

GUAM ENVIRONMENTAL PROTECTION AGENCY

AHENSIAN PRUTEKSION LINA'LA GUAHAN

FELIX P. CAMACHO P.O. Box 22439 GMF • BARRIGADA, GUAM 96921

GOVERNOR OF GUAM TEL: 475-1658/9 • FAX: 477-9402

MICHAEL W. CRUZ LT. GOVERNOR OF GUAM

February 12, 2010

Joint Guam Program Office c/o Naval Facilities Engineer Command, Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134 ATTN: Guam Program Management Office Email: www.guambuildupeis.us

SUBJECT: Comments on Draft EIS/OEIS, Guam and CNMI Military Relocation

Dear Madam/ Sir:

Hafa Adai! Guam Environmental Protection Agency is pleased to submit our comments on the Draft EIS/OEIS for the Guam and CNMI Military Relocation.

We reviewed this exceedingly large Draft EIS/OEIS that was released on November 21, 2009 within the 90 days allowed time. Your cooperation in addressing our comments in the upcoming Final EIS/OEIS is greatly appreciated.

Please contact Jesse Cruz, Environmental Monitoring & Surveillance Administrator, or Ray Calvo, Planner IV, at (671) 646-1658/28 if there are questions on these comments or more information is needed. Si Yu'us Ma'ase.

Sincerely,

LORILEE T. CRISOSTOMO

Administrator

Enclosure

"ALL LIVING THINGS OF THE EARTH ARE ONE"

Military_Bulldup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol			Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 001	ES- 4	ES- 5		Guam EPA		Proposed Actions include a) Marine - Construction of infrastructure and facilities; b) Navy - Construction of new wharf with shoreside infrastructure; c) Army - Construction of infrastructure and AMTF	
J-001-0	-002				Guam EPA		Each of the Volumes of the DEIS describe general activities related to the main components of the <i>Proposed Actions</i> described above. Considering the lack of specific information on all the materials to be used, the impact of solid, toxic and hazardous waste management has not been providedand therefore connot be adequately evaluated for each of the specific activities described in the Volumes. Therefore, to facilitate clarity and consistency, Guam EPA recommends that a <u>separate</u> Solid Waste Management & Disposal Plan. This Plan must include a waste composition study to address the anticipated wastes associated with each activity, it's impact to the existing management options, and how will the waste streams be managed.	
J-001	-003		ES- 27	Figure ES-6a	Guam EPA		According to Figure ES-6a, "Basic alternative Use existing Navy Apra Harbor Landfill Until New Public Landfill at Layon is Ready. However, both facilities are not permitted to accept all wastes at their respective locations. Although the Layon Municipal Solid Waste Landfill (MSWL) was permitted in November 23, 2009, the facility, once operational, is only permitted to accept residential and commerical solid waste. The Layon MSWL is not permitted to accept certain wastes streams such as, but not limited to, hazardous waste, asbestos, lead-abatement wastes, construction & demolition wastes, and green wastes.	
J-001	-004				Guam EPA		Based on the <i>Proposed Actions</i> , the <i>Plan</i> must address at a minimum, but not limited to, the following waste streams:	

Comments Page 1 of 41 Military_Buildup_-Guam EPA

J-001-001

Thank you for your comment. The proposed actions are complex, interrelated, multi-service proposals and are not discrete individual actions of the different military services. The National Environmental Policy Act specifically prohibits segmentation of a large proposal into smaller actions for environmental analysis. As this EIS shows, the proposed and related actions clearly are having effects on the same resource areas and must be considered together to determine the full potential for environmental effects. Further, a comprehensive analysis helps define the best mitigation and management practices to lessen adverse effects.

J-001-002

Thank you for your comment. DoD has prepared the Guam Solid Waste Utility Study that looks at the existing and projected solid waste volumes generated from the future Marine Corp buildup. Estimates for this Utility Study were developed using Marine Corps Base (MCB) Hawaii, Kaneohe Bay (KB) solid waste characterization analysis. Solid waste generation activities for military installation on Guam and MCB Hawaii-KB are similar. Both military installations have similar facilities including maintenance shops, administrative officers, commissary and exchange facilities, fast-food establishments, club operations, family housing and unaccompanied personnel housing. The results of the solid waste characterization study will be incorporated into the FEIS.

The DoD has also prepared a Construction and Demolition (C&D) Debris Reuse and Diversion Study which addresses the anticipated waste streams during the demolition of old buildings and construction of new facilities identified in the EIS. The study also addresses green waste that will be generated from clearing many acres of vegetation. The goal of the study is to divert 50% of the C&D debris by the end of fiscal year 2015.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder	
J-001	-004				Guam EPA		Construction & Demolition Debris - Options must be described for the management of these wastes either for land disposal, reuse or recycling. As a reminder, all the storage, processing, and disposal of construction & demolition debris requires a Guam EPA-Issued solid waste management facility permit proceenings to any action taken. Moreover, the transportation of construction and demolition debris must be from a company with a valid Solid Waste Collection Permit.		
					Guam EPA		Green Waste - In anticipation of the vegetative wastes generated from clearing and grading, beneficial use options must be described for the management of this waste stream.		
					Guam EPA		Municipal Solid Waste - The Plan must include clear instructions that all muncipal solid wastes generated from temporary workers, military personnel, military dependants, and support services are to be disposed only at Guam EPA-permitted Solid Waste Management Facilities.		

Comments Page 2 of 41 Military_Buildup_-Guam EPA

The non-DoD project solid waste volumes will be handled in accordance with the existing Guam Integrated Solid Waste Management Plan (ISWMP). GBB is expediting the closure of Ordot and the opening of Layon in the most expeditious manner possible.

DoD is in the process of updating the military Integrated Solid Waste Management Plan (ISWMP) to reflect how waste will be managed now and in the future. The updated DoD ISWMP will include any new information from studies and reports that have been conducted as part of the NEPA process.

J-001-003

Thank you for your comment. DoD acknowledges that certain waste streams will not be allowed at Layon Landfilll including hazardous waste, asbestos, lead-abatement wastes, construction and demolition (C&D) debris, green wastes, corrugated cardboard, junk vehicles, and white goods. All solid wastes will be disposed in accordance with applicable federal and Guam regulations.

C&D debris will continue to be disposed at the Navy Hardfill and asbestos will be disposed at Navy Sanitary Landfill at Apra Harbor.

J-001-004

Thank you for your comment. DoD is in the process of updating the military Integrated Solid Waste Management Plan (ISWMP) to reflect how waste will be managed now and in the future. The updated DoD ISWMP will include any new information from studies and reports that have been conducted as part of the NEPA process. Waste streams such as waste munitions; hazardous waste; ship-generated hazardous waste and sewage; dredged spoils will not be covered by the ISWMP. These waste streams will be addressed in other plans or service directives.

Military Buildup -Guam EPA DEIS Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 004 1	2.2. 4	2- 15		Guam EPA		4. Waste Munitions - The Plan must describe the management of waste munitions generated from training activities related to the Small Arms Range Complex, Machine Gun Multi-Purpose Range, Hand Grenade Range, and Demolition Range, to include at a minumum, but not limited to, disposal practices of spent casings, scheduled inspections, and periodic sampling and analysis to identify impacts, if any, to the environment and biota.	
					Guam EPA		 Hazardous Waste - The Plan must describe the management of all hazardous waste generated, as defined under RCRA C, and meet all the requirements specified under Guam's Hazardous Waste Management Regulations. 	
					Guam EPA		6. Ship-Generated Waste and Cargo Residues - The Plan must describe the management of all ship-generated waste, that is, any kind of waste, including sewage, and residues other than cargo residues, which are generated during the operation of a ship and cargo-associated waste. The disposal of this waste stream may only be offered to reception facilities suitable for receiving ship-generated waste or cargo residues which have a valid Guam EPA Solid Waste Management Facility permit. This shall include fixed facilities as well as floating and mobile units. Wastes classified as a Hazardous Waste must be managed according to Guam's Hazardous Waste Management Regulations.	

Comments Page 3 of 41 Military_Buildup_-Guam EPA

The Navy is preparing a Recycling and Solid Waste Diversion Study for DoD Bases, Guam that has established a diversion goal of 50 percent, not including construction and demolition debris. The Study is considering the following alternatives: 1) DoD would construct two refuse transfer facilities, one in northern Guam and one in Southern Guam; 2) DoD would implement a source separation recycling program at all facilities; 3) DoD would construct recycling center(s); and 4) DoD would construct a materials resource recovery facility.

Additionally, the Navy is preparing a Construction and Demolition (C&D) Debris Reuse and Diversion Study for DOD Bases, Guam that addresses waste characterization, processing, recycling and disposal of construction debris. Information from this study will be used to update the FEIS.

The study is considering the following alternatives: 1) Contractors would continue to process all C&D debris, and DoD would construct a composting facility to process green waste and 2) DoD would construct a C&D debris central processing facility and a composting facility to process green waste.

Through project specific contractual requirements, DoD contractors would be required to process and divert 50% of C&D debris that is generated on each project. Another alternative would be for the DoD to construct a central processing facility that would be used to recover and reuse or recycle scrap metal, concrete (without lead-based paint), asphalt concrete, and untreated wood. Contractors would be required to haul C&D to this facility. Based on the C&D debris composition assumed in the study, the Navy will be able to achieve a C&D debris waste diversion goal of greater than 50% by the end of fiscal year 2015. A site for the central processing facility is currently being evaluated but will most likely be located in northern Guam. Disposal of C&D debris that is not divertible or recyclable will be disposed at the Navy Hardfill at Apra

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	004				Guam EPA		7. Medical & Dental Wastes - The Plan should address the management of common wastes associated with this activity, such as, but not limited to chemical solutions, x-ray processing wastes, sterilizing solutions (ex. Glutaraldehyde and orthophthaldehyde), formalin, blohazardous wastes, lead foil film backing, mercury, scrap dental amalgam, fluorescent tubes and batteries.	
					Guam EPA		Dredged Spoils - The Plan should address the assessment and management of dredged spoils in a way that will prevent pollution of the marine environment. The Plan must include the sampling and analysis of substances that are toxic, persistent or liable to accumulation in biological materials or sediments. in additio, the Plan must include all background or historical data referenced to support the assumptions made. The characterzation of this waste stream, whether through upland placement, benicial use, or ocean disposal.	
					Guam EPA		Waterfront Wastes - The Plan must address the management of wastes generated from equipment cleaning & biohazards	
					Guam EPA		 Special Wastes - The Plan must address the management of wastes tires, white goods, brown goods, junk vehicles, ferrous and non-ferrous wastes. 	
							RECOMMENDED ACTIONS:	

Comments Page 4 of 41 Military_Buildup_-Guam EPA

Harbor. The study also evaluates the construction of a composting facility to handle green waste generated by land clearing activities required for new development.

Military_Buildup -Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	-004						 Based on the insufficient information provided on wastes generation, I am recommending <u>NO ACTION</u>. 	
							b. Although DoD has expressed that it eventually will be a rate paying customer to the Government of Guam, DoD should be tasked to contribute to the construction and development of the Layon Municipal Solid Waste Landfill prior to operation. The percentage of contribution to the construction and development of the Layon MSW Landfill should be based on the amount of waste generated from DoD and non-DoD proposed action related projections.	
J-001	- 005	ES	1	17-25	Guam EPA		Why aren't three separate, less unwieldly EIS's being done for the individual Army, Navy and Marines actions? The Air Force is also expanding facilities on Guam which must relate to and coordinate with the other three branches, but the Air Force actions are being treated separately under NEPA.	
	1	ES	1	17-25	Guam EPA		Why aren't three separate, less unwieldly EIS's being done for the individual Army, Navy and Marines actions? The Air Force is also expanding facilities on Guam which must relate to and coordinate with the other three branches, but the Air Force actions are being treated separately under NEPA.	
J-001	- 006	ES	52	Populatio n	Guam EPA		Construction population impacts of workers depends on how many are H-2. Numbers of preferred US or FAS citizen workers should be increased over 472. XXX just one sector?	
	1	ES	56	Populatio n	Guam EPA		Population, Labor Force, Housing Demand, Public Services, etc. impacts should be much higher if preferred US and FAS workers are employed rather than H-2 workers. XXX just one sector?	

Comments Page 5 of 41 Military Buildup - Guam EP/

J-001-005

Thank you for your comment. The proposed actions are complex, interrelated, multi-service proposals and are not discrete individual actions of the different military services. The National Environmental Policy Act specifically prohibits segmentation of a large proposal into smaller actions for environmental analysis. As this EIS shows, the proposed and related actions are having effects on the same resource areas and must be considered together to determine the full potential for environmental effects. Further, a comprehensive analysis helps define the best mitigation and management practices to lessen adverse effects.

J-001-006

Thank you for your comment. On-island residents would be hired if they are qualified for the positions during the construction and operations periods. Because the number of qualified on-island residents would likely be exhausted, especially in the anticipated years of construction (2010 through 2016), thousands of H2B visa foreign workers are anticipated. See the detailed discussion on workers in Section 4.3 of the SIAS.

Your comments are in agreement with the analysis in the SIAS, beneficial economic impacts would likely be greater if more FAS and U.S. Mainland workers were employed. The SIAS identifies approximate numbers of civilian employees to be hired by the DoD and estimates their origin; specific hiring procedures are not addressed in the DEIS. U.S. workers on the mainland and in Hawaii will likely not be a large labor pool because of the lower wages paid in Guam for construction workers (excludes supervisory and professional engineering positions).

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 007 1	ES	ES- 34	ES-4	Guam EPA		Roadway noisi would be a significant impact in the north and central areas of Guam. Mitigation was not provided. Mitigation is a critical part of the NEPA process and impacts need to be mitigated.	
J-001	- 008 1	ES	ES- 34	ES-4	Guam EPA		Overland flight pathnoise from aircraft operations/airdropsto and from AFB,NWF,Landing Zones and Orote would be a significant impact to residents and endangered species especially during the off-hours operations. This potential noise impact was not addressed in the DEIS. No alternatives were provided. No mitigation was provided cumlative noise impacts would also need to be addressed.	
J-001	- 009 1	2	12	3-5	Guam EPA		Explain why mechanical dredging is environmentally better or worse than hydraulic dredging. Would hydraulic dredging create less silt and sediment impacts at dredge impact sites, if proper dewatering to protect the marine waters is practiced?	
J-001	- 010	2	12	14 &15	Guam EPA		Beneficial uses can be found related to the numerous activities ongoing and proposed on DOD bases on Guam. Also beneficial uses outside of military activities must be considered. There must be consideration of use as land fill cover, road base, rehabilitation of old quarries, fill for port expansion, fill for adaptation to sea level rise, etc. Beneficial uses must be investigated and discussed in the EIS. Information on the quality of materials to be dredged and their appropriate beneficial uses is necessary in the EIS.	
J-001	- 011	2	12	24 & 25			What are the levels of contamination in recently dredged materials from Inner Apra Harbor and near Bravo Wharf that are in confined areas on Navy Base now? Are there restrictions on their re-use and have beneficial uses been planned for them? Can they be included in beneficial uses to be identified for dredging actions addressed in this EIS?	
J-001	- 012 1	2	15	40	Guam EPA		Are the "high value munitions, being stored at NMS? Are there special safety arcs and restrictions on them?	
	Co	mm	ents				Page 6 of 41 Military	_BuildupGuam l

J-001-007

Thank you for your comments. It is acknowledged that no mitigation measures were proposed for traffic noise impacts at most locations in the north and central regions of Guam. The noise abatement analyses for the north and central regions presented in Volume 6, Chapter 8 (pages 8-21 to 8-35) of the FEIS indicate that most locations where impacts would occur require abatement measures that would not be feasible. This is because the affected areas consist of residential areas where residences have driveways that provide direct access to the roads, thereby resulting in issues of sound wall discontinuity. For a sound wall to provide sufficient noise reduction, it must be high enough and long enough to shield the receptor from the road. Access openings in the noise barrier for streets, driveways, and maintenance severely reduce the effectiveness of the noise barrier to the point that it would not be feasible to construct a barrier. Furthermore, for most of the locations, there are not enough residences per area to allow a noise barrier to be reasonable due to the cost per benefited receptor. FHWA and Guam DPW policies provide that only abatement measures that have been determined to be feasible and reasonable would be incorporated into road projects. It should be noted, however, that the analyses indicate that sound walls for one out of 16 locations in the north region and nine out of 48 locations in the south region met the feasible and reasonable criteria for construction. This will be further verified during the design process.

J-001-008

Thank you for your comment. Noise associated with airlift, airdrop, and landing zone operations are described in Volume 2, Section 6.2 and referred to as Aviation Training. Flight paths from Andersen AFB to Northwest Field (NWF) are included in the noise contours shown on Figure 6.2-1. All other flight paths from Andersen AFB to the other training areas would occur over water. Aviation noise as a result of the USMC Relocation to Guam are such that mitigation is not required.

Military_Buildup_-Guam EPA DEIS Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	013	2	22	20-22	Guam EPA		Explain why mechanical dredging is claimed to be environmentally worse than hydraulic dredging. Experience with dredging to proposed depths for CVN use, using mechanical dredging, as at Kilo Wharf, proves that silt curtains are not able to contain silt at depths over 30 feet. Wouldn't hydraulic dredging create less silt and sediment impacts at dredge impact sites at these depths, if proper dewatering to protect the marine waters is practiced? If so, it should be the preferred method.	
J-001	- 014 1	2	33	ты	Guam EPA		In the peak construction year of 2014, why does the DEIS propose over 30,000 of the needed construction workers will not be from off-Guam? Is this possible, to have that many local construction workers?	
J-001	- 015 1	2	35	31	Guam EPA		If aggregate is not being imported, what quarries will supply this? What quantities will be needed? Will any quarries on DOD land be used? What are impacts of the increased quarrying activity?	
J-001	016 1	3	6	4	Guam EPA		How far off shore would he SDZ extend? How many acres of submerged land would be included?	
J-001	- 017	3	15	28	Guam EPA		Was the option of improving the removal of TCE from water produced at the Maui infiltration tunnel in Tumon consideredand renewing use of this highly productive DOD facility? This could re-establish use of a dependable water source while removing contaminants from Gami's Northern Aquifer (established as a sole source aquifer by US EPA). Carbon filtration, as used at a Guam International Airport well may need to replace the existing AAFB air stripping facility for TCE removal.	
J-001	-018 1	4	3	BMP 7 to 21	Guam EPA		Aren't Marine Bio. Resources also protected by these BMP's?	

Comments Page 7 of 41 Military Buildup - Guam EPA

Please refer to Volume 7, Chapter 4 for more details about the cumulative impact analysis.

J-001-009

Thank you for your comment. The differences between the environmental effects of mechanical and hydraulic dredging are discussed in Chapter 2, Volume 4 and Appendix D of the EIS. Mechanical dredging involves use of a clamshell or fixed bucket that excavates the dredge sediment from the harbor floor and then carries the sediment in the full bucket through the water column before lifting the bucket out of the water and placing the dredged sediment in a nearby barge or scrow. During this movement, a small fraction of the collected sediment will escape from the bucket and create suspended sediment in the lower and higher levels of the water column. On the other hand, a hydraulic dredge works solely on the harbor floor and any suspended sediment will emanate only in the lower portion of water column. As a result, the plume of suspended sediment is generally greater with use of conventional clam shell bucket as compared with a hydraulic dredge. However, use of hydraulic dredging is generally limited to soft bottom sediment on relatively flat surfaces. Mechanical dredging, which has historically been used in Apra Harbor, was chosen as the dredging method for evaluating environmental impacts as it presents the most adverse impact scenario.

A sediment plume is an inevitable effect of in-water construction activities. The Navy proposes to minimize sedimentation by using best management practices such as silt curtains and operational controls of dredging equipment. Final mitigation measures for all dredging activities will be determined and agreed upon during the permit phase of the projects.

J-001-010

Thank you for your comment. The DoD is considering several options for

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Сһ	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	019 1	4	3	BMP 19	Guam EPA		Besides slit curtains, bubble curtains and alternative dredging techniques should be considered	
J-001	- 020	4	5	BMP 32, 36 &37	Guam EPA		Aren't Marine Bio. Resources also protected by these BMP's?	
J-001	- 021 1	All			Guam EPA		In all activities creating impervious areas from buildings, roads, docks, parking lots, etc., stormwater must be managed on site and pollutants removed before it is discharged to any surface waters.	
J-001	- 022 1	ES	ES- 34	ES-4	Guam EPA		Roadway noisl would be a significant impact in the north and central areas of Guam. Mitigation was not provided. Mitigation is a critical part of the NEPA process and impacts need to be mitigated.	
J-001	- 023 1	ĒS	ES- 34	ES-4	Guam EPA		Overland flight pathnoise from aircraft operations/airdropsto and from AFB,NWF,Landing Zones and Orote would be a significant impact to residents and endangered species especially during the off-hours operations. This potential noise impact was not addressed in the DEIS. No alternatives were provided. No mitigation was provided cumlative noise impacts would also need to be addressed.	
J-001	- 024 1	All			Guam EPA		The Socio-Economic Impact Study(SEIS) done for these proposed actions apparently has been completed for some time and its results should be added to the DEIS and the SEIS should be appended to the DEIS.	
J-001	- 025	2	137	2	Guam EPA		Why can't dredged material from the CVN project be used beneficially for berms at firing ranges?	

Comments Page 8 of 41 Military_Buildup_-Gusm EPA

disposal of dredged material, including upland placement, ocean disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts from using dredged material for reuse projects will be conducted during the permitting phase.

J-001-011

Thank you for your comment. Text includes a discussion of recent sediment sampling results. Text added regarding the priority to utilize dredged material (DM) for beneficial purpose including the uses noted by the commenter such as landfill cover, road base, backfill, beach renourishment if suitable, etc. Beneficial reuse is preferred and would be examined on a case-by-case basis. Receiver of DM would need to be responsible for disposal or reuse of DM.

J-001-012

Thank you for your comment. Please refer to Volume 9, Appendix D, Project Description Technical Appendix, Munitions, for a discussion of the munitions and constituents of concern associated with the proposed ranges.

J-001-013

Thank you for your comment. The differences between the environmental effects of mechanical and hydraulic dredging are

Military_Bulldup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	026 2	2	97	41	Guam EPA		Beach landings have not been on-going at Dadi and Tipalao, except for a trial LCAC landing years ago that proved damaging. They should not be approved nor undertaken there because of impacts to marine life.	
J-001	- 027	2	111	10	Guam EPA		The dredged material also might be used beneficially for berms at firing ranges. Can quantities needed and quality related to expected dredged material be discussed or assessed?	
J-001	- 028 2	2	113	25	Guam EPA		What is a "typical Guam storm event", used as a basis of design? A 25-year storm?	
J-001	- 029	3	3- 39	line 35	Guam EPA		The upland placement sites are enclosed by earthen berms approximately 16 to 30 ft in hieght. Considering 5-sites for upland placement, this will require large volume of materials (Table D-1 Vol 9 Appendx D: Approx. vol=1.8 million cu. yd.) to be used as earthen berms; where is the source or supply be coming from? It was mentioned in line 37 that no soil or fill would be brought to site for construction, is this means that earthen berm will be taken at the site? EIS must clearly identify the source in order for the reviewer to fully figure out the consequences.	
J-001	- 030	3	3- 20		Guam EPA		South Finegayan; the wastewater collection system is a gravity sewer system connected to GWA ww collection system. EIS must consider collection system assessment from downline of connection point (GWA line) existing collection system might not capable of handling additional flow like; pump station design capacity, existing pipeline design and generator capacity. In relation to collection system and treatment facility's, who will be responsible in the operation and mantenance. If DoD will utilize NDWWTP is there any agreement between DoD and GWA regarding operation and maintenance of both collection systems and treatment systems, EIS need to specify to ensure that proper operation and maintenance of the system will be applied to ensure that overflow problems and public health issues will be eliminated.	

Comments Page 9 of 41 Military_Buildup_-Guam EPA

discussed in Chapter 2, Volume 4 and Appendix D of the EIS. Mechanical dredging involves use of a clamshell or fixed bucket that excavates the dredge sediment from the harbor floor and then carries the sediment in the full bucket through the water column before lifting the bucket out of the water and placing the dredged sediment in a nearby barge or scrow. During this movement, a small fraction of the collected sediment will escape from the bucket and create suspended sediment in the lower and higher levels of the water column. On the other hand, a hydraulic dredge works solely on the harbor floor and any suspended sediment will emanate only in the lower portion of water column. As a result, the plume of suspended sediment is generally greater with use of conventional clam shell bucket as compared with a hydraulic dredge. However, use of hydraulic dredging is generally limited to soft bottom sediment on relatively flat surfaces. Mechanical dredging, which has historically been used in Apra Harbor, was chosen as the dredging method for evaluating environmental impacts as it presents the most adverse impact scenario.

A sediment plume is an inevitable effect of in-water construction activities. The Navy proposes to minimize sedimentation by using best management practices such as silt curtains and operational controls of dredging equipment. Final mitigation measures for all dredging activities will be determined and agreed upon during the permit phase of the projects.

J-001-014

Thank you for your comment. It should be noted that this is an unconstrained estimate representing the maximal numbers of construction workers. The table referred to in your comment does not call for 30,000 Guam construction workers. The table (Table 2.7-7, in Volume 1, Chapter 2 of the DEIS) calls for 2,668 local Guam construction workers during the peak year of 2014. The table points out that 21,041 total construction workers would be required to work on

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 031 6	3	3- 54		Guam EPA		Desalination with reverse osmosis was choosen as the long term alternative for water supply. Where should be the planned point of dischage for any weste or residue from treatement process?	
J-001	- 032 6	2	2- 84		Guam EPA		Item 2.3.7.1 Build new DoD stand alone secondary treatment plant and construct a new ocean outfall. The planned location of outfall (based on page 2-89 map) is within the western coastline, GEPA is not confident to allow additional outfall to the two existing outfall located close to each other.	
J-001	- 033	2	2-6	Table 2.1- 1	Guam EPA		Item #7 LID- In consideration that Northern Watershed are mostly covered of DoD land and within the Ground Water Sole Source Aquafer, it must also consider Watershed protection management approach by: 1. Participating in the development of watershed management plan and implement and adopt specific watershed protection strategies. 2. Better site design or effective land use planning techniques to reduce or shift impervious cover. 3. Land conservation and other in order to ensure or obtain conservation soften to ensure or obtain conservation of the most important water resources goals	
J-001	- 034 2	2	115	20	Guam EPA		Would hydrology supporting nearby wetlands or mangroves be impacted by the road and facilities?	
J-001	- 035	4	53		Guam EPA		Throughout Section 4.2, for each resource concern, the DEIS simply notes that BMP's will be used and laws followed and therefore there will not be significant impacts and that impacts and practices will be similar to other alternatives or other sites, keeps being repeated without specifying the impacts and practices and mitigation for specific resources and sites. This repetition implies that the impacts, BMP's and mitigation for actions at each site were not adequately assessed in the preparation of this DEIS and this coverage in the DEIS is meaningless. Although issues may be addressed in other chapters, this makes the DEIS difficult for reviewers to evaluate.	

Comments Page 10 of 41 Military_Buildup_-Guam EPA

construction projects related to the proposed action in 2014 and that 18,373 (87%) of them are expected to come from off-island. The number of jobs filled by Guam residents is based on the qualified on-island workers available; it is anticipated that the number of qualified Guam construction workers would be exhausted and off-island workers would need to fill the required labor demand.

J-001-015

Thank you for your comment.

About 141,500 tons of aggregate are being imported from Japan for use only on roadways. Existing quarries on Guam will provide the rest of the fill required for projects described in the DEIS. Where ever possible, cut will be reused as fill at project sites to minimize need for fill to come from quarries. The existing quarries can support fill requirements and are not expected to be negatively impacted by increased activity.

J-001-016

Thank you for your comment. The acreage of Surface Danger Zone (SDZ) over submerged lands for Training Range Complex Alternative A is approximately 4,439 acres and for Alternative B, approximately 6,003 acres. These values are in the Draft EIS Volume 2, Section 2.3.

The greatest distance from coastline to outer edge of the SDZ for Alternative A is approximately 3.3 miles, and for Alternative B, approximately 3.2 miles. This information is added to the Final EIS in the same section as the SDZ acreage.

J-001-017

Thank you for your comment. Rehabilitation of the Tumon Maui well was

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 036 2	4		12 &13	Guam EPA		"Nearshore" waters averaging 10 meters depth does not relate to Guam, where where reef flats and steep reef slopes predominate. Rewrite this.	
J-001	- 037 2		13	G-2 and G-3	Guam EPA		The mapped GWMPZ is no longer applicable under Guam law. Protected groundwater area is now recognized as land over the entire Northern Guam Aquifer, from coastline to coastline, not an arbitrarily mapped zone that excluded coastal lands. This removal of the application of the earlier GWMPZ mapped boundaries is based on Guam Public Law.	
J-001	- 038	4	19	28 &29	Guam EPA		All of Andersen AFB lies over the Guam Northern Aquifer. The mapped GWMPZ is no longer applicable under Guam law. Protected groundwater area is now recognized as land over the entire Northern Guam Aquifer, from coastline to coastline, not an arbitrarily mapped zone that excluded coastal lands. This removal of the application of the earlier GWMPZ mapped boundaries is based on Guam Public Law.	
J-001	- 039 2	1	19	33 &34	Guam EPA		TCE and PCE contaminants from previous Andersen AFB discharges remain in the Guam Northern Aquifer and remain a risk. AAFB has stopped the active removal of this contaminant, which it had done in recent years. To allow safe expanded production of well water to meet future needs, the DOD should not leave such contamination in the groundwater for those using this water to clean up or limiting the availability of safe groundwater to develop. Instead, the DOD should remove these toxics and allow safe water to be produced again in the currently contaminated areas.	
J-001	- 040 2	4	10	10	Guam EPA		Provide a map showing NGLA subbasins locations.	

Comments Page 11 of 41 Military_Buildup_-Guam EPA

considered by DoD. This option was not carried through for further analysis because the sub-basin where this well is located does not have any remaining available yield considering the 1991 sustainable yield estimate and the combined production well capacity in the sub-basin.

J-001-018

Thank you for your comment. Suggested section/table will be reviewed and revised accordingly.

J-001-019

Thank you for your comment. These and other dredge BMPs and potential mitigation measures are presented in Tables 2.1-1 and 2.2-1, respectively.

J-001-020

Thank you for your comment. This table will be revise for the FEIS.

J-001-021

Thank you for your comment. DoD and regulatory agencies are equally concerned about preventing contamination of surface waters and groundwater (particularly drinking water aquifers). The EIS describes numerous programs and actions that will be taken to protect surface waters and groundwater from stormwater runoff. Construction of new facilities will use Low Impact Development (LID) principles to the extent practical. LID is a design philosophy that seeks to reduce the impact to the environment from new construction projects through the reduction of impervious surfaces. LIDs principles incorporate the design of facilities with the use of native vegetation, pervious (porous) surfaces to reduce storm water runoff and encourage recharge of groundwater, and water conservation. DoD is currently conducting a LID study that will identify specific types of alternative designs that can be incorporated into the construction of facilities associated with the buildup.DoD is also

Military Buildup -Guam EPA DEIS Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder	
J-001	- 041 2	4	41	9 &10	Guam EPA		Change sentence. Note the industrial uses still on-going, including power production, ship repair, large scale fuel transfer and storage,atc.		
J-001	- 042 2	4	41	15	Guam EPA		Surface flow westward is not continuous but varies with wind direction.		
J-001	- 043 2	4	44	10	Guam EPA		ODMDS precluded from proposed EPA designated site?		
J-001	- 044 2	4	45	3	Guam EPA		Aren't Atantano, Sasa, Laguas and Aguada rivers flowing through Navy property?		
J-001	- 045 2	4	49	26	Guam EPA		What is correct capacity?		
J-001	- 046 2	4	53	25 & 26	Guam EPA		Direct and indirect impacts can occur during construction and during operations.		
J-001	- 047 2	4	67	26 & 27	Guam EPA		Large depth to the groundwater lens does not ensure contaminants do not quickly enter the Sole Source Aquifer in Guam's Karst geology.		

Comments Page 12 of 41 Military_Buildup_-Guam EPF

preparing a stormwater pollution prevention plan (SWPPP) and will apply for permits that regulate stormwater discharges during construction. The permit and plan is focused on reducing the amount of earth and soil that is exposed to stormwater during earth-disturbing activities (such as land clearing and grading), providing stabilization of soils during construction through the use of ground covers, and sediment ponds and traps/screens to reduce pollutants getting into storm runoff and from percolating into the ground. These plans also have specific requirements for containment of potential pollutants at construction sites (such as storage areas for equipment fuel). Lastly, DoD is developing a construction and demolition (C&D) waste management plan in consort with the stormwater construction plan that calls for the use of mulch on exposed soils, mulch that will be generated during the clearing of trees and low growth during land clearing activities. Once construction is complete, a SWPPP will be developed to control stormwater runoff and infiltration from base operations. This is being done on a regional DoD Guam-wide scale, and has the involvement of Guam EPA.

J-001-022

Thank you for your comments. It is acknowledged that no mitigation measures were proposed for traffic noise impacts at most locations in the north and central regions of Guam. The noise abatement analyses for the north and central regions presented in Volume 6, Chapter 8 (pages 8-21 to 8-35) of the FEIS indicate that most locations where impacts would occur require abatement measures that would not be feasible. This is because the affected areas consist of residential areas where residences have driveways that provide direct access to the roads, thereby resulting in issues of sound wall discontinuity. For a sound wall to provide sufficient noise reduction, it must be high enough and long enough to shield the receptor from the road. Access openings in the noise barrier for streets, driveways, and maintenance severely reduce the effectiveness of the noise barrier to the point that it would not be feasible to construct a barrier. Furthermore, for most of the locations,

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line. Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 048	4	68	35 to 42	Guam EPA		The beneficial uses of dredged materials are being completely ignored, but should receive highest priority. This DEIS must make more of an effort to plan for and assess and prioritize beneficial uses for dredged material. Even fine sediments can be treated to use as well-performing building materials. This and other uses, such as landfill cover, construction fill, firing range berms, rehabilitation of quarries, etc. need to be seriously considered in this DEIS, and not just military project uses but beneficial uses on other Guam or regional projects. E.g., could the ships bringing in bulk aggregate or construction materials to Guam leave Guam carrying dredged material to Yap where the State Government needs fill for construction projects but lacks it? Or, is the Navy agreement with Port Authority of Guam to provide dredged material for dock construction still valid? Why isn't this seriously evaluated in the DEIS? Also, with projected sea level rise, shouldn't dredged material be incorporated into adaptation plans to raise land levels to avoid coastal flooding?	
J-001	- 049 2	4	57	18 & 19	Guam EPA		Would the increased pumping of new production wells cause a possible significant impact on the GNLA, since the dynamics of this aquifer are not yet satisfactorily understood?	
J-001	- 050	4	67	19 to 27	Guam EPA		Nearshore waters, Operations. This is another example of skipping discussion of review of what will cause impacts, such as ammunition entering the marine environment. Throughout Section 4.2, for each resource concern, the DEIS simply notes that BMP's will be used and laws followed and therefore there will not be significant impacts and that impacts and practices will be similar to other alternatives or other sites. This keeps being repeated without specifying the impacts and practices and mitigation for specific resources and sites. This repetition implies that the impacts, BMP's and mitigation for actions at each site were not adequately assessed in the preparation of this DEIS and this coverage in the DEIS is meaningless. Referring back to partial coverage in another chapter does not serve reviewers adequately.	

Comments Page 13 of 41 Military_Buildup_-Guam EPA

there are not enough residences per area to allow a noise barrier to be reasonable due to the cost per benefited receptor. FHWA and Guam DPW policies provide that only abatement measures that have been determined to be feasible and reasonable would be incorporated into road projects. It should be noted, however, that the analyses indicate that sound walls for one out of 16 locations in the north region and nine out of 48 locations in the south region met the feasible and reasonable criteria for construction. This will be further verified during the design process.

J-001-023

Thank you for your comment. Please see response to J-001-008.

J-001-024

Thank you for your comment. The draft of the Socioeconomic Impact Assessment Study (SIAS) was completed just prior to the DEIS and is the basis for the socioeconomic impact assessment in the DEIS. The study is available and included as Appendix F in Volume 9 of the DEIS.

J-001-025

Thank you for your comment. The DoD is considering several options for disposal of dredged material, including upland placement, ocean disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	051 2	4	82	Tbl. 4.2.1.	Guam EPA		Apra Harbor Construction. There is no mention of permanent removal of large areas of living corals and loss of a unique marine habital area that exists no where else in US waters.	
	2	4	89	ТЫ. 4.2	Guam EPA		Apra Harbor Construction. There is no mention of permanent removal of large areas of living corals and loss of a unique marine habitat area that exists no where else in US waters.	
J-001	- 052 2	4	94		Guam EPA		Stormwater infrastructure to be designed for a 100 year storm would provide a margin higher than normal but may be advisable for all construction on Guam to accommodate for unknown increases due to climate change. Will the DEIS contain recommendations that SOW for final designs should allow for estimates in climate change regarding more intense winds and rains and sea level rise?	
J-001	- 053 2	4	95	13	Guam EPA		What will be impacts on Groundwater from increased new DOD wells? Why isn'tbetter information on the response of the NGLA to increased pumping at chosen new well locations and on the potential of GWUDI developed and used for planning water developments? Without such information shouldn't worst case scenarios be assessed in this DEIS?	
J-001	- 054 2	4	98	Tbl 4.2-3.	Guam EPA		RIe 15 Operations. Nearshore. What about impacts of ammunition entering the marine environment?	
J-001	- 055 2	16			Guam EPA		Were the data and information from the John Knox Social and Economic Impact Study contracted by the DOD incorported in the DEIS? This appears to be at least partially done. This study should be referenced and appended.	

Comments Page 14 of 41 Military_Buildup_-Guam EP/

from using dredged material for reuse projects will be conducted during the permitting phase.

J-001-026

Thank you for your comment. The proposed action does not include beach landings at Dadi or Tipalao beaches.

J-001-027

Thank you for your comment. The DoD is considering several options for disposal of dredged material, including upland placement, ocean disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). An estimated quantity for the berms is provided in Section 2.3.5 of Chapter 2, Volume 4. Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts from using dredged material for reuse projects will be conducted during the permitting phase.

J-001-028

Thank you for your comment. A Low Impact Development and Comprehensive Drainage Study has been completed for the preferred alternative of the proposed main cantonment since the Draft EIS was published in November 2009. Information from this study has been used to update the referred issue in Volume 2. Additionally, the full summary of the study is included in the appendix (Volume 9) of the Final EIS.

J-001-029

Thank you for your comment. Berms for upland placement of dredged

Military Buildup -Guam EPA DEIS Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 056 2	16	29	10 to 16	Guam EPA		Rewrite Guam Environmental Protection Agency section, adding the sixth Division of Energy, Sustainable Development and Outreach.	
J-001	- 057 2	16	33	17 to 28	Guam EPA		Quality of Life. More expanded details and discussion are needed including impacts on island-wide transportation, water, wastewater and power infrastructure.	
J-001	- 058 2	17			Guam EPA		Throughout the volumes of the DEIS, projected increases of toxic materials due to the expansion of DOD activities are noted and DRMO current general capacities are expressed to handle hazardous wastes, but needed specific additional facilities and resources to handle increases are not addressed. Simply stating that increased capacity may be needed is not sufficient. Plans must be made and facilities and resources put into place before the new actions covered by this DEIS begin.	
J-001	- 059 2	17	114 8	ТЫ 17.2- 14	Guam EPA		Two Hazardous Material Locations are mapped along Route 1 near Ysengsong Road intersection, but these are not labelled, named or described.	
J-001	- 060 2				Guam EPA		Why were exsiting small arm ranges on AAFB and naval station not considered as an alternative for the use of the use of the marines for their weapons qualification. DEIS reflects eight alternatives and none show the consideration of the use of these exsiting ranges.	
J-001	-0,61	16	16- 51	Table 16.2-14	Guam EPA		Who make up the US Pacific Islands? Many of the Micronesian Islands are politically not US Islands, clarify.	
J-001	-0⁄62	6	16- 53		Guam EPA		Standard of Living-Impacts-The salary increase is based on what study? If these figures are for construction workers, about the general public?	

Comments Page 15 of 41 Military Buildup - Guern EPA

material will be created with existing soil at the site. Whenever possible, construction will re-use materials onsite to minimize impacts to resources.

J-001-030

Thank you for your comment. The wastewater flow from Finegayan base will be connected to NDWWTP using a new relief sewer as recommended in wastewater utility study and described in the FEIS. However during the construction phase, flow from Phase 1 facilities at Finegayan will be discharged to GWA sewer along Route 3. Andersen Air Force Base will contribute additional flows to sewer along Route 3 and this may impact the capacity of the sewer. A separate study to assess the capacity of Route 3 sewer is underway and details of the study are included in FEIS. DoD has committed to arrange 3rdparty funding via a special private entity to fund the necessary upgrades to NDWWTP but the details of the arrangements are preliminary. Thie conceptual funding arrangement is discussed in the FEIS.

J-001-031

Thank you for your comment. This long-term alternative has been retained in case the preferred basic alternative proves inadequate. The long-term alternatives are covered only programmatically in this DEIS and, if implementation is pursued, would need to be covered in future NEPA documents with full project level detail. Thus, the details you are requesting are not included in the DEIS.

J-001-032

Thank you for your comment. DoD is aware of the challenges in permitting an additional outfall, thus the preferred basic alternative is to upgrade the North District Waste Water Treatment Plant. The stand alone DoD wastewater treatment plant is a long-term alternative and only covered at a program level of detail. If this alternative is pursued, future

Military_Bulldup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	2	17			Guam EPA		This chapter did not lolude subject concerning the issue about pesticides in details. PL 29-26 require new requiremens for importation, use, and disposal of pesticides. The issue about illegal importation from foreign companies is an ongoing problem on Guam. With the increase in civilian population, from especially Asia where 90% of illegal pesticides are from, there must be better explanation here or in the Socio/Economic Section (ch.16). How about the issue obout, Chlordane in soils on FUDS millitary sites that will be disturbed during construction phase?	
J-001	· 064 2	16	16- 86, 16- 87		Guam EPA		It appears that crime discussions here concentrate on FAS residents and spent very little information on actual crimes that were actually committed on Okinawa and how Okinawan population view after the rapes of local women by US Marines.	
J-001	- 065 2	16	16. 2.3		Guam EPA		Social impacts should include impacts resulting from the build up to the nearby FAS islands or CNMI. Currently there is discussions to bring in laborers during the construction phases. There will be labor shortages in these islands Has there been any research on this?	
J-001	2	16	16. 2.3. 4		Guam EPA		Again, the issue about increase crime from FAS. If the current stastistics shows increase crime from FAS are these crimes due to residnets who are "loose" and not employed or by FAS residents who hold jobs? Most of the anticipated in-migrants will be skilled workers who are currently trained by Guam Contractor's training which now ongoing in the islands. To lump these group with first wave of in-migrants when the Compant of Free-Assoication was first ratified is unfair and discriminatory. This kind of discussion is disriminatory and must not be used.	

Comments Page 16 of 41 Military_Buildup_-Guarn EPA

NEPA documentation and review would be required. There are some alternatives to a new outfall that would be explored if this alternative is pursued, such as use of current outfall for the effluent with agreement with GWA.

J-001-033

Thank you for your comment. Information summarized and added to Line 7 LID, in Table 2.1-1.

J-001-034

Thank you for your comment. The FEIS includes an analysis of potential indirect impacts to nearby habitat from road construction. With implementation of construction BMPs, there should be minimal impacts. Furthermore, the Guam Stormwater Manual would be included in the planning, design, and construction of all roadways.

J-001-035

Thank you for your comment. The Final EIS has been updated to include a table and discussion of BMP effectiveness and provide guidance for selecting a BMP or combination of BMPs most appropriate for site-specific treatment needs based on screening steps suggested in the CNMI and Guam Stormwater Management Manual (2006). The Final EIS also states that the construction of new facilities will use Low Impact Development (LID) principles to the extent practical. LID is a design philosophy that seeks to reduce the impact to the environment from new construction projects through the reduction of impervious surfaces. LIDs principles incorporate the design of facilities with the use of native vegetation, pervious (porous) surfaces to reduce storm water runoff and encourage recharge of groundwater, and water conservation. DoD is currently conducting site-specific comprehensive drainage and LID studies that will identify specific types of alternative designs that can be incorporated into the construction of facilities associated with the buildup.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl. Fig	Org	Com ment er (last	Comment	Responder
J-001	067 2		17		Guam EPA		In general, the discussion on hazardous waste or materials did not have any mention of the Increase use of pesticides especially for maintenance, preconstruction treatments and postconsruction treatments using termiticides and fumigants. How about the increase need to fumigate imported food and construction materials such as gravels?	
J-001	068 2				Guam EPA		The proposed relocation must have a single IPM (Integrated Pest Management Plan) to minimize the use of pesticides on Guam. The impacts will be tremendous. Therefore, a separate plan which will encompass all activities must be drafted as part of the 9 volumes. The current problems with use, importation and potential increase in invasive species must be reflected in this IPM plan for all DoD activities on Guam.	
J-001	- 069 2	1	2- 74	line 17	Guam EPA		The other facilities would tap into existing Andersen AFB utilities at 5th Avenue, except for wastewater. A <u>septic/leach field system</u> would be constructed for the VIF and ID office. As mentioned in the Agency early scoping comments 2007, connection to the public sewer is needed.	
J-001	-070	4	4-3	last line	Guam EPA		Below are the category description from the <u>GEPA (GEPA 2001)</u> , is this means GEPA Water Quality Standard (2001 Revision)?	
J-001	- 071 2	2	2- 87	Table 2.5-2	Guam EPA		Are bilge oil waste treatment discharging into the WWTP? If so, how much approx. additional flow projection are expected to be dischage in the wastewater treatment plant? EIS must consider re-assessing tha Apra Harbor WWTP capacity in order to ensure that additional loads could be accommodated for treatment. Projection of demand must consider using the average maximum flow.	

Comments Page 17 of 41 Military_Buildup_-Guarn EPA

These studies will identify the most effective BMPs and LID measures for each site and provide analysis of their effectiveness. Any activity-specific mitigation would be further developed/refined through the course of agency coordination and permitting.

J-001-036

Thank you for your comment. The definition of Nearshore Waters in Section 4.1.1.4 has been revised.

J-001-037

Thank you for your comment. Discussion regarding the definition of the Guam Groundwater Area has been revised to reflect this comment.

J-001-038

Thank you for your comment. Section 4.1.2.1 reflects this comment; all of Andersen AFB overlies the NGLA.

J-001-039

Thank you for your comment. DoD continues to comply with all regulatory requirements for the restoration areas. No source water wells are planned in areas of known contamination. Groundwater samples will be collected during test borings to confirm that source water wells meet drinking water standards.

J-001-040

Thank you for your comment. In the EIS, Figure 4.1-5, Guam Groundwater Resources, depicts the NGLA subbasin boundaries.

J-001-041

Thank you for your comment. Section 4.1.4.1, Nearshore Water Quality contains information reflecting this comment.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 072 2	2	2- 89	line 6	Guam EPA		The entire cargo staging/vehicle wash area; what kind of pre-treatment are planned to install and what is the approx. discharge volume are projected to be added to the WWTP? EIS must consider quantifying the approx. volume of discharge to ensure that the WWTP are capable to handle the additional flow.	
J-001	- 073 2	2	2- 95- 97	line 8, 32	Guam EPA		Waterfront project: LCAC/AAV Laydown Area: A vehicle wash facility, as mentioned washrack design may include recycling and pre-treatment; is this a zero discharge or there is any dischage from the recycling? if there is any how much volume discharge are anticipated and where is the discharge point? The area is	
J-001	- 074 2	2	2- 98	line 30	Guam EPA		Waterfront Project: USCG Berthing; Primary facilities and construction- Water and Wastewater -briefly specify if what are the extent of wastewater facilities are planned and are provation of bilge water treatment included in the plan?; If included, specify volume of discharge and must be quantified for WWTP capacity assessment.	
J-001	- 075 2	2	2- 115	Table 2- 5-8	Guam EPA		Alternative 1 was choosen for Medical/Dental facilities: as mentioned said site is potential for soil contamination, potential chlordane soil contamination and stormwater drainage concerns on the south end. EIS must briefly indicate the proper mitigation and process prior to start of any construction.	
J-001	-0.76	6	6.1. 2		Guam EPA		Action : Airlift operations, airdrops at landing zones and other operations.	

Comments Page 18 of 41 Military_Buildup_-Guam EP/

J-001-042

Thank you for your comment. Change made to EIS to reflect your comment regarding surface flow in Apra Harbor.

J-001-043

Thank you for your comment. The text has been revised in the Final EIS.

J-001-044

Thank you for your comment. As shown on Figure 4.1-27 in the EIS, Apra Harbor Water Resources, these 4 rivers flow through Navy property on their way to Apra Harbor.

J-001-045

Thank you for your comment. The text in the DEIS reflects 7,050 acre feet/8,696,000 cubic meters, these are comparable volumes that are expressed in different units; both numbers are the correct capacity.

J-001-046

Thank you for your comment. The referenced text reflects an analysis of potential direct and indirect impacts during construction and operations. The FEIS includes a more robust analysis than was provided in the DEIS of both direct and indirect impacts during construction and operations.

J-001-047

Thank you for your comment. Section reflects an analysis that considers the role of the Karst geology.

J-001-048

Thank you for your comment. The DoD is considering several options for disposal of dredged material, including upland placement, ocean

Milltary_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 077 2	6	6.1.		Guam EPA		Impact: noise impacts at established airfields at AFB, NWF, GIA, and landing zones were well define with noise contours shown and discussed. However noise impacts along aircraft flight paths to and from established airfields and new landing zones for Marines training airlift and airdrop operations were not addressed, except ingeneral terms. Noise impact to human and endangered species resulting from these operational flight paths were not addressed outside of the these airfields and LZ's to support the LSI or NI findings in the DEIS.	
J-001	- 078 2	18	18. 2.2. 1		Guam EPA		Aircraft operations safety of flight patterns over land between base aircraft operations and landing zones (and vice-versa or base to base) was notaddressed. Discussions centered only around the airfields. Futher impact assessment of travel route to determine potential safety impacts, alternatives, and mitigation.	
J-001	- 079 4	2	22		Guam EPA		Better discussion on merits of mechanical versus hydraulic dredging needs to be added because of lack of information on potential impacts to coral reef areas deeper than 18 meters and ineffectiveness of silt curtains at Kilo wharf.	
J-001	-080 4	2	24		Guam EPA		Guam Epa did not review and approve sediment monitoring and compositing plan. A new plan must be submitted to Guam EPA prior to dredging activities for approval. As there will be several site specific chemicals of concern that will be added to the list of analyates to be tested.	
J-001	- 081 4	2	25		Guam EPA		Upland disposal sites will need to be verified and inspected by Guam EPA. A dewatering plan must be submitted prior to Guam EPA permits will be required for all sites.	
J-001	-082 4	2	25		Guam EPA		Dewatering of 2 million cubic yards of dredge material of seawater over a fresh water aquifer would cause salt water intrusion from the top, potentially contaminating the quaifer. Propose to use lined areas and allow evaporation veruss draining.	
	Co	mm	ents				Page 19 of 41 Military	_BuildupGuam EP

disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). The agreement with the Port Authority of Guam continues to be valid. Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts from using dredged material for reuse projects will be conducted during the permitting phase.

The Navy acknowledges there is potential for their existing and future coastal facilities to be adversely affected by sea level rise, inundations from more extreme storm events and other consequences of climate change. However, predictive models on future sea level rise are subject to variability, due in part to unknown future greenhouse gas emissions. The variability increases with the period of time being assessed. Risk assessment methodologies and technologies are being developed to predict the potential impacts of climate change on existing Navy coastal facilities. As new design criteria relevant to climate change are adopted by the Navy, they will be incorporated into project design.

J-001-049

Thank you for your comment. Interim Sustainable Yield Assessment: DoD agrees that protection of the sole source NGLA is imperative. The FEIS discussed the two available estimates of the NGLA that have been published, one by the Northern Guam Lens Study (NGLS) (CDM 1982) and one by Barrett Consulting with John Mink (Barrett 1992). The CDM 1982 study estimated the sustainable yield of the NGLA as 57.5 MDd, and the Barrett 1992 study estimated the sustainable yield as 80.5 MGd.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

Page 20 of 41

Military Buildup -Guam EP4

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	0 83	11	5	13 lin e	Guam EPA		Species of Concern - Authors should coordinate with GDAWR and Guam Fisherman's Coop to identify "local" species to include in the list of Species of Concern	
J-001	- 084 4	1	23	3rd issue	Guam EPA		A statement was made that indicated "minimal contamination" from recent dredging. What about historic dredging? What about the sediment at Bldg. 3009 outfall? Follow up testing needs to be done to proper characterize the dredge material.	
J-001	• 085	2	24	last paragrap h	Guam EPA		Statement that there is no need for treatment or remediation ofdredge spoils, this has not been fully determined for the Gabgab CDF.	
J-001	- 086 4	2	41	2.5.3.1	Guam EPA		Where would the construction debris be disposed? A solid waste and construction debris plan needs to be submitted to Guarn EPA for review and approval.	
	4	2	53	2.6.3.1	Guam EPA		Where would the construction debris be disposed? A solid waste and construction debris plan needs to be submitted to Guarn EPA for review and approval.	
J-001	087	2	43	2.5.3.2	Guam EPA		Operational plans for the movement and unloading of barges must be submitted to GEPA for approval.	
J-001	-088	2	43	2.5.3.2	Guam EPA		Prior to use of chisel to roughen up the surface prior to dredging along reef slopes, an underwater survey must be completed to ensure that chiseling does not sheer of whoel sections of reef.	
J-001	- 089 4	2	43	2.5.3.3	Guam EPA		All imported aggregates and other construction materials must follow all established local rules and regulations for the importation of these materials. Guidelines can be obtained from GEPA and Dept. of Ag	
J-001	- 090	2	46	2.6.1	Guam EPA		Ownership of SRF land needs to be addressed first then a new assessment must be conducted of actual footprint of lease land.	

University of Guam (UoG) Water and Environmental Research Institute (WERI) provided an expert technical review for DoD of the two sustainable yield estimates for the NGLA in 2009. The study concluded that the approach and methodology used in Barrett 1992 to estimate the sustainable yield are still valid and are appropriate for initial planning; and the Barrett 1992 sustainable-yield estimates should be used instead of the earlier 1982 sustainable-yield estimates because the later values are based on an additional decade of field data. Additionally, this expert communicated that the additional data that had been gathered from the NGLA since the 1992 study would not likely change the sustainable yield estimate for purposes of the FEIS because the data collected was from sub-basins of the aquifer that are not located where DoD proposes to withdrawal water. Therefore, the FEIS uses the Barrett 1992 sustainable yield estimate of approximately 80 million gallons per day. However, it is important to note that the estimated total average daily demand from the aquifer for all sources (DoD and non-DoD) during the peak construction year of 2015 is 50.33 MGd, which is below both sustainable yield estimates. Volume 6, Chapter 2, Section 2.2.4.1 and Chapter 3, Section 3.2.3.1 discuss this in detail.

During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for

Comments

Military Buildup -Guam EPA DEIS Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	091	2	57	2.7	Guam EPA		Need to reevaluate "No alternative" in light of the amount of coral reef area to be dredge as presented by the federal resource agencies and proposed cost of mitigation.	
J-001	092	3	4	3.22.1	Guam EPA		Upland disposal sites will need a closure plan as DEIS states these are temporay (3-4 years).	
J-001	023	4	6	4.2.2.1	Guam EPA		Unlined upland disposal sites will cause contamination into underlying aquifer through leaching. GEPA requires a dewater plan be submitteed and approved prior to placement of dredge.	
J-001	094 4	4	7	4.2.2.1	Guam EPA		Stromwater WILL be require t o be captured and treated prior to discharge, per the new Guam Stormwater manual. See GEPA for guidelines.	
J-001	0,₽5	4	11	4.2.2.2	Guam EPA		Guam EPA will require that Turbidity be the water Quality indicator as the trigger for exceedances and not TSS. A water Quality monitoring plan must be submitted prior to action.	
J-001	Q₽6	4	13	4.2.2.2	Guam EPA		A sampling and analyses plan must be submitted prior to disposal. GEPA must approve plan.	
J-001-	097 4	4	14	4.2.2.2	Guam EPA		Text mentions TBT as a chemical of concern, but in Table 4.2-2 there is no entery for the compound. GEPa requires that new testing be done to include TBT and other local chemicals of concern.	
J-001	098 4	4	15	4.2.2.2	Guam EPA		Testing of all dredge material will be BEFORE placement in upland disposal areas, not "within three yearsof the start of proposed dredging. As leaching could occur and upland disposal areas are temporary.	
J-001	099 4	4	16	4.2.2.2	Guam EPA		Resampling and verification of copper results needs to be done as concentration appears to be below the NOAA action levels, certain areas also appear to be areas of enrichment. Source idnetification must be conducted to verify if enrichment is occurring.	

Comments Page 21 of 41 Military_Buildup_-Guarn EPA

the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the co-management of the aquifer and development of a 3-D model, and It is also important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the subbasin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS. Long-term Comprehensive Aquifer Study: DoD has already committed funds to conduct the NGLA 3-D model. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aguifer as a critical resource.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl. Fig	Org	Com ment er (last	Comment	Responder
J-001	-099 4	4	20	4.2.3.2	Guam EPA		Resampling and verification of all chemical results needs to be done as concentration appears to be below the NOAA/EPA action levels, certain areas also appear to be areas of enrichment. Source idnetification must be conducted to verify if enrichment is occuring.	
J-001	- 100 4	4	38	230.44	GEPA		Not clear on which area DEIS is using for total area of coral. Is it the two or three dimensional view. GEPA recommneds that all reference of two dimensional be removed and use only the 3-d calculations as the coral reef is in 3-d.	
J-001	-191	4	39	230.44	GEPA		GEPA does not agree with the proposed mitigation of artifical reefs for the destruction of the coral reefs during the dredging. DOD must meet with the local and federal resource agencies to discuss.	
J-001	-102	4	39	230.44	GEPA		GEPA requests that a final determination of the mitigation be made and approved by both the federal andlocal resource agencies prior to the ROD.	
J-001	- 103 4	11	4	11.1.1 i	GEPA		DEIS states Dollar, et al, was a preliminary eviauation of the composition of benthic community, but also was the primary source of information for the assessment. GEPA request that a more detailed assessment be conducted to fully address the impacts of the dredging to the coral community in the area to include corals deeper than 60 feet.	
J-001	-194	11	5- 18	11.1.1	GEPA		DEIS appears to present benthic data as all other areas other than live corals is "essential habitat". The total area to be dredged needs to be taken into account for all impacts.	
J-001	-1405	11	54		GEPA		Modeling was done based on TSS. Need to remodel based on Turbidity, as this will be the primary parameter for Water quality assessments and to determine violations.	
J-001	- 106 4	1	57		GEPA		Statement that low wave energy of area will not likely cause detached coral fragments from moving by be correct, but need to conduct impact of prop wash from all vessels traveling through area. Specifically tugs and larger vessels.	

Comments Page 22 of 41 Military_Buildup_-Guorn EP/

It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aguifer and development of a 3-D model. Aguifer Management Plan: In October 2009, fully comprehending the importance of protecting the sole source NGLA, DoD initiated an effort with GWA/CCU to co-manage the NGLA. In fact, co-management of the aquifer, and pursuit of a comprehensive 3-D model of the aquifer was a DoD recommendation, not one made by EPA, GWA or GEPA. This effort proposed that GWA and DoD, the two entities that rely on the NGLA as a major source of water would need to work as one to protect this critical resource. The proposal was to cooperatively assess the impacts of proposed developments, use the upcoming USGS study to guide efforts to manage the NGLA, and leverage DoD and GWA resources to cooperatively address potential impacts and propose alternatives to mitigate adverse impacts to the NGLA. Although this initiative to work together cooperatively has been advanced at subsequent meetings that created consensus on the way ahead, both GWA and EPA raised concerns with the DEIS knowing that many of the issues they raised are already being addressed. Additionally, EPA was invited to these meeting, but declined to attend unless DoD funded their participation. It is important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all

Military_Buildup_-Guarn EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	107 4	11	67		GEPA		Statement that more non-native species exist on artificial structures, refutes notion of using artificial reefs as a mitigation for dredging impacts because know would be increasing substrate for non-native and not replacing native that was lost. Mitigation for dredging needs to be re addressed and approved by both local and federal resource agencies prior to ROD.	
J-001	1 08	3	15- 20	3.1.3	GEPA		Whole section describes impacts to NDWWTP. Does not address impacts of additional 6 to 12mgd of treated wastewater to the environment. It appears that DOD will only be a "customer" of GWA, and let GWA handle all assessment of the increased load. GEPa recommends that DOD conduct an impact study on the environment of the increase wastewater load from its facilities through the GWA plant.	
J-001	- 109 6	3	56	3.2.4	GEPA		Table and information indicate that with theDOD load on the NDWWTP, GWA would be in violation of Guam water quality standards and its federal NPDES permit for two years. No mention of how DOD will comply /assist GWA in meeting standards and not be as action is the increased load from DOD and not he civilian community.	
J-001	- 110	3	57	3.2.4.1	GEPA		GEPA recommends that GWA and DOD not exceed the design specifications of the WWTP as their will be no reserve capacity for accidental breakdowns or schedule maintenance. This is also a violation of all permits.	
J-001	- 111 6	3	59	3.2.4.2	GEPA		GEPA requires tha a separate EIS be conducted on the feasibility and impact of the creation of another WWTP with an ocean outfall within the same vicinity of the current GWA outfall, as the primary alternative. Study is needed to address if the marine environment in the area can handle the 6-12mgd of "treated" wastewater.	

Comments Page 23 of 41 Military Buildup -Guam EP/

questioned UoG-WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS.

J-001-050

Thank you for your comment. Volume 7 lists the BMPs and mitigation measures identified throughout the EIS. Discussion of BMPs and mitigation throughout the EIS has been expanded in response to public and agency comments on the DEIS. For purposes of efficiency (particularly to control document size), if the impact analysis is similar to previous analysis, the reader is referred to the more involved section for a detailed discussion of impacts. This approach helps to reduce repetition of analysis. The analysis includes a dicussion of potential impacts from munitions entering the marine environment.

J-001-051

Thank you for your comment. Please see Chapter 11 of Volume 2, which discusses coral reef communities in Inner Apra Harbor. There will be no dredging of any coral or unique marine habitat area within Inner Apra Harbor.

J-001-052

Thank you for your comment. The 100-year storm event is the design storm. Engineers would design infrastructure that reflects anticipated conditions. The cumulative impacts analysis in Volume 7, Chapter 4 has been expanded to include discussion of the impacts of and adaptations to climate change.

Military_Bulldup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	4	2	35	Tbl. 2.3-1	Guam EPA		Dredged material. Beneficial uses should be proposed and evaluated in the DEIS. The beneficial uses of dredged materials are being completely ignored, but should receive highest priority. This DEIS must make more of an effort to plan for and assess and prioritize beneficial uses for dredged material. Even fine sediments can be treated to use as well-performing building materials. This and other uses, such as landfill cover, construction fill, firing range berms, rehabilitation of quarries, etc. need to be seriously considered in this DEIS, and not just military project uses but beneficial uses on other Guam or regional projects. E.g., could the ships but beneficial uses on other Guam or regional projects. E.g., could the ships bringing in bulk aggregate or construction materials to Guam leave Guam carrying dredged material to Yap where the State Government needs fill for construction projects but lacks it? Or, is the Navy agreement with Port Authority of Guam to provide dredged material for dock construction still valid? Why isn't this seriously evaluated in the DEIS? Also, with projected sea level rise, shouldn't dredged material be incorporated into adaptation plans to raise land levels to avoid coastal looding?	
J-001	- 113 4	2	49	14 &15	Guam EPA	1	Beneficial uses of the dredged material should be addressed in the DEIS. Delay in foing this will force the use of ocean disposal, which can be prevented and is not preferred. Even fine slit material can be treated to provide good constraction material. Why is this not discussed in the DEIS? This appears to be a serious allure in the DEIS process. Waiting for the permit process to start assessing peneficial uses will lead to delay in the CVN project permit approvals and delay in he project.	
J-001	141.4	þ	56	17	Guam EPA	/ K	Nould bloycle access be accommodated with the pedestrian and vehicle facilities? Of the thousands on board a CVN, there must be many wanting to use bicycles on Juam.	
J-001	1415	k	57	12	Guam EPA		Besides designing for 100 year storms, will designs be done that incorporate adaptation to estimated climate change impacts?	
J-001	1,16	2	60		Guam EPA		Why is potable water much less than wastewater? Is seawater used for toilets on the CVN? Explain.	

Comments Page 24 of 41 Military Buildup - Guarn EPA

J-001-053

Thank you for your comment. Interim Sustainable Yield Assessment: DoD agrees that protection of the sole source NGLA is imperative. The FEIS discussed the two available estimates of the NGLA that have been published, one by the Northern Guam Lens Study (NGLS) (CDM 1982) and one by Barrett Consulting with John Mink (Barrett 1992). The CDM 1982 study estimated the sustainable yield of the NGLA as 57.5 MDd, and the Barrett 1992 study estimated the sustainable yield as 80.5 MGd. University of Guam (UoG) Water and Environmental Research Institute (WERI) provided an expert technical review for DoD of the two sustainable yield estimates for the NGLA in 2009. The study concluded that the approach and methodology used in Barrett 1992 to estimate the sustainable yield are still valid and are appropriate for initial planning; and the Barrett 1992 sustainable-yield estimates should be used instead of the earlier 1982 sustainable-yield estimates because the later values are based on an additional decade of field data. Additionally, this expert communicated that the additional data that had been gathered from the NGLA since the 1992 study would not likely change the sustainable yield estimate for purposes of the FEIS because the data collected was from sub-basins of the aquifer that are not located where DoD proposes to withdrawal water. Therefore, the FEIS uses the Barrett 1992 sustainable yield estimate of approximately 80 million gallons per day. However, it is important to note that the estimated total average daily demand from the aquifer for all sources (DoD and non-DoD) during the peak construction year of 2015 is 50.33 MGd, which is below both sustainable yield estimates. Volume 6, Chapter 2, Section 2.2.4.1 and Chapter 3, Section 3.2.3.1 discuss this in detail. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line. Tbl, Fig	Org	Com ment er {last	Comment	Responder
J-001	147	2	60	24	Guam EPA		Would a redundant system of back-up pumps be necessary and would the CVN sewage have similar characteristics to those of residential sewage at the Navy base?	
J-001	- 118 -4	2	61		Guam EPA		Planned stormwater management may not meet Guam requirements. Proposed discharges of stormwater would impact Sasa Bay Marine Preserve. What kinds and amounts of pollutants would occur in the discharges? Would the discharge always meet Guam water quality standards? Will the treatment system be able to protect marine waters from accidental spills in the drainage area?	
J-001	149	2	62	6 to 8	Guam EPA		What kinds and amounts of hazardous waste is expected to be generarted?	
J-001	120	2	62	19	Guam EPA		Is climate change and resulting sea level rise being considered in this and other coastal development plans by DOD?	
J-001	121	2.5	67	18 to 25	Guam EPA		Serious problems have arisen with recent Navy project's imported aggregate from Asia. What approximate amounts will be needed and what are the capacities for local production of aggregates?	
J-001	- 122 4	2.6. 1	75	8 to 13	Guam EPA		Planned stormwater management may not meet Guam requirements. Proposed discharges of stormwater would impact nearby rich coral areas. What kinds and amounts of pollutants would occur in the discharges? Would the discharge always meet Guam water quality standards? Will the treatment system be able to protect marine waters from accidental spills in the drainage area?	
J-001	1,23	2.6	75	17 to 19	Guam EPA		What kinds and amounts of hazardous waste is expected to be generarted?	
J-001	1,24	3	83		Guam EPA		Replace "Public Utilities Agency" with "Coastal Management Program"	

Comments Page 25 of 41 Military_Buildup_-Guam EPA

that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aquifer and development of a 3-D model. It is also important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS. Long-term Comprehensive Aguifer Study: DoD has already committed funds to conduct the NGLA 3-D model. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes,

Military Buildup -Guam EPA DEIS Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001-	125 4	3	86	16	Guam EPA		While dredged spoil is stored at disposal sites, would calcareous material under the influence of rainfall fuse into concrete-like rock, such as beachrock is formed, and make it not suitable for planned beneficial uses?	
J-001	126	3	90	Tbl. 3.2-4	Guam EPA		Impacts of beneficial uses of dredged material should be included. Mitigation related to beneficial use also should discussed.	
J-001	127	4	93	8 &9	Guam EPA		"Nearshore" waters averaging 10 meters depth does not relate to Guarn, where reef flats and steep reef slopes predominate.	
J-001	128	4	94	1 &2	Guam EPA		Can't both direct and indirect impacts occur during construction and also both occur post-construction, during operations?	
J-001	129	4	98	13 &14	Guam EPA		The designing of haul roads for military use, especially in the vicinity of Apra Harbor, does not appear to be following the CNMI and Guam Stormwater Manual, even though this is required by local law.	
J-001	1,30	4	98	42	Guam EPA		Dewatering sites on Orote Peninsula are over an aquifer, but not one that is a source of drinking water.	
J-001	131 4	4	99	25 &26	Guam EPA		100% capture and treatment of stormwater is required throughout Guam, but has not been practiced on Military land. Recent Navy projects such as Bravo Wharf and Kilo Wharf do not include the stormwater management practices that should be applied to future project designs as proposed in this DEIS.	
J-001	1,32	4	94	1 &2	Guam EPA		Can't both direct and indirect impacts occur during construction and also both occur post-construction, during operations?	
J-001	1,33	4	98	13 &14	Guam EPA	- 1	The designing of haul roads for military use, especially in the vicinity of Apra Harbor, does not appear to be following the CNMI and Guam Stormwater Manual, even though this is required by local law.	
J-001	134	4	98	42	Guam EPA		Dewatering sites on Orote Peninsula are over an aquifer, but not one that is a source of drinking water.	

Comments Page 26 of 41 Military_Buildup_-Guam EPA

EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aguifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aguifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aquifer and development of a 3-D model. Aquifer Management Plan: In October 2009, fully comprehending the importance of protecting the sole source NGLA, DoD initiated an effort with GWA/CCU to co-manage the NGLA. In fact, co-management of the aguifer, and pursuit of a comprehensive 3-D model of the aguifer was a DoD recommendation, not one made by EPA, GWA or GEPA. This effort proposed that GWA and DoD, the two entities that rely on the NGLA as a major source of water would need to work as one to protect this critical resource. The proposal was to cooperatively assess the impacts of proposed developments, use the upcoming USGS study to guide efforts to manage the NGLA, and leverage DoD and GWA resources to cooperatively address potential impacts and propose alternatives to mitigate adverse impacts to the NGLA. Although this initiative to work together cooperatively has been advanced at subsequent meetings that created consensus on the way ahead, both

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	135 4	4	99	25 &26	Guam EPA		100% capture and treatment of stormwater is required throughout Guam, but has not been practiced on Military land. Recent Navy projects such as Bravo Wharf and Kilo Wharf do not include the stormwater management practices that should be applied to future project designs as proposed in this DEIS.	
J-001	- 136	4	100	2 &3	Guam EPA		Particularly unique and special mangrove and other wetland areas are near this site and could be impacted by access road construction and design and dredging operations for CVN facilities. Their fauna could be impacted by construction interfaring with necessary movements for foraging or breeding or by operation disruptions such as noise affecting endangered moorhens.	
J-001	-137 4	4	100	30 &31	Guam EPA		This DEIS fails to address beneficial uses of the dredged material. Why are these not discussed in the DEIS? Delay in doing this will force the use of ocean disposal, which can be prevented and is not preferred. Even fine silt material can be treated to provide good constraction material. This appears to be a serious failure in the DEIS process. Waiting for the permit process before starting assessing beneficial uses will lead to delay in the CVN project permit approvals and delay in the project.	
J-001	- 138		101	30 &31	Guam EPA		Observations by regulatory agencies' staff in the proposed CVN turning basin and channel dredging areas recorded frequent presence of finer siltier sediments rather than coarse sediments. This will affect turbidity plumes and suspension times.	
J-001	- 139	4	102	9 & 10	Guam EPA		Recent dredging operations in Apra Harbor show that silt curtains can only be extended to 30 foot dopths. The deeper depths of necessary CVN site dredging makes the curtains less effective. Other management practices, such as bubble curtains, will be necessary to better control the dredging impacts. If need for such management practices is not recognized in the DEIS and is not considered until permits are sought, the permitting process may cause serious delays in dredging projects.	

Comments Page 27 of 41 Military Buildup - Guam EPA

GWA and EPA raised concerns with the DEIS knowing that many of the issues they raised are already being addressed. Additionally, EPA was invited to these meeting, but declined to attend unless DoD funded their participation. It is important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS.

J-001-054

Thank you for your comment. Section 4.2.2.2/Non-DOD Lands/Operation/Nearshore Waters contains a discussion of potential impacts to nearshore waters from ammunition entering the marine environment.

J-001-055

Thank you for your comment. The draft of the Socioeconomic Impact Assessment Study (SIAS) was completed just prior to the DEIS and is the basis for the socioeconomic impact assessment in the DEIS. The study is available and included as Appendix F in Volume 9 of the DEIS.

J-001-056

Thank you for your comment. It has been noted and the changes have been reflected in the FEIS.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	-140	4	111	13 &14	Guam EPA		Dewatering sites on Orote Peninsula are over an aquifer, but not one that is a source of drinking water.	
J-001	-141 4		112	Tbi 4.2-4	Guam EPA		Construction measures could include beneficial uses being planned for dredged material. Operation measures could include diligent maintenance of reef and channel markers to avoid ship contact with reefs bordering the channels.	
J-001	-142		134	11 to 16	Guam EPA		By not considering possible beneficial uses for dredged material and assessing impacts of various uses, this DEIS fails to include the most desirable alternative and forces the choice of non-preferred uses of the material.	
J-001	-143	9.2. 2	142 to 144		Guam EPA		Loss of existing beach, picnic area, swimming, diving, fishing, boating and other current recreational uses that will be rplaced by the physical presence of the CVN wharf should be listed among impacts.	
	4	9.2	145	Tbl. 9.2-3	Guam EPA		Loss of existing beach, plonic area, swimming, diving, fishing, boating and other current recreational uses that will be rplaced by the physical presence of the CVN wharf should be listed among impacts.	
J-001	-144	10	128	21 to 24	Guam EPA		Clearing or impacting on limited mangroves and associated vegetation should be considered significant.	
J-001	-145 4	10	154	20	Guam EPA		Should discuss that historically oil and toxic releases have been associated with accidents related to typhoons and the movement of surface waters at those times have not corresponded with directions that occur during tradewinds. Movements of spills would more likely be towards the mangroves then.	

Comments Page 28 of 41 Military Buildup - Guam EPA

J-001-057

Thank you for your comment. Quality of life issues encompass a wide range of topics, given the individual's perception of what constitutes the "quality of life," what aspects are included, and how it is rated are subjective. The quality of life issues you have identified: water, transportation, wastewater, and power provide a basis to look at the existing baseline conditions and review the impacts to those baseline conditions (as is typically done in an EIS). This approach is used in the DEIS. Water, transportation, wastewater, and power are discussed in detail primarily in Volume 6 of the DEIS.

J-001-058

Thank you for your comment. Regarding whether there are enough resources on Guam to handle significant increase in the disposal of hazardous substances, a parallel Draft Joint Military Master Plan Document dated 28 January 2010 provides specific details several new facilities (e.g., operations and maintenance facilities, bilge and oily wastewater pump station, fuel storage areas, POL storage areas, warehousing facilities, munitions magazine storage facilities, hazardous waste storage facilities, waste storage facilities, Hazmat storage, etc.). These new facilities will be required to store, handle, and dispose of the estimated increases in hazardous substances that would occur from the potential DoD unit transfers to Guam. This Master Plan is currently not available for public distribution, but rather is currently for "official use only". However, at a later point in time, this Master Plan will be released for review and specific information regarding new facilities for the handling of hazardous substances will be available.

J-001-059

Thank you for your comment. The waste sites on the Figues will be labeled.

Military_Bulldup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	-146 4	11.	159		Guam EPA		Lack of information makes it impossible to determine whether other special or unique or valuable species suspected to live in the area of direct dredging impacts will be significantly impacted. For example, two species of the whiptail fish, genus Pentapodus are only known to occur in the Marianas and Guarm in the deeper turbid areas of Apra Harbor. This indicates that this is a unique environment that probably contains other species not found elswhere. The CVN channel and turning basin dredging can significantly impact currently unknown marine life, especially unique benthic invertebrates and corals. But the DEIS does not address information for these species or allow for mitigation to protect them.	
J-001	- 147 4	11	162	3 to 8	Guam EPA		If construction and/or operations results in major significant impacts to fish populations and important fishery species, this DEIS' lack of quantitative data on fish in the impact area makes such losses unmeasurable. The DEIS should not just provide its simple brief notes on families of fishes seen, but needs a quantitative listing of the diversity and abundance of species in the areas to be impacted by dredging and operations. This should include observations at night, when many important fishery species are seen.	
J-001	- 148	11	162		Guam EPA		Construction and operation of CVN facilities, especially channel dredging, could seriously impact living resources that periodically migrate to and from the unique and valuable marine species nursery area of Sasa Bay Marine Preserve. But this DEIS fails to assess numbers and seasonal migration habits of fish species and mobile marine animals traversing the impacted area. Examples could be periodic atulai (scad) aggregations, seasonal or monthly dispersal of mangrove crab and other crab larvae, annual birthing of hammerhead sharks, etc. Limiting marine resources' functional assessments to coral cover and not quantifying fish resources is a fallure of this DEIS.	

Comments Page 29 of 41 Military_Buildup_-Guarn EPA

J-001-060

Thank you for your comment. The DEIS describes the intensive selection process that the DoD went through to select alternatives for the location of the firing range on Guam in Section 2.3.1. Because of the size of the firing ranges and the need to include all safety zones as part of the acquired lands, or conflicts with existing land uses (housing, Won Pat International Airport), the firing range could not be placed on DoD lands, including Tarague and other DoD ranges. There would be a significant amount of excavation required to create the range topographic profile and to re-construct the steep access road to the range on Anderson AFB. In addition to the potential erosion control issues associated with the extensive grading, cultural and natural resource sites would be impacted. Discussion on the screening process associated with the firing ranges has been clarified in the FEIS.

J-001-061

Thank you for your comment. The U.S. affiliated Pacific islands/island groups include: Hawaii, Guam, Northern Marianas, Yap, Palau, Chuuk, Pohnpei, Marshall, Kosrae, and American Samoa.

J-001-062

Thank you for your comments. Relating to cost of living and the proposed military buildup, it is noted that the history of inflation and recession of Guam's economy from the 1970s to present was provided on page 3-47 of the SIAS. In subsection 4.3.1.4 (beginning page 4-10) of the SIAS, the subject of impact on the standard of living is addressed, stating: "Standard of living is a measure of purchasing power. If the standard of living increases for a person it means they can purchase more goods and services. If the standard of living declines for that person, he or she can purchase fewer goods and services. Changes in a person's standard of living are determined by their income and the prices of the goods and services they tend to purchase. A person's standard of living will increase if their income rises faster than the prices of goods

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	-149 4	11	164	24 to 31	Guam EPA		The CVN channel, turning basin and berthing area are a unique and rare habitat, apparently found no where else in US waters of the North Pacific. This is a deep water, coral reef, sheltered lagoon habitat adjacent to mangroves and mudflats. As a second critisron for HAPC the site is going to be heavily stressed by development activities. Not enough studies have been done to show the significance of ecological functions or its sensitivity to human degradation.	
J-001	150	11	165	11 and 13	Guam EPA		Spell Acanthophora spicifera	
J-001	- 151 4		169	13 to 32	Guam EPA		The method used to estimate coral coverage and to interpret functional losses is questionable and not acceptable. The DEIS must include regulatory agencies' assessments and their comparison with the Navy's. The Navy shows much lesser functional values.	
J-001	- 152		176	14	Guam EPA		Unique communities containing dense coverage of "rare" corals, including Pectinia (cf. P. paeonia) and Leptoseris (cf. L. gardenar), making up healthy coral habitats apparently found no where else in the Marianas or any other US controlled waters, could be permanently lost under direct impact of the dredging for CVN channal and turning basin. Basing impact values and mitigation on simply live coral coverage does not recognize values of such special and unique coral communities.	
J-001	- 153		188	6&7	Guam EPA		Although most of the coral community to be destroyed by dredging is made up of the common species <i>Porites rus</i> , unique communities containing dense coverage of "rare" corals, including <i>Pectinia</i> (cf. <i>P. paeonia</i>) and <i>Leptoseris</i> (cf. <i>L. gardonari</i>), also were observed there by the resource regulators team. These make up healthy coral habitats apparently found no where else in the Marianas or any other US controlled waters. They could be permanently lost under direct impact of the dredging for CVN channel and turning basin. Basing impact values and mitigation on simply live coral coverage does not recognize values of such special and unique coral communities.	

Comments Page 30 of 41 Military_Buildup_-Guern EP/

and services they tend to purchase. A person's standard of living will decline if the prices of goods and services they tend to purchase rise faster than the person's income. In both the construction and operational components, the average wage of workers would increase as a function of greater demand for labor. However, the price of goods and services purchased by individuals would rise as well. It cannot be definitively predicted whether wages or the price of goods and services would increase at a faster pace. If wages earned by a particular household rise more quickly than the price of goods and services, then the standard of living would increase. If the price of goods and services rises more quickly than wages, the standard of living would decrease. For households on fixed incomes, the result would be reduced purchasing power. Those with the ability to quickly renegotiate their wages will have a better chance at maintaining or increasing their standard of living." On page 4-11 of the SIAS, the discussion continues and discusses the income of military related construction and operational jobs that will, on the average, be higher than the present average wages on Guam. It concludes: "In terms of cost of living, from 2000 to 2008 Guam workers have seen their standard of living decline by 30% and there is no reason to expect the military buildup to reverse that trend – Guam workers will likely to continue to see the cost of goods and services rise faster than their incomes. While the proposed action may not represent a reversal of this trend, it will slow the rate of decline in the standard of living that has been prevalent since 2000. The expected increase in wage rates on Guam is based on the economic impact analysis which produced an expected higher proportion of jobs, that pay higher than the current average wage, than currently exists on Guam.

J-001-063

Thank you for your comment.

Volume 2, Chapter 17 has been modified as follows:

Military Buildup -Guam EPA DEIS Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	-154	11	198	Tble 11.2- 4	Guam EPA		Will greywater be discharged from CVN or support ships anywhere within Guam waters? If so, what would be impacts?	
J-001	-155 4	11	211	27 & 28	Guam EPA		Unique communities containing dense coverage of "rare" corals, including Pectinia (cf. P. paeonia) and Leptoseris (cf. L. gardenari), making up healthy coral habitats apparently found no where else in the Marianas or any other US controlled waters, were observed by regulatory agency teams in the impact areas. These could be permanently lost under impact of the dredging for CVN channel and turning basin. Basing impact values and mitigation on simply live coral coverage does not recognize values of such special and unique coral communities.	
J-001	-156 4		212	1 & 2	Guam EPA		Some areas in the CVN channel that are deeper than the depth to be dredged will receive major impacts of sedimentation from the dredging. But the diversity and abundances and age structure of corals living there have not been assessed. Rare and possibly unrecorded species may occur there, which could be killed by the dredging impacts.	
J-001	- 157	17			Guam EPA	Ι,	Throughout the volumes of the DEIS, projected increases of toxic materials due to the expansion of DOD activities are noted and DRMO current general capacities are expressed to handle hazardous wastes, but needed specific additional facilities and resources to handle increases are not addressed. Simply stating that increased capacity may be needed is not sufficient. Plans must be made and facilities and resources put into place before the new actions covered by this DEIS begin.	
	5	17			Guam EPA		Throughout the volumes of the DEIS, projected increases of toxic materials due to the expansion of DOD activities are noted and DRMO current general capacities are expressed to handle hazardous wastes, but needed specific additional facilities and resources to handle increases are not addressed. Simply stating that increased capacity may be needed is not sufficient. Plans must be made and facilities and resources put into place before the new actions covered by this DEIS begin.	
	Co	mm	ents				Page 31 of 41 Military	_BuildupGuam EP4

• To Table 17.2â€'3. Summary of BMPs and SOPs: "Ensure all DoD personnel and contractors are trained in accordance with the Guam public law (PL) 29-26 regarding the importation, handling, use, and application of pesticides (e.g., during maintenance, pre and post construction, and general operations activities). In addition, as part of the proposed relocation, DoD will develop and implement a comprehensive Integrated Pest Management Plan (IPMP). This IPMP will encompass all activities regarding the importation, handling, storage, use, and application of pesticides. In addition, the IPMP will address the prevention of potential invasive species issues related to the transportation of materials, supplies, equipment, and personnel to and from Guam."

- To Section 17.1.2.2 Guam Environmental Protection Agency Laws and Regulations: "In addition, Public Law (PL) 29-26 addresses the importation, handling, use, and application of pesticides on Guam."
- Throughout the document as appropriate the text has been modified to ensure that pesticides and herbicides are listed as likely hazardous waste related to: transportation, construction activities, firing range operations, and non-firing range operations.

J-001-064

Thank you for your comment. There are many reasons why the Marines (about half) are being moved from Okinawa. This discussion is provided in section 3.5.2 of the Socioeconomic Impact Assessment Study (SIAS) that is in Appendix F, Volume 9 of the Draft EIS. Serious crimes by military personnel in Okinawa are committed at a lower rate than the overall civilian population in Okinawa, despite reports to the contrary. Many serious crimes are based on singular incidents that are reported multiple times so that it appears to be multiple incidents.

The impacts of crimes on Guam are discussed in Volume 2 of the FEIS.

Military Buildup -Guam EPA DEIS Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder	
J-001	- 158 6	4	4- 87		Guam EPA		Traffic management plan was mentioned as one of the impact mitigation; how does such be implemented? Implemention strategic techniques/management are not being discuss in the EIS.		
J-001	- 159 6	2	2- 27	Sec. 2.2.2.1	GEPA		Purpose and Need: Determine Potable Water Demand		_
J-001	- 160	2	2- 27	Sec. 2.2.2.1	GEPA		Impact: The method and procedures in estimating the Water Demand did not consider the fire flow demand, industrial water needed for the construction activities (i.e. dust supression, concrete mixing, etc.). The 7,222 tansient customer at Apra Harbor on the Air Craft Carrier are customer of the US Navy base pursuant to Safe Drinking Water Act (SDWA) "serve at least 60 days a year". The 45 gpcd water demand for transient customers should be adjusted to comply with SDWA. Recommendation: Adjust water demand by considering the Fire Flow requirements and change the 45 gpcd to 155 gpcd and include the 7.222 from the		
J-001	- 161	2	2- 31	Table 2.2 2	GEPA		Impact - The required Maximum Daily demand of 27.72MGd did not include the water demand from the transient customers of the Air Craft Carrier. The estimated maximum water demand is 2.24 MGd. Recommendation: required maximum daily demand of 27.72 should be adjuested to 29.96 MGd.		

Comments Page 32 of 41 Military_Buildup_-Guern EPA

As noted in the SIAS: "A critical distinction when analyzing crime impacts is between the total numbers of crimes ("volume of crime") and the actual crime rate (numbers divided by population). Population increases always bring with them increases in the volume of crime, but the crime rate would increase only if new populations are disproportionately likely to commit crimes."

The DoD acknowledges that any increase in population, such as the one that these proposed actions would cause, may be accompanied by a proportionate increase in crime and social disorder. The DoD also acknowledges that widely publicized instances of military crime in Okinawa cause Guam residents to be concerned about possible repercussions on the island brought about by the increase in military population on Guam. The increase in population during the construction phase of the build up is recognized as a time for concern for increases in incidents of crime. Moreover, it is also acknowledged that the age group of many military personnel is often characterized as prone to conflicts and misbehavior. DoD educates its service men and woman on good behavior and will act promptly and rigorously to curtail any misconduct and enforce laws to protect the citizens of Guam and our military personnel.

J-001-065

Thank you for your comments. Please see Section 4.3.1.2 of the Socioeconomic Impact Assessment Study (SIAS) that is Appendix F of the DEIS for information on Probable Labor Supply Sources for the proposed action. Workers from the CNMI and FAS islands are discussed in that section.

J-001-066

Thank you for your comment. FAS crime statistics used were based upon 2006 statistics, and no information is available regarding the job status of offenders.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 162	2	2- 34	Table 2.2	GEPA		Impact: The number of construction workers at the height of the consruction can be anticipated more than 18,374 due to the volume of works with limited time. The number of tourist induced during the same period of time is 23,000/daily making the population at peak on 2014 at 270,897. Recommendation: The induced tourist population should be included in the determination of water demand. And adjust the number of temporary construction worker to reflect a meaningful and accurate number corresponding to the estimated volume of work being anticipated.	
J-001	- 163	2	2- 35	Table 2.2- 5	GEPA	Marq uez	Impact: Off-Base Water Demand - The estimated off-base water demand serve by Wells (North and Central) of 60MGd should be adjusted to meet the adjusted population as stated above. Recommendation: The projected water demand by year 2014 based on the adjusted population is 66MGd.	
J-001	- 164	2	2- 36	Table 2.2 6	GEPA		Impact: Current and Future On-Base DoD Potable Water Supply and Demand: The existing US Air Force water source comprised of 8-wells (Andersen South) 1-tunnel at Tumon Maui, and 5-wells at the Andersen AFB and 1-BPM with a total daily production of 6.5 MGd compare to 4.7MGd mentioned on Table 2.2-6. Recommendation: USAF should rehabilitate all these production wells to minimize the number of new wells to be constructed.	
J-001	- 165 6	2	2- 35	Sec. 2.2.3.1	GEPA		DoD Water Supply Source: Impact: The military will not meet the maximum daily demand of water by 2013. The military planned to reduce the pace of construction activity minimize the impact of the shortfall of water supply. Recommendation: It is recommended that construction of additional water source will commence earlier than expected to alleviate this shortfall of water supply.	

Comments Page 33 of 41 Military Buildup -Guam EP/

It is noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action.

J-001-067

Thank you for your comment.

Volume 2, Chapter 17 has been modified as follows:

- To Table 17.2â€'3. Summary of BMPs and SOPs: "Ensure all DoD personnel and contractors are trained in accordance with the Guam public law (PL) 29-26 regarding the importation, handling, use, and application of pesticides (e.g., during maintenance, pre and post construction, and general operations activities). In addition, as part of the proposed relocation, DoD will develop and implement a comprehensive Integrated Pest Management Plan (IPMP). This IPMP will encompass all activities regarding the importation, handling, storage, use, and application of pesticides. In addition, the IPMP will address the prevention of potential invasive species issues related to the transportation of materials, supplies, equipment, and personnel to and from Guam."
- To Section 17.1.2.2 Guam Environmental Protection Agency Laws and Regulations: "In addition, Public Law (PL) 29-26 addresses the importation, handling, use, and application of pesticides on Guam."
- Throughout the document, the text has been modified as appropriate to ensure that pesticides and herbicides are listed as likely

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er {last	Comment	Responder
J-001	- 166	2	2- 37	Sec. 2.2.3.2	GEPA		Non-DoD Water Supply Sources: <u>Impact</u> : The GWA estimated 41.8 MGd current projection rate is more than the actual GWA well production (37.6MGd) based on 2009 GWA Report. The descrepancy was due to secured wells. However, there are 19 wells that are consistently exceeding the Chloride level of 250 ppm that generates an average production of 5.3MGd. The water demand at the peak of construction on 2014 is 60 MGd (table 2.2-5) not to include the water demand induce by tourists (3.0MGd). The required water demand of 63 MGd. Recommendation: The 19 wells wells exceding chloride level of 250 ppm should ceased from production to protect the water lens from salt intrusion. GWA will have to provide 30.7 MGd to meet the water demand if the 19 wells is shutdown. The NGL allows GWA to pump up to 60 MGd but part of these available water is at military based. The available yield accessible to GWA is 18 MGd but part of this are inside the military fence.	
J-001	- 167 6	2	2- 38	Sec.2.2.3. 3	GEPA		Development of Alternatives to Increase DoD Water Supply Sources: Option4 : Dredge sediments from the Navy Reservoir to increase storagge capcity. Option5 : Perform deslineation Option5 : Develop[a new surface water source (e.g. Lost River). These three long term option should be elevated to the preffewred short term option to alleviate shortage of water supply and to protect the Ground Water Lens from permanent collapse due to salt intrusion.	

Comments Page 34 of 41 Millery_Buildup_-Guam EPA

hazardous waste related to: transportation, construction activities, firing range operations, and non-firing range operations.

J-001-068

Thank you for your comment. Please see response to J-001-067.

J-001-069

Thank you for your comment. Subsequent to issuing the DEIS, DoD developed sewer plans to connect future facilties to existing sewer syetm and subsequently to GWA sewer.

J-001-070

Thank you for your comment. Yes, this reference is to the GEPA Water Quality Standard.

J-001-071

Thank you for your comment. Bilge water will be pretreated then discharged into the WWTP. The biggest additional bilge oil water flow coming from CVN that has a maximum flow of 82,000 gpd, and this has been used in the assessment of the capacity of the WWTP. Based on the analysis, the Apra Harbor has enough capacity to accommodate the additional flows.

J-001-072

Thank you for your comment. As per the information contained on the referenced page of the Draft EIS, the wash water would be pre-treated before discharge. Additionally, this pre-treated volume of wash water has been included in the flow estimates to the wastewater treatment plant.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line. Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 168				Guam EPA		EIS is considering to use the Northern District Wastewater Treatment Plant in full capacity and demand projection are based on average flows. EIS must consider using the maximum flow for demand projection in order to incorporate flows caused by I/I and also must consider adding more capacity to the treatment plant to ensure that all flow must be accommodated in the treatment plant and sewer overflows impact must be avoided. Based on the 2009 GWA SSO report most of the overflows happened during heavy rains, meaning some of the existing collection systems and pump stations are not capable of handling additional loads; like existing pump design capacity, presence of inflow/infiltration, collection system pipeline sizes (undersized) and existing generator capacity.	
J-001	- 169 7	2	2-2 to 2- 17	Table 2- 1-1	Guam EPA		BMP's are being identified in this table but it seems that the most important part; on how this be implemented or the implementation policy/methods of all the BMP's are not being discussed in the draft EIS. In the construction part, EIS must provide scheduling of all projects in order for the reviewer to fully assess or identify the impact considering that the time frame for the construction period is too constraint. Project planned during the same timeframe must allow the ecosystem to recover from change.	
J-001	- 170 7	2	2- 20	1	Guam EPA		Gray water use-evaluate options for use of grey water for irrigation. Identify source and if grey water shall be pre-treated prior to use? Guam Water Quality Standards Section 5104 G explains land disposal of treated was	
J-001	- 171 7	4	4- 33		Guam EPA		Roadway projects- As mentioned, means for pre-treatment is the detention basins. Pre-treatment system designs must consider other inovative systems that are capable to treat other contaminants to ensure that water quality standard are not exceeded, considering that proximity of most of the roadways are near the body of waters.	

Comments Page 35 of 41 Military_Buildup_-Guam EPA

J-001-073

Thank you for your comment. The referenced wash water would be pretreated before discharge to the wastewater treatment plant and the estimated flow would be accommodated in the plant should the proposed military relocation program be implemented.

J-001-074

Thank you for your comment. Apra Harbor WWTP is addressed in Volume 6, Chapters 2 and 3 and takes into account all future wastewater flows into the system due to the proposed waterfront projects, including the USCG facilities. The assessment included the flows from the transient aircraft carrier that is present for only a portion of the year, which overshadows the 20 person per day USCG administrative personnel contribution to the system. There is existing wastewater infrastructure at the USCG site but it is in poor condition and would be upgraded or replaced, as necessary. The BOWTS is a pretreatment system and would be sized to meet the anticipated volume.

J-001-075

Thank you for your comment. Best management practices associated with management of any contaminated soils during the construction phase of the proposed military relocation program are included in the Hazardous Materials and Waste section (Chapter 17) of various volumes of the Final EIS.

J-001-076

Thank you for your comment. Please see response to J-001-008.

J-001-077

Thank you for your comment. Please see response to J-001-008.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 172 7		231		Guam EPA		Hagatna WWTP has been shown to have adequate capacity to this estimated increased demand DoD must also consider assessing the existing collection system including pump station; as per GWA SSO reports overflow problems arises during heavy rains. Additional flows from the military build up might worsen the overflow problems in the area especially during the rainy season. Projection of demand flows must consider the maximum flows.	
J-001	- 173	3	3- 59	item 3.2.4.3	Guam EPA		Summary of impacts- near-term water quality impact-less significant. Disagree Increase wastewater flows has a significant impact to down line sewer collection system and pump stations (P/S) causing overflows that has the potential to reach any body of waters and public health issues Currently based on GWA SSO reports, problems of overflows during rainy seasons is happening. It shoud be re-assessed for system upgrade.	
J-001	- 174	2	2- 27	Table2.2- 1	Guam EPA		UI/WW-3- The construction workforce housing could be located where a different WWTP would support the wastewater treatment needs. These potential mitigation measure is in conflict with the BMPof roadways on page 4-40 line 6 of Volume 6 stating that off island construction personnel associated with military actions are housed in community housing close to the construction sites Most of the construction activity are within the northern area; how this mitigation works? If construction workforce be housed considering other wastewater treatment plant, EIS must consider assessing which treatment plant could handle additional loads, current records shows that all GWA WWTP are not in compliance with NPDES permit.	
J-001	- 175 9		D-3	Appendix D	Guam EPA		A rivers and Harbors Act, Section 10 (33 USC 403), CWA, Section 404 and marime protection Research and Sanctuaries Act permit application would be submitted to USACE for approval and would be reviewed by <u>other regulatory agencies</u> . What specific agencies? The local permitting agencies must also be included.	
	Co	mm	ents				Page 36 of 41 Military	_BulldupGuam E

J-001-078

Thank you for your comment. Volume 2, Section 7.0 defines airspace and potential impacts as a result of military operations on Guam. Airways are established routes used by military aircraft, commercial aircraft, and general aviation aircraft. They are the flight paths on which aircraft travel through airspace similar to land highways. Air traffic refers to movements of aircraft through airspace. Safety and security factors dictate that use of airspace and control of air traffic be closely regulated. Accordingly, regulations applicable to all aircraft are promulgated by the FAA to define permissible uses of designated airspace. The FAA also controls the use of airspace. These regulations are intended to accommodate the various categories of aviation, whether military, commercial, or private aviation enthusiasts. The regulatory context for airspace and air traffic varies from highly controlled to uncontrolled within Guam and the CMNI. Less controlled situations include flights under Visual Flight Rules (VFR) or flights outside of U.S. controlled airspace. Examples of highly controlled air traffic situations are flights in the vicinity of airports where aircraft are in critical phases of flight (either take-off or landing) and flights under Instrument Flight Rules (IFR), particularly flights on high or low altitude airways. Special Use Airspace (SUA) is specially designated airspace that is used for a specific purpose and is controlled by the military unit or other organization whose activity established the requirement for the SUA. SUA in and surrounding Guam includes Restricted Areas (RAs) and Warning Areas (WAs). Under the proposed action, existing air traffic control procedures would continue. Some flight activities would be accomplished under VFR conditions and along random routes that would not impact commercial or general aviation flying. Military pilots avoid flying over populated areas as much as possible in order to minimize overflight complaints.

J-001-079

Thank you for your comment. Additional text has been added to Section 2.3.5, Volume 4.

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001-	175 9		D-3	Appendix D	Guam EPA		A rivers and Harbors Act, Section 10 (33 USC 403), CWA, Section 404 and marime protection Research and Sanctuaries Act permit application would be submitted to USACE for approval and would be reviewed by other regulatory agencies. What specific agencies? The local permitting agencies must also be included.	
J-001-	- 176 6/9				GEPA		The DEIS did not address the potential health impacts relating to the increased usage of peaking generators located next to densely populated areas. What type of operating scenarios can the DEIS utilize to reduce the usage of peaking generators in densely populated areas?	
J-001	- 177 6/9						The DEIS did mention that the Federal Exemption granted to Guam for sulfur in diesel may be lifted because of the dramatic increase in mobile and stationary sources utilizing high sulfur diesel fuel. The DEIS must conduct a feasibility study on Ultra low sulfur diesel as a alternative to reducing air pollution. The build-up may jeopardize the Federal Exemption because it did not take into consideration the military growth.	
J-001-	- 178 6/9						The DEIS did not mention an energy plan to assist in the reduction of air pollutants as it relates to power demands. The DEIS must mention the development of an energy plan to assist in the reduction of power demand which would benefit the public by a reduction of air pollutants relating to power generation	
J-001	179						The DEIS did not take into account the scenarios where peaking generators are utilized during times of high traffic volume in densely populated areas. The DEIS should evaluate high risk areas for exceedence of the National and Guam Ambient Air Quality Standards.	

Comments Page 37 of 41 Military_Buildup_-Guarn EP/

The differences between the environmental effects of mechanical and hydraulic dredging are discussed in Chapter 2, Volume 4 and Appendix D of the EIS. Mechanical dredging involves use of a clamshell or fixed bucket that excavates the dredge sediment from the harbor floor and then carries the sediment in the full bucket through the water column before lifting the bucket out of the water and placing the dredged sediment in a nearby barge or scrow. During this movement, a small fraction of the collected sediment will escape from the bucket and create suspended sediment in the lower and higher levels of the water column. On the other hand, a hydraulic dredge works solely on the harbor floor and any suspended sediment will emanate only in the lower portion of water column. As a result, the plume of suspended sediment is generally greater with use of conventional clam shell bucket as compared with a hydraulic dredge. However, use of hydraulic dredging is generally limited to soft bottom sediment on relatively flat surfaces. Mechanical dredging, which has historically been used in Apra Harbor, was chosen as the dredging method for evaluating environmental impacts as it presents the most adverse impact scenario.

A sediment plume is an inevitable effect of in-water construction activities. The Navy proposes to minimize sedimentation by using best management practices such as silt curtains and operational controls of dredging equipment. Final mitigation measures for all dredging activities will be determined and agreed upon during the permit phase of the projects.

The Kilo Wharf project and this proposed action occur in very different areas of Apra Harbor. The setting of Kilo Wharf is much more exposed to wind and wave action. The proposed action area is anticipated to be less challenging with regard to the Navy's ability to minimize environmental impacts. Chapter 11 of Volume 4 contains a detailed

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 180	8	8-8	tbl 8.2-3	GEPA		Summary of Weapons Impact Table should be followed by a narrative paragraph describing the impact criteria used for Less than Significant Impact "LS" and Significant Impact Mitigable to less than Significant "SI-M". More details must be provided to include impacts to existing and proposed activities and surmoundings, human population and natural resources; not just dicuss impacts to recreational activities. Impact reference criteria should be cited for the Weapons Impact Table.	
J-001	- 181		630	18 to 22	Guam EPA		Major haul road resurfacing, strengthening and rebuilding will be done without increasing existing impervious areas. But the roads stormwater runoff will pollute and degrade adjacent surface waters during operation after construction. This will indirectly impact living aquatic resources. The existing roads (especially Marine Corps Drive from Navy Orote facilities and from the Port of Guam) were built without installation of best management practices to treat road pollutants before discharging them in stormwater to the surface waters. Even if impervious areas are not expanded, the pollutants from the rebuilt roads need to be controlled and treated and this must be accomplished in designing pollution controls with the road design and constructing and maintaining them. The haul road plans currently appear to fail to include designs and budgets for this pollution control. The impacts on aquatic and marine biological resources of this tack of pollution control should be assessed in the DEIS.	
J-001	-182	13	636	12 to 18	Guam EPA		What are impacts to marine life from discharge of heated cooling water from a new Piti Power Plant? What mitigation is proposed?	
J-001	-183	13	638	Tb! 13.2-2	Guam EPA		Add indirect impacts from heated water discharge, if planned.	

Comments Page 38 of 41 Military Buildup -Guam EP/

analysis of the anticipated impacts and proposed mitigation for coral resources.

J-001-080

Thank you for your comment. The sampling and analysis of sediment in Apra Harbor to support the EIS was designed to generally characterize the sediments that would be dredged. Although the study was not intended to be a comprehensive analysis to support permit applications, tests for over 200 chemicals of concern were conducted. The study was suitable for EIS level of impact assessment.

Since ocean disposal is one of the dredged material management options, the sediment sampling and analysis will be conducted in accordance with 40 CFR Parts 225 and 227. The sampling and analysis plan will be reviewed and approved by USEPA and US Army Corps of Engineers. These regulatory agencies control the review process and may consult with Guam EPA. The Navy does not have input on the permit application review process.

No specific chemicals of concern were mentioned in your comment, and DoD is not able to respond on whether the analysis was conducted in historical sampling or is proposed in future sampling.

J-001-081

Thank you for your comment. A dredged material management plan will be prepared and implemented as in recent Navy dredging projects, including the Alpha-Bravo Wharf Improvements project (Milcon P-431), the Kilo Wharf Extension (Milcon P-502), and Inner Apra Harbor maintenance dredging.

J-001-082

Thank you for your comment. The dredged material upland placement

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	- 184 6	13	13- 53	29 & 30	Guam EPA		Constructing 22 new production wells without having adequate knowledge of impacts on the GNLA could lead to impacts on Guam's sole source aquifer and the public that depend on it. Before finalizing preference on alternatives, GWA and Guam EPA hydrogeologists must be consulted.	
J-001	·1 8 5	13	648	30 to 32	Guam EPA		Additional treatment for bacteria and ammonia or a deeper outfall must be planned to conform to Guam water Quality Standards.	
J-001	-186	ήз	64		Guam EPA		BMP's should include stoppage of dredging and related activities that stress corals in the marine environment when and where a coral bleaching event happens.	
J-001	-187	13	67	9	Guam EPA		Alt. 3 cannot be assessed for impacts unless more information on living resources at the discharge area is provided.	
J-001	- 188	13	77	ТЫ 13.2-7	Guam EPA		Major haul road resurfacing, strengthening and rebuilding will be done without increasing existing impervious areas. But the roads stormwater runoff will pollute and degrade adjacent surface waters during operation after construction. This will indirectly impact living aquatic resources. The existing roads (especially Marine Corps Drive from Navy Orote facilities and from the Port of Guam) were built without installation of best management practices to treat road pollutants before discharging them in stormwater to the surface waters. Even if impervious areas are not expanded, the pollutants from the rebuilt roads need to be controlled and treated and this must be accomplished in designing pollution controls with the road design and constructing and maintaining them. The haul road plans currently appear to fail to include designs and budgets for this pollution control. The impacts on aquatic and marine biological resources of this tack of pollution control should be assessed in the DEIS.	

Comments Page 39 of 41 Military_Buildup_-Guam EPA

sites would be located over aquifers not used for supplying drinking water; thus, any effluent that might percolate into the aquifer would not affect regional groundwater drinking quality or quantities. A leachate pathway analysis was conducted for dredged material placement at the Field 5 upland placement site as part of the Environmental Assessment (EA) for Alpha and Bravo Wharves. No contaminants of concern were discovered in the leachate that would exceed the Guam Environmental Protection Agency (GEPA) Water Quality Standards for groundwater, and no engineering controls at the upland placement site were required. A dewatering plan will be submitted to the GEPA prior to placing dredged material in an upland site.

J-001-083

Thank you for your comment. The species of concern listing by NMFS is a formal designation that includes species that NMFS has some concerns regarding status and threats, but for which insufficient information is available to indicate a need to list the species under the ESA. Guam-listed species include "local" species, which have been identified by the legislative authority in the Territory of Guam as special status, even though they are not listed under the ESA. Volume 9, Marine Species Profiles, includes the marine species identified by GDAWR as Species of Greatest Conservation Need.

J-001-084

Thank you for your comment. Sediment samples within the proposed dredging areas were analyzed according to U.S. Environmental Protection Agency and U.S. Army Corps of Engineers testing criteria. As discussed in the EIS (Chapters 2 and 4 of Volumes 2 and 4), preliminary sampling results indicate that all contaminant parameters that were tested with the exception of nickel were below the Effects Range Low (ER-L) level. Nickel is a substance that is naturally occurring in the environment. The study results suggest that the materials to be dredged would not require special handling and would be suitable for upland

Military_Bulldup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl. Fig	Org	Com ment er (last	Comment	Responder
J-001	- 189	2		line 31-32	GEPA		Central: "Proposed construction activities in northern Guam, Apra Harbor, and southern Guam while likely concurrent, are too far from central Guam to contribute to collective impacts." Has this analysis taken to account construction malerial supply to the civilian sector development such as the Bay View 5 Hotel in Tumon and other civilian projects island-wide that may be on-going? Is there going to be enough construction supplies and materials to meet the demand? How would this supply shortage be mitigated?	
J-001	- 190	3	5	Table 3.1.1	Guam EPA		Under Guam Law new extraction or use of Guam Water (e.g., wells, river withdrawals) needs written approval from Guam Waterworks Authority.	
J-001	-191	3	21	1 to 5	Guam EPA		Add note on Federal Consistency requirements and their application on Federal property.	
J-001	-192	3	9	35 to 38	Guam EPA		Add requirements of Environmental Protection Plan approval by GEPA.	
J-001	-193	4	25	30 to 35	Guam EPA		More specific information on locations of and quantities/acres of resources to be permanently lost must be included. What wetlands are to be permanaently lost?	
J-001	- 194 9	1	D-2	line 23	Guam EPA		Mechanical dredging methodology should be re-assessed due to prior siltatation plume problems using this dredging methodology at the Kilo Wharf project. Best Management Practices, changes in operational procedures, engineering control measures with the proposed mechanical dredging should be modified or changed to control and minimize siltation.	
J-001		app endi ces	D- 18	fig. D-4	Guam EPA		Upland Placement Site Locations: Shows dewatering site Commercial Port (East & West). The DEIS notes that this area is not covered in the DEIS because it is on non-DOD land. It is important to note that according to Parson's Port Plan Expansions this site is also identified to be used as part of the stormwater disposal area. What is the cumalative impact to ground water infiltration if dewatering and stormwater facilities are constructed at this location?	
	Co	mm	ents				Page 40 of 41 Military	BuildupGuam EPA

placement for beneficial reuse or ocean disposal (although the ocean disposal permitting process would require separate analysis and toxicity testing). Additional testing will occur during the permitting process and a dredged material management plan will be developed.

J-001-085

Thank you for your comment. All dredged material would be be tested according to USACE and USEPA criteria prior to disposal and potential reuse. Text has been clarified in the document.

J-001-086

Thank you for your comment. The Navy has prepared a Construction and Demolition (C&D) Debris Reuse and Diversion Study for DOD Bases, Guam that addresses waste characterization, processing, recycling and disposal of construction debris. Information from this study has been used to update the FEIS.

The study considers the following alternatives: 1) Contractors would continue to process all C&D debris, and DoD would construct a composting facility to process green waste and 2) DoD would construct a C&D debris central processing facility and a composting facility to process green waste.

Through project specific contractual requirements, DoD contractors would be required to process and divert 50% of C&D debris that is generated on each project. Another alternative would be for the DoD to construct a central processing facility that would be used to recover and reuse or recycle scrap metal, concrete (without lead-based paint), asphalt concrete, and untreated wood. Contractors would be required to haul C&D to this facility. Based on the C&D debris composition assumed in the study, the Navy will be able to achieve a C&D debris waste diversion goal of greater than 50% by the end of fiscal year 2015. A site for the central processing facility is currently being evaluated but would

Military_Buildup_-Guam EPA_DEIS_Comments as of 11 Feb 2010

	Vol	Ch	Pg	Line, Tbl, Fig	Org	Com ment er (last	Comment	Responder
J-001	-196	5			Guam EPA		Losses of and impacts to Wetland Resources must be added to this chapter.	
J-001	- 197	E			Guam EPA		Appendix E (HEA). Major concerns remain to be addressed. Regulatory agencies question use of coral cover as the only basis to estimate functional losses due to dredging; use of artificial reefs as proxy mitigation; lost reef cost estimates; recovery projections; use of valuation studies that do not apply to the Apra Harbor impact area; etc. The major inconsistencies in marine ecosystem function assessments and failures of the Navy contractors' approach are evident from results of the parallel study by regulatory agencies. Agencies require revision to this draft EIS, as discussed in the CVN Working Group correspondence. DOD response to these comments continues to be unacceptable.	
J-001	- 198 9	H			Guam EPA		Appendix H appears to only address impacts of actions outside federal lands and ignores the requirement of addressing impacts on concurrent jurisdictions of regulatory agencies that are part of the Federal Consistency process and possible impacts of actions on federal lands that affect the coastal zone and its resources.	

Comments Page 41 of 41 Military_Buildup_-Guam EPA

most likely be located in northern Guam. Disposal of C&D debris that is not divertible or recyclable will be disposed at the Navy Hardfill at Apra Harbor. The study also evaluates the construction of a composting facility to handle green waste generated by land clearing activities required for new development.

J-001-087

Thank you for your comment. When the plans for the dredging required to support the berthing of the aircraft carrier and the location for the disposal of the dredged material have been finalized, they will be coordinated with the Guam EPA.

J-001-088

Thank you for your comment.

J-001-089

Thank you for your comment. All imported aggregates will comply with the established local rules and regulations for importing. The FEIS has been updated to include this language in the geology and soil resources chapter of Volume 2.

J-001-090

Thank you for your comment. The Former SRF area is owned by the Navy and is not in dispute. The lease with GEDA would be renegotiated to mutually acceptable terms and a smaller footprint even if Former SRF was not being considered as an aircraft carrier berthing alternative. A new assessment of aircraft carrier impacts at Former SRF is not required after the lease renegotiation.

J-001-091

Thank you for your comment. Chapter 1 of Volume 4 outlines the reasons why the proposed action includes a transient aircraft carrier

berth on Guam. Because of the reasons described in the purpose and need, the No Action Alternative is not considered a feasible alternative. The EIS acknowledges there would be impacts associated with the proposed construction of a new deep-draft wharf in Apra Harbor to accommodate a transient nuclear powered aircraft carrier. Dredging is required to provide the minimum depth requirements to safely navigate the aircraft carrier. The DoD undertook several measures to avoid environmental impacts, including choosing a channel alignment that avoided dredging of coral shoals, reducing the aircraft carrier turning basin radius, and choosing a parallel to shore wharf alignment with a reduced clearance for the aircraft carrier. Best management practices, such as the use of silt curtains and operational dredging controls, and proposed mitigation measures, as described in Chapter 11 of Volume 4, would reduce and mitigate impacts from dredging.

J-001-092

Thank you for your comment.

The upland disposal sites will remain active for future military projects, thus no closure plan is proposed to be drafted.

J-001-093

Thank you for your comment. The dredged material upland placement sites would be located over aquifers not used for supplying drinking water; thus, any effluent that might percolate into the aquifer would not affect regional groundwater drinking quality or quantities. A leachate pathway analysis was conducted for dredged material placement at the Field 5 upland placement site as part of the Environmental Assessment (EA) for Alpha and Bravo Wharves. No contaminants of concern were discovered in the leachate that would exceed the Guam Environmental Protection Agency (GEPA) Water Quality Standards for groundwater, and no engineering controls at the upland placement site were required.

A dewatering plan will be submitted to the GEPA prior to placing dredged material in an upland site.

J-001-094

Thank you for your comment. DoD and regulatory agencies are equally concerned about preventing contamination of surface waters and groundwater (particularly drinking water aguifers). The EIS describes numerous programs and actions that will be taken to protect surface waters and groundwater from stormwater runoff. Construction of new facilities will use Low Impact Development (LID) principles to the extent practical. LID is a design philosophy that seeks to reduce the impact to the environment from new construction projects through the reduction of impervious surfaces. LIDs principles incorporate the design of facilities with the use of native vegetation, pervious (porous) surfaces to reduce storm water runoff and encourage recharge of groundwater, and water conservation. DoD is currently conducting a LID study that will identify specific types of alternative designs that can be incorporated into the construction of facilities associated with the buildup.DoD is also preparing a stormwater pollution prevention plan (SWPPP) and will apply for permits that regulate stormwater discharges during construction. The permit and plan is focused on reducing the amount of earth and soil that is exposed to stormwater during earth-disturbing activities (such as land clearing and grading), providing stabilization of soils during construction through the use of ground covers, and sediment ponds and traps/screens to reduce pollutants getting into storm runoff and from percolating into the ground. These plans also have specific requirements for containment of potential pollutants at construction sites (such as storage areas for equipment fuel). Lastly, DoD is developing a construction and demolition (C&D) waste management plan in consort with the stormwater construction plan that calls for the use of mulch on exposed soils, mulch that will be generated during the clearing of trees and low growth during land clearing activities. Once construction is complete, a SWPPP will be developed to control stormwater runoff and

infiltration from base operations. This is being done on a regional DoD Guam-wide scale, and has the involvement of Guam EPA.

J-001-095

Thank you for your comment. EIS changed to reflect turbidity as the water quality indicator for exceedances, and that a water quality plan would be submitted to the GEPA.

J-001-096

Thank you for your comment. Information was added to the EIS to reflect that prior to disposal of dredge materials, a sampling and analysis plan would be submitted to the GEPA.

J-001-097

Thank you for your comment. Table 4.2-2 has been updated to include sampling results for TBT (trinbutylin).

J-001-098

Thank you for your comment. Sentence in question has been deleted as the preceding sentence in the EIS states testing would occur prior to dredging.

J-001-099

Thank you for your comment. As described in this section, testing of material would occur before dredging. Copper is one of the analytes that will be tested. If testing indicates the potential for enrichment, source identification could occur.

J-001-100

Thank you for your comment.

To address the concern of USFWS and USEPA that coral cover as a single metric is inadequate, the revised HEA model is based on percent coral cover plus rugosity (horizontal: vertical measurements) to capture the 3-D complexity of the reef. The DEIS includes both 2-D and 3-D information, which provides value to the DEIS. In general the 2-D data is used for the Affected Environment section, while the 3-D data is used in the Environmental Consequences, HEA model, Section 11.2.2.5.

J-001-101

Thank you for your comment. The Navy is considering a suite of potential options for compensatory mitigation for the loss of coral in Outer Apra Harbor as identified in Volume 4, Section 11.2.2.7. Agencies have not been able to provide data to support alternative mitigation projects. The artificial reefs were supported by Army Corps in a Hawaii project and elsewhere. This will continue to be a point of contention that will be addressed in negotiations outside of the EIS document.

As stated by the Department of the Army (17 Feb 2010 response to DEIS): "the employed survey methodology to assess coral reef resources within the proposed CVN wharf and dredge project area has been an extremely contentious subject. Functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral reef aquatic resource functions, as would ideally be utilized for the proposed action for Section 10/404 compensatory mitigation purposes, is not currently available. Considering that our office will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment, we have engaged our Engineer

Research and Development center (ERDC) to provided an independent technical review of the adequacy of the employed methodology to date and recommendations for improvements, if necessary. Preliminarily, ERDC has determined that while the methodology is scientifically valid and statistically defensible, a more intensive level of data collection may be necessary to adequately measure habitat function for compensatory mitigation purposes. We expect a more specific and detailed accounting of their review in the coming weeks."

The Navy will continue to work with the USACE and EPA/GEPA and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

J-001-102

Thank you for your comment. Commitments to mitigation will be included within the ROD. The Navy will continue to work with the USACE on project specific mitigation in regards to Section 10/404 permit requirements.

J-001-103

Thank you for your comment. Dollar et. al., 2009 was the most recent reference of many for the Affected Environment Section. The Environmental Consequences Section had several key recent sources, including MRC 2009, SEI 2009, DEI 2009, Navy 2009a, Navy 2009, and Dollar et. al 2009.

In regards to survey depth, the Navy has already overestimated the impacts to the dredged area in depth and laterally. See DEIS Section 11.2.2.5, Page 11-76. The Navy does not plan to survey deeper than 60 feet. The indirect impacts are addressed in the EIS and HEA in detail. There is supporting text and tables assessing indirect impacts, including Figure 11.2-3, which depicts the estimated limits of sediment accumulation exceeding 6 mm for the duration of the dredging project

within the Aircraft Carrier Fairway and Berthing Area.

As stated by the Department of the Army (17 Feb 2010 response to DEIS): "the employed survey methodology to assess coral reef resources within the proposed CVN wharf and dredge project area has been an extremely contentious subject. Functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral reef aquatic resource functions, as would ideally be utilized for the proposed action for Section 10/404 compensatory mitigation purposes, is not currently available. Considering that our office will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment, we have engaged our Engineer Research and Development center (ERDC) to provided an independent technical review of the adequacy of the employed methodology to date and recommendations for improvements, if necessary. Preliminarily, ERDC has determined that while the methodology is scientifically valid and statistically defensible, a more intensive level of data collection may be necessary to adequately measure habitat function for compensatory mitigation purposes. We expect a more specific and detailed accounting of their review in the coming weeks."

The Navy will continue to work with the USACE and EPA/GEPA and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

J-001-104

Thank you for your comment.

Volume 2, Chapter 11, Affected Environment provides a description of marine biological resources (i.e. marine flora, invertebrates, and

associated EFH; Essential Fish Habitat; Special-status Species; and Non-native Species) in Apra Harbor potentially affected by the proposed action. Volume 4, Chapter 11, evaluates the same resources; however, with greater emphasis on providing background on the coral reef ecosystems as part of the EFH (see 11.1.2). The impact analysis, Volume 4, Environmental Consequences, included all marine biological resources within the total dredge impact area (i.e. direct footprint and indirect sediment resuspension footprint).

J-001-105

Thank you for your comment. The Final EIS analysis reflects turbidity, not TSS.

J-001-106

Thank you for your comment. Impact analysis was conducted for direct and indirect effects associated with increased in-water traffic, including propeller wash. See Section 11.2.2.2, pp. 11-67, 11-69, 11-96, and Table 11.2-13, pp. 102-103. Although vessel traffic will be increasing with the proposed action, considering the depth of the channel will be increased, it is anticipated that less resuspension of materials will be seen from "prop wash" in the long-term.

J-001-107

Thank you for your comment. Understandably, artificial reefs are not an ideal choice; however, given the lack of other historical examples that would lead an action agency to determine success criteria, mitigation options are limited. Erosion rates have been studied and established; however, none of these studies tie a level of sediment reduction to a predicted area of coral restoration. Unfortunately, there is very little mitigation information outside of artificial reefs that could be used to design a compensatory mitigation project. In future collaborations it would be helpful if those agencies could provide science-backed

recommendations for viable, success criteria driven mitigation projects.

That being said, to compensate for the loss in ecological service provided by coral reef ecosystem, upland reforestation (to improve nearshore water quality), artificial reefs (to provide increased fish habitat) or a combination of these and other compensatory mitigation alternatives will be considered by the Navy to comply with federal laws that protect coral resources.

The Navy will continue to work with the USACE and EPA/GEPA and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

As stated by the Department of the Army (17 Feb 2010 response to DEIS): "the employed survey methodology to assess coral reef resources within the proposed CVN wharf and dredge project area has been an extremely contentious subject. Functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral reef aquatic resource functions, as would ideally be utilized for the proposed action for Section 10/404 compensatory mitigation purposes, is not currently available. Considering that our office will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment, we have engaged our Engineer Research and Development center (ERDC) to provided an independent technical review of the adequacy of the employed methodology to date and recommendations for improvements, if necessary. Preliminarily, ERDC has determined that while the methodology is scientifically valid and statistically defensible, a more intensive level of data collection may be necessary to adequately measure habitat function for compensatory

mitigation purposes. We expect a more specific and detailed accounting of their review in the coming weeks."

J-001-108

Thank you for your comment. Volume 6, Chapter 13 of the FEIS includes a detailed discussion of impacts to marine waters from the increased wastewater discharge flows resulting from the proposed use of NDWWTP to treat DoD-generated wastewater from the new Marine Corps base..

J-001-109

Thank you for your comment. During the construction phase the additional flows over the design capacity can be treated by adding chemical coagulants or increasing surface overflow rate. A separate study was performed to identify the process improvement requirements for NDWWTP to meet water quality standards. The study was completed in January 2010 after the DEIS was published. The study findings are included in the FEIS. DoD has committed to arrange 3rd party funding via a special private entity to fund the necessary upgrades to NDWWTP but the details of the arrangements are preliminary are discussed in FEIS.

J-001-110

Thank you for your comment. The NDWWTP evaluation study recommended to implement chemically enhanced primary treatment (CEPT) to meet interim flows that exceed the plant capacity. With CEPT, the existing plant will operate with higher flows and meet effluent requirements. The permit needs to be updated, and DoD is working with GWA and EPA Region IX to address this permit modification need. It is expected that requirements related to interim flows to the NDWWTP until repairs and upgrades are completed at the plant will be addressed in an enforcement order to be issued by EPA Region IX to GWA.

As per USEPA reliability classification, NDWWTP is a Class III facility and requires at least two primary clarifiers. Also per EPA reliability classification there shall be sufficient number of units of size such that the capacity of 50% of the total design flow will be maintained with the largest unit out of service. The NDWWTP meets the requirements of the permit.

J-001-111

Thank you for your comment. DoD agrees with your comment. The stand alone DoD WWTP alternative is only a potential long-term alternative and only covered programmatically within this DEIS. If this alternative is pursued, future NEPA reviews would be required at the project-specific level and would address the issues raised in your comment.

J-001-112

Thank you for your comment. The DoD is considering several options for disposal of dredged material, including upland placement, ocean disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts from using dredged material for reuse projects will be conducted during the permitting phase.

The Navy acknowledges potential for their existing and future coastal

facilities to be adversely affected by sea level rise, inundations from more extreme storm events and other consequences of climate change. Risk assessment methodologies and technologies are being developed to assess the potential impacts on existing facilities. The adaptation plans you refer to have not been developed.

J-001-113

Thank you for your comment. The DoD is considering several options for disposal of dredged material, including upland placement, ocean disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts from using dredged material for reuse projects will be conducted during the permitting phase.

J-001-114

Thank you for your comment. Bicycle access is allowed on all roadways which connect any pedestrian and vehicle facilities. The new Marine Base has planned for pedestrian and bicycle access.

J-001-115

Thank you for your comment. The Navy acknowledges there is potential for their existing and future coastal facilities to be adversely affected by sea level rise, inundations from more extreme storm events and other consequences of climate change. However, predictive models on future

sea level rise are subject to variability, due in part to unknown future greenhouse gas emissions. The variability increases with the period of time being assessed. Risk assessment methodologies and technologies are being developed to predict the potential impacts of climate change on existing Navy coastal facilities. As new design criteria relevant to climate change are adopted by the Navy, they will be incorporated into project design.

J-001-116

Thank you for your comment. Potable water from shore is needed for consumption, laundries, food preparation, and some other shipboard activities such as cooling water for shipboard systems. Sea water is used for toilet flushing, deck washing, and various shipboard industrial activities. Therefore, potable water versus wastewater demand on a ship is not equal. Additionally, estimates for water and wastewater demand, whether from a ship or ashore, use different factors as assumptions for water use per person versus wastewater generation per person.

J-001-117

Thank you for your comment. The CVN has backup pumps for pumping wastewater. The characteristics of the wastewater from the CVN and other transient ships is similar to domestic sewage from the Navy base, but since sea water is used for toilet flushing and some industrial operations/systems onboard military ships, the wastewater is more saline than typical domestic wastewater. Additionally, because ships use piping made of high percentages of copper and nickel because these materials are more resistant to corrosion from sea water than other types of piping, there are higher concentrations of copper and nickel in ship sewage. Ships also use brass fittings and pumps, and sacrificial zinc anodes in wastewater tanks for corrosion resistance, so these materials also contribute higher concentrations of copper, nickel and zinc to ship wastewater than found in typical domestic sewage. Bilge water

generated by ships is also comprised of salt water, and bilge systems also use copper/nickel piping, brass pumps and fittings, and zinc anodes. Bilge water contains oil, and is pretreated ashore before being pumped to the Navy sewage treatment plant for further treatment. Although salt water and metals are expected in higher concentrations from ship wastewater, due to the transient nature of ship visits and percentage it would make in the overall flows to the Navy Apra Harbor wastewater treatment plant, is not expected to impact treatment plant capacity or capabilities at the plant. This is discussed in Volume 6, Chapters 3 and 13.

J-001-118

Thank you for your comment. Please see the response to J-001-094.

J-001-119

Thank you for your comment. Volume 2, Chapter 17 estimates the quantities of hazardous waste that may be used by the proposed DoD military expansion on Guam. In addition, with each proposed activity (construction, training, etc.) the types of hazardous substances anticipated for use with that activity are also discussed. Volume 3, Chapter 17 presents similiar information for the CNMI.

J-001-120

Thank you for your comment. The Navy acknowledges there is potential for their existing and future coastal facilities to be adversely affected by sea level rise, inundations from more extreme storm events and other consequences of climate change. However, predictive models on future sea level rise are subject to variability, due in part to unknown future greenhouse gas emissions. The variability increases with the period of time being assessed. Risk assessment methodologies and technologies are being developed to predict the potential impacts of climate change on existing Navy coastal facilities. As new design criteria relevant to

climate change are adopted by the Navy, they will be incorporated into project design.

J-001-121

Thank you for your comment. Aggregate materials would be imported only for use on roadways. Approximately 140,000 tons of aggregate material would be imported from Japan. Fill for other projects would be generated on-site, whenever possible, or would come from cut soil at near-by projects. Likewise, cut soil would be re-used at the same site or at near-by projects.

The EIS has been updated to reflect this information.

J-001-122

Thank you for your comment. Please see the response to J-001-094.

J-001-123

Thank you for your comment. Volume 2 and 3, Chapters 17 estimate the types and volumes of hazardous waste expected to be generated by the potential DoD military expansion on Guam and CNMI respectively.

J-001-124

Thank you for your comment. No mention of "Public Utilities Agency" in the geology and soil chapter (3) can be found. There is no page 83, as the Chapter is only 28 pages long. As a result, no change to the EIS was made.

J-001-125

Thank you for your comment. The makeup of the dredged material is such that it will not fuse into concrete-like rock when rained on.

J-001-126

Thank you for your comment. In the FEIS, Volume 2, Chapter 3, Section 3.2.2.3 was edited to include the beneficial impact of the re-use of dredged material.

J-001-127

Thank you for your comment. Definition of nearshore waters revised in Section 4.1.1.4.

J-001-128

Thank you for your comment. This section includes an analysis of potential direct and indirect impacts during construction and from operations.

J-001-129

Thank you for your comment. The Guam Stormwater Management Manual would be included in the planning, design, and construction of all roadways.

J-001-130

Thank you for your comment. Text reflects the proposed dewatering site on Orote Peninsula would be over an aquifer that is not used for drinking water production.

J-001-131

Thank you for your comment. Please see the response to J-001-094.

J-001-132

Thank you for your comment. This section includes an analysis of potential direct and indirect impacts during construction and operation.

J-001-133

Thank you for your comment. The Guam Stormwater Management Manual would be included in the planning, design, and construction of all roadways.

J-001-134

Thank you for your comment. The text has been revised to state that the dewatering site on Orote Peninsual would be over an aquifer that is not used for groundwater production.

J-001-135

Thank you for your comment. Please see the response to J-001-094.

J-001-136

Thank you for your comment. However, the area being referred to in your comment is unclear. Your page number reference does not correspond to pages in the DEIS.

J-001-137

Thank you for your comment. The DoD is considering several options for disposal of dredged material, including upland placement, ocean disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts

from using dredged material for reuse projects will be conducted during the permitting phase.

J-001-138

Thank you for your comment. A sediment plume is an inevitable effect of construction activities. The Navy proposes to minimize sediment plumes using best management practices of silt curtains and operational controls of dredging equipment. Mitigation measures will be determined and agreed upon during project permitting. Potential BMPs and mitigation are presented in Volume 7, Tables 2.1-1 and 2.2-1, respectively.

J-001-139

Thank you for your comment. A sediment plume is an inevitable effect of construction activities. The Navy proposes to minimize sediment plumes using best management practices of silt curtains and operational controls of dredging equipment. Mitigation measures will be determined and agreed upon during project permitting. Potential BMPs and mitigation measures are presented in Volume 7, Tables 2.1-1 and 2.2-1, respectively. Of note, the Kilo wharf project and this proposed action occur in very different areas and the environmental challenges with dealing with the two areas are anticipated to be different with the proposed action areas being less challenging.

J-001-140

Thank you for your comment. Text has been revised to discuss the presence of an aquifer that is not used for drinking water production beneath the dewatering site on Orote Peninsula.

J-001-141

Thank you for your comment. Additional text has been added regarding the priority to utilize dredged material (DM) for beneficial purpose. Beneficial reuse is preferred and would be examined on a case-by-case

basis. Receiver of DM would need to be responsible for disposal or reuse of DM. An upland placement study examined several opportunities for beneficial reuse of DM to include use of DM as landfill cover and to support Port Authority of Guam projects.

J-001-142

Thank you for your comment. The DoD is considering several options for disposal of dredged material, including upland placement, ocean disposal, and beneficial uses. The EIS specifically mentions shoreline stabilization for the proposed aircraft carrier wharf, fill of berms and for military firing ranges, and fill for the expansion of fast land to support new commecial port cargo handling at the Port Authority of Guam, as discussed in Sec.2.3.5.1, Chapter 2, Volume 4. Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts from using dredged material for reuse projects will be conducted during the permitting phase.

J-001-143

Thank you for your comment. Volume 4, Section 9.2.2 and Table 9.2-3 will be expanded to mention the loss of the existing recreational resources at the proposed wharf location at Polaris Point.

J-001-144

Thank you for your comment. Mangroves will not be impacted in the proposed action and all impacts to Waters of the U.S. will be under a

permit from the Corps of Engineers that requires a complete evaluation of impacts and mitigation.

J-001-145

Thank you for your comment. On pages 10-9 and 10-10 of Volume 4 it is noted that during typhoons surface water movements may be towards mangroves.

J-001-146

Thank you for your comment.

This was a PDEIS comment and the initial response has not changed. The data from the quantitative fish and coral surveys performed in 2009 for Apra Harbor were incorporated and evaluated in the DEIS. The agencies still have not provided data to support this statement and documentation of the examples given have not been identified within the project area. NEPA is based on the best scientific information currently available, not unsubstantiated assumptions.

The 2009 survey's covered areas beyond the impact area, so even if these special or unique fish and coral species were present, which has not been justified by any data, it is not clear that they occur in the dredge footprint and would be affected by the dredging. As pointed out in the discussion of all reports discussing indirect effects, it is clear that the study area is routinely subjected to high levels of sediment stress, and hence all inhabitants must be pre-adapted to such conditions. Thus, if these "special or unique" species occur outside of the direct impact zone, it is not likely that they would be significantly impacted. Additionally, unless these species have been identified as a legally recognized special-status species, they are afforded no additional level of protection or consideration than other coral (or invertebrate) or fish species in that area. Dredging activities in the Apra Harbor Channel will be permitted by the USACE and will include mitigation measures and BMPs that will

require maximum protection practicable during this operation.

As stated by the USACE (17 Feb 2010, No. 8 Methodology, comment on DEIS), the Navy employed survey methodology to assess coral reef resources has been an extremely contentious subject as the functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. The USACE will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment. The USACE has requested independent technical review of the adequacy of the employed methodology to date and provide recommendations for improvements, if necessary.

The Navy will continue to work with the USACE and EPA/GEPA, and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

J-001-147

Thank you for your comment.

This is a PDEIS comment that was addressed and has not changed. Qualitative and quantitative assessment of reef fish and coral communities have been completed for Apra Harbor. This information (including diversity and abundance) was incorporated into the DEIS and evaluated. No nocturnal surveys are planned by the Navy.

See response to comment J-001-146.

J-001-148

Thank you for your comment.

This is an ERDEIS and PDEIS comment that was addressed

appropriately and has not changed. The species identified by the commenter were mentioned throughout the PDEIS and the ERDEIS. Please read Volume 2, Chapter 11.1.7, Chapter 11.2.2.3, Table 11.2-6, Volume 4 (page 11-31 to 11-44), and Tables 11.2-2, 11.2-3, and 11.2-4, which address these specific concerns. This information was carried over into the DEIS. Information on sea turtle densities and migratory patterns to foraging areas within Sasa Bay is lacking; however, high concentrations were assumed based on available data and evaluated in the DEIS. Mitigation measures and BMPs will be required by USACE permits that will offer the maximum protection practicable during this operation.

Fish and invertebrate surveys were completed and included in the DEIS. Hammerhead sharks, and their rare spawning occurrences were also addressed in the ERDEIS, PDEIS and DEIS. See response to comment J-001-146.

J-001-149

Thank you for your comment. Apra Harbor was previously a dredged, working, commercial and DoD Harbor where policies, procedures, mitigation measures and BMPs employed by the Navy and commercial uses have minimized impacts and helped the ecosystem thrive for 60-years. Jade Shoals may meet all four criteria of a HAPC site. Two of the criteria identify the habitat as being sensitive to human-induced environmental degradation and potentially stressed by development activities. The data collected is sufficient for NEPA decision making.

The Navy will continue to work with the USACE and EPA/GEPA and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

J-001-150

Thank you for your comment. This comment was addressed during

the PDEIS response session.

J-001-151

Thank you for your comment.

As stated by the Department of the Army (17 Feb 2010 response to DEIS): "the employed survey methodology to assess coral reef resources within the proposed CVN wharf and dredge project area has been an extremely contentious subject. Functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral reef aquatic resource functions, as would ideally be utilized for the proposed action for Section 10/404 compensatory mitigation purposes, is not currently available. Considering that our office will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment, we have engaged our Engineer Research and Development center (ERDC) to provided an independent technical review of the adequacy of the employed methodology to date and recommendations for improvements, if necessary. Preliminarily, ERDC has determined that while the methodology is scientifically valid and statistically defensible, a more intensive level of data collection may be necessary to adequately measure habitat function for compensatory mitigation purposes. We expect a more specific and detailed accounting of their review in the coming weeks."

The Navy will continue to work with the USACE and EPA/GEPA and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

J-001-152

Thank you for your comment. This is a PDEIS comment that was previously addressed.

See response to J-001-146.

J-001-153

Thank you for your comment.

The spring surveys, and comparative surveys, covered areas beyond the impact area so even if these species were present, which has not been justified by any data, it is not clear that they occur in the dredge footprint and would be affected by the dredging. As pointed out in the discussion of all reports discussing indirect effects, it is clear that the study area is routinely subjected to high levels of sediment stress, and hence all inhabitants must be pre-adapted to such conditions. Thus, if these "rare" species occur outside of the direct impact zone, it is not likely that they would be permanently eliminated from the area. Hence, without further work to elucidate the actual presence and exact location of the undocumented rare species, these comments are not relevant. Additionally, unless these coral (or other invertebrate) species have been identified as a legally recognized special status species, they are afforded no additional level of protection or consideration than other coral (or invertebrate) species in that area.

As stated by the USACE (17 Feb 2010, No. 8 Methodology, comment on DEIS), the Navy employed survey methodology to assess coral reef resources has been an extremely contentious subject as the functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. The USACE will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment. The USACE has requested

independent technical review of the adequacy of the employed methodology to date and provide recommendations for improvements, if necessary.

The Navy will continue to work with the USACE and EPA/GEPA, and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

J-001-154

Thank you for your comment. This is a PDEIS comment that was previously addressed.

There is no discharge permitted in Guam waters. Please see Navy Policy and Ballast Water Management, Volume 2, Page 11-29

J-001-155

Thank you for your comment. The spring surveys, and comparative surveys, covered areas beyond the impact area, so even if these species were present, which has not been justified by any data, it is not clear that they occur in the dredge footprint and would be affected by the dredging. As pointed out in the discussion of all reports discussing indirect effects, it is clear that the study area is routinely subjected to high levels of sediment stress, and hence all inhabitants must be pre-adapted to such conditions. Thus, if these "rare" species occur outside of the direct impact zone, it is not likely that they would be permanently eliminated from the area. Hence, without further work to elucidate the actual presence and exact location of the undocumented rare species, these comments are not relevant. Additionally, unless these coral (or other invertebrate) species have been identified as a legally recognized special status species, they are afforded no additional level of protection or consideration than other coral (or invertebrate) species in that area. As stated by the USACE (17 Feb 2010, No. 8 Methodology, comment on DEIS), the Navy employed survey methodology to assess coral reef

resources has been an extremely contentious subject as the functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. The USACE will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment. The USACE has requested independent technical review of the adequacy of the employed methodology to date and provide recommendations for improvements, if necessary. The Navy will continue to work with the USACE and EPA/GEPA, and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

J-001-156

Thank you for your comment. The Navy will continue to work with the USACE and EPA/GEPA and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

As stated by the Department of the Army (17 Feb 2010 response to DEIS): "the employed survey methodology to assess coral reef resources within the proposed CVN wharf and dredge project area has been an extremely contentious subject. Functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral reef aquatic resource functions, as would ideally be utilized for the proposed action for Section 10/404 compensatory mitigation purposes, is not currently available. Considering that our office will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment, we have engaged our Engineer Research and Development center (ERDC) to provided an independent technical review of the adequacy of the employed methodology to date and recommendations for improvements, if necessary. Preliminarily,

ERDC has determined that while the methodology is scientifically valid and statistically defensible, a more intensive level of data collection may be necessary to adequately measure habitat function for compensatory mitigation purposes. We expect a more specific and detailed accounting of their review in the coming weeks."

J-001-157

Thank you for your comment. Regarding whether there are enough resources on Guam to handle significant increase in the disposal of hazardous substances, a parallel Draft Joint Military Master Plan Document dated 28 January 2010 provides specific details of several new facilities (e.g., operations and maintenance facilities, bilge and oily wastewater pump station, fuel storage areas, POL storage areas, warehousing facilities, munitions magazine storage facilities, hazardous waste storage facilities, waste storage facilities, Hazmat storage, etc.). These new facilities will be required to store, handle, and dispose of the estimated increases in hazardous substances that would occur from the potential DoD unit transfers to Guam. This Master Plan is currently not available for public distribution, but rather is currently for "official use only." However, at a later point in time, this Master Plan will be released for review and specific information regarding new facilities for the handling of hazardous substances will be available.

J-001-158

Thank you for your comment. Two examples of addressing traffic impacts with a traffic management plan is the use of busses for transporting workers from workforce housing to the development site and establishing work hours that do not coincide with normal peak travel times. Specifications for military contracts can be written such that workers will be housed in community work force housing, and driven to the development sites in busses, during non-peak hours.

J-001-159

Thank you for your comment, however, the comment is not clear, but appears to ask that the EIS identify the on-base water demand. The on-base water demand is estimated in Vol 6 Chapter 2 Section 2.2.2.1 and the off-base water demand is estimated in Section 2.2.2.2.

J-001-160

Thank you for your comment. Fire flow demand is included in the industrial demand calculation. Water demand for the 7,222 transients housed on board ships is addressed through the 0.14 MGd water demand supplied to the CVN. It is assumed that 0.05 MGd is required for construction. The water demand for construction has been included in the FEIS estimates.

J-001-161

Thank you for your comment. Water demand for the 7,222 transients housed on board ships is addressed through the 0.14 MGd water demand supplied to the CVN. No adjustment to the total DoD water demand is required for this population.

J-001-162

Thank you for your comment. The GWA water demand calculation was revised in the Final EIS to incorporate the current production estimate from GWA and add future demand anticipated from baseline growth and water demands from populations related to the USMC relocation (induced, civilian workers on the new bases and construction workers). Water demand from the tourist population is included in the current production estimates from GWA. For the EIS, it is assumed that the tourist population will not increase over baseline levels.

J-001-163

Thank you for your comment. The GWA water demand calculation was

revised in the Final EIS to incorporate the current production estimate from GWA and add future demand anticipated from baseline growth and water demands from populations related to the USMC relocation (induced, civilian workers on the new bases and construction workers). Water demand from the tourist population is included in the current production estimates from GWA. For the EIS, it is assumed that the tourist population will not increase over baseline levels.

J-001-164

Thank you for your comment. In Volume 6, Chapter 2 of the FEIS, DoD considered rehabilitation of Tumon Maui and Marbo #2 wells as an option, but was not carried forward for additional analysis to support DoD water needs for several reasons. Successful rehabilitation or replacement of the inactive wells would result in approximately an additional 4 MGd if adequate yield in the aquifers were available. However, rehabilitation of the Airforce's Tumon Maui and Marbo #2 wells was eliminated because the Yigo subbasin does not have sufficient available yield to meet both GWA and DoD needs. The DoD will support, however, efforts to consider rehabilitating these wells to support off base GWA water demands related to the Marine Corps relocation depending on need, regulatory approval, and aguifer yield. Preliminary review indicates that there is adequate available yield in the subbasins to support some level of withdrawal that could assist GWA. Coordination with GWA would be needed to avoid negative effects caused by over pumping.

J-001-165

Thank you for your comment. Up to 22 new water supply wells are proposed to provide additional capacity for the DoD water system. These wells would be installed in Northern Guam and extract potable water from the northern Guam lens aquifer. Operations at Fena Reservoir would not be modified at this time. The estimated sustainable yield from the northern Guam lens aquifer is estimated at approximately 80 million

gallons per day. Aquifer sustainable yield is the amount of water that can continuously be withdrawn from groundwater sources without degrading water quality or viable production water. The estimated total average daily water demand from this aquifer is 63 million gallons per day at the peak of construction of the proposed DoD buildup. Thus, there will be an adequate supply of potable water. DoD and Guam Waterworks Authority plan to jointly manage the production of water. Also DoD is an advocate for grants and low cost loans to Guam Waterworks Authority so they can improve their distribution system and reduce water loss due to leaks. The Guam Water Authority (GWA) and DoD are cooperatively working together to plan for the expected increase in population on Guam. DoD has agreed to drill the 22 new DoD water supply wells early, and provide this water to GWA, along with excess water from DoD's Fena Reservoir, to meet the near-term increase in water demand that is expected to occur off-base during the construction phase of the buildup. During this time, GWA will make improvements to their system to meet the long-term water needs of off-base communities. The net positive affect of this strategy is that DOD shoulders the cost to supply early buildup water demand, especially the demand associated with the temporary construction workforce.

J-001-166

Thank you for your comment. The FEIS has been updated to address the possible closure of the 19 wells with elevated chloride levels.

J-001-167

Thank you for your comment. Since the planned wells are located in undeveloped portions of the NGLA and daily withdrawal from the subbasins is below 1991 sustainable yield estimates, no significant negative impacts are anticipated with the implementation of the Marine Corps water supply. Long-term options will be considered if freshwater supplies are not adequate to safely meet DoD water demands in northern Guam.

J-001-168

Thank you for your comment. Though the DEIS discussed average flows to the treatment plant, the facility was sized to handle peak flows determined based on peak factor provided in GWA's master plan. The peak factor includes I&I flows.

GWA is aware of overflow issues and upgrading their system as soon as the funding is available through moratorium projects.

J-001-169

Thank you for your comment. The construction-related BMPs listed in the Volume 7, Chapter would be implemented project by project. Each construction contract would require implementation of the project-specific BMPs. The contract would not necessarily dictate how the contractor proposes to meet the requirements of each BMP. This information is not available for the EIS. Additional conditions and mitigations would be placed on the contract based on regulatory permit conditions and decision to implement mitigation measures as documented in the Record of Decision (ROD) for the proposed action.

Adaptive management is identified in Volume 7, Chapter 2 to mitigate impacts by potentially slowing construction tempo. The description of this mitigation measure has been revised in the FEIS.

J-001-170

Thank you for your comment. Volume 6, Chapter 3 and Volume 8 of the FEIS discusses various sustainable measures to minimize water use, including limiting landscape irrigation and use of native vegetation. Grey water is a potential water source that could be reused as a water conservation measures. If this is ultimately selected as a viable measure, it will be treated to meet the end use requirements and all applicable regulatory requirements.

J-001-171

Thank you for your comment. Stormwater design for roadway projects will consider other inovative systems besides detention basins to develop site-specific applicable measures to reduce the potential for exceeding water quality standards.

J-001-172

Thank you for your comment. The FEIS addressed central Guam sewer system. Increased wastewater flow may exacerbate the sewer overflows that currently occur in the collection system at central Guam if the ongoing GWA development moratorium project will not be carried out on schedule as planned. The DoD would install collection system improvements for the areas of new military buildup development, but cannot fix other current deficiencies in the GWA sewer collection system due to legal constraints. To minimize adverse impacts associated with increased wastewater flow from construction workforce and induced civilian growth on the central Guam collection system, DoD would assist GWA to identify where the impacts related to induced population and workforce housing are and work with GWA to prioritize the improvement projects. DoD is also leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam. The sewer system should be designed to accommodate maximum hourly flows.

J-001-173

Thank you for your comment. The water quality assessment in this part of Volume 6 was meant to be for the water going through the outfall of the wastewater treatment plant. Chapter 6 addresses the impacts to general water quality and Chapter 13 to marine environment.

The final EIS has been revised to show indirect impacts on utilities from induced civilian and construction workforce populations. That impact to the sewer collection system serving the civilian population is rated

significant. The table and impact you cite has been clarified in the final EIS.

J-001-174

Thank you for your comment. Your observation is that one potential mitigation for wastewater treatment poentially conflicts with the BMP for roadways. However, realize that there are numerous locations for construction of the proposed DoD relocation, including Apra Harbor, Finegayan, Andersen South, and Andersen AFB. That does provide the opportunity to locate construction housing in areas served by wastewater treatment plants besides NDWWTP, such as Hagatna WWTP, which has excess treatment capacity.

Your observation that virtually all of the existing WWTPs on Guam are currently not meeting their permit requirements is correct. Upgrades to operations are needed with or without the proposed DoD relocation. DoD is workig with GWA to assist as much as possible in their efforts to fix their systems. The proposed upgrades to the NDWWTP would go a long way in fixing the largest WWTP on Guam.

J-001-175

Thank you for your comment. Table 3.1-1 of Volume 8 was updated to include more specific permitting information, including permitting agencies (e.g., GEPA).

J-001-176

Thank you for your comment. The DEIS assumes that the affected CTs operating under peaking conditions would be in compliance with health-based standards because of their Title V permit status, and would therefore not be anticipated to result in significant health problems for the local population. As the Preferred Alternative (Basic Alternative 1) would be in compliance with health-based standards, no alternative operating

scenarios were developed. With updates to the current power demand from GPA and estimated demand from the proposed DoD buildup, which has gone down, Preferred Alternative 1 was retained in the FEIS and Interim Alternatives 2 and 3, and Long-Term Alternatives 1, 2, and 3 were deemed unnecessary and deleted.

J-001-177

Thank you for your comment. The DEIS discusses some general improvements, which could be considered to be best management practices for reducing SO2 emissions. These practices could include the use of low sulfur fuel, if the federal exemption on fuel sulfur content is lifted. DoD is working with relevant stakeholders to determine an appropriate strategy to for implementing an island wide switch to low sulfur fuel. Therefore, the predicted air quality impacts are considered conservative as potential impacts do not consider the use of cleaner fuel options in the future.

J-001-178

Thank you for your comment. DoD is considering the pros/cons of creating an energy plan only for DoD as that would not be inclusive of all GPAs customers.

DoD would pursue LEED Silver for the proposed new Marine base at Finegayan. This would include many aspects of energy conservation, resulting in reduced power demands. This LEED planning is currently underway and expected to be included in the final EIS.

J-001-179

Thank you for your comment. The DEIS analyzes the worstcase impacts from traffic conditions and at power facilities separately because the worst-case conditions for neighborhoods are relatively far

apart for each source group. The worst-case traffic impact locations were chosen according to congested intersections located along the major routes. The worst-case power facility impacts would occur around the power facility perimeter, and are therefore analyzed from this location. Peaking generators, affected by the proposed action, would operate within their permitted capacity and presumably in compliance with the NAAQS. Furthermore, the cumulative effects analysis considers specific worst-case receptor locations from these two source categories and anticipates impacts to be minimal. With updates to the current power demand from GPA and estimated demand from the proposed DoD buildup, which has gone down, Basic Alternative 1 (Preferred Alternative) was retained in the FEIS and Alternatives 2 and 3 were deemed unnecessary and removed from consideration.

J-001-180

Thank you for your comment. The analysis in this chapter is for land use. Impacts to recreation, natural resources, and human populations are addressed in different chapters of Volume 5. Methodology for the impact analysis is presented in Section 8.2.1.

J-001-181

Thank you for your comment. The Guam Stormwater Manual would be included in the planning, design, and construction of all roadways.

J-001-182

Thank you for your comment. Either of the long-term programmatic alternatives for new power plants (LT alts 1 & 2) would be closed loop cooling systems with no hot water outfall. LT Alt 3 would be up to the discretion of GPA. In all cases, subsequent NEPA review with project specific detail would be required.

J-001-183

Thank you for your comment. Increased operation of GPA base load generating facilities would remain within current permitted limits, thus marine effects from increased discharge of cooling water would be negligible and within allowable limits as originally determined from the permitting process considered. Table 13.2-2 will be revised to state this for the FEIS.

J-001-184

Thank you for your comment. Interim Sustainable Yield Assessment: DoD agrees that protection of the sole source NGLA is imperative. The FEIS discussed the two available estimates of the NGLA that have been published, one by the Northern Guam Lens Study (NGLS) (CDM 1982) and one by Barrett Consulting with John Mink (Barrett 1992). The CDM 1982 study estimated the sustainable yield of the NGLA as 57.5 MDd, and the Barrett 1992 study estimated the sustainable yield as 80.5 MGd. University of Guam (UoG) Water and Environmental Research Institute (WERI) provided an expert technical review for DoD of the two sustainable yield estimates for the NGLA in 2009. The study concluded that the approach and methodology used in Barrett 1992 to estimate the sustainable yield are still valid and are appropriate for initial planning; and the Barrett 1992 sustainable-yield estimates should be used instead of the earlier 1982 sustainable-yield estimates because the later values are based on an additional decade of field data. Additionally, this expert communicated that the additional data that had been gathered from the NGLA since the 1992 study would not likely change the sustainable yield estimate for purposes of the FEIS because the data collected was from sub-basins of the aguifer that are not located where DoD proposes to withdrawal water. Therefore, the FEIS uses the Barrett 1992 sustainable

yield estimate of approximately 80 million gallons per day. However, it is important to note that the estimated total average daily demand from the aguifer for all sources (DoD and non-DoD) during the peak construction year of 2015 is 50.33 MGd, which is below both sustainable yield estimates. Volume 6, Chapter 2, Section 2.2.4.1 and Chapter 3, Section 3.2.3.1 discuss this in detail. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aquifer and development of a 3-D model, and will help guide decision-making during well installation. It is also important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's

confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS. Long-term Comprehensive Aguifer Study: DoD has already committed funds to conduct the NGLA 3-D model. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aquifer and development of a 3-D model. Aquifer Management Plan: In October 2009, fully comprehending the

importance of protecting the sole source NGLA, DoD initiated an effort with GWA/CCU to co-manage the NGLA. In fact, co-management of the aguifer, and pursuit of a comprehensive 3-D model of the aguifer was a DoD recommendation, not one made by EPA, GWA or GEPA. This effort proposed that GWA and DoD, the two entities that rely on the NGLA as a major source of water would need to work as one to protect this critical resource. The proposal was to cooperatively assess the impacts of proposed developments, use the upcoming USGS study to guide efforts to manage the NGLA, and leverage DoD and GWA resources to cooperatively address potential impacts and propose alternatives to mitigate adverse impacts to the NGLA. Although this initiative to work together cooperatively has been advanced at subsequent meetings that created consensus on the way ahead, both GWA and EPA raised concerns with the DEIS knowing that many of the issues they raised are already being addressed. Additionally, EPA was invited to these meeting, but declined to attend unless DoD funded their participation. It is important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS.

J-001-185

Thank you for your comment. DoD conducted a study of the NDWWTP outfall which included assesing the current outfall, a modified outfall, and a new outfall. This study found that the proposed secondary treatment will reduce bacteria levels. This is discussed in the FEIS in Volume 6

Chapter 13. The ammonia levels, after initial treatment as identified in Table 13.2-4, are lower than current ambient conditions (i.e. no action alternative) found in coast waters associated with the NDWWTP. And as identified above, with DoDs assistance with future upgrades to secondary treatment, water quality values will be lower than Guam water quality standards.

J-001-186

Thank you for your comment. The USACE may include this, in addition to coral spawining months, as part of the special conditions associted with the Section 10/404 permitting process.

J-001-187

Thank you for your comment. Explanation for Alternative 3 can be found at 13.2.6.3, Pg. 13-2. No discharge is expected, therefore receptors in the nearshore environment are not impacted.

J-001-188

Thank you for your comment. The Guam Stormwater Manual would be included in the planning, design, and construction of all roadways.

J-001-189

Thank you for your comment. Construction material supply was not included in the cumulative impact analysis. No information is readily available on the construction materials required for each project in the cumulative project list. Contractors awarded construction contracts would be responsible for quantifying and obtaining construction materials. Materials that are not in sufficient supply on island would be imported. DoD is committed to a minimum 40% demolition waste diversion from landfills which would likely entail recycling or reusing demolition materials. In addition, the proposed dredging in Inner and Outer Apra Harbor would generate material that may be suitable for

reuse as construction aggregate. These actions could lessen the need for other local construction materials.

J-001-190

Thank you for your comment. DoD is aware of this requirement and is obtaining appropriate approvals from GWA and permits from GEPA for any test wells currently in planning/execution and would also comply with this requirement for any future wells.

J-001-191

Thank you for your comment. The distinguishing element is "federal actions," so no change was made.

J-001-192

Thank you for your comment. This change was made in Chapter 3.

J-001-193

Thank you for your comment. The FEIS has been modified to reflect that, through design, wetland impacts will be avoided on Tinian. All wetlands information has been updated in the FEIS.

J-001-194

Thank you for your comment. The differences between the environmental effects of mechanical and hydraulic dredging are discussed in Chapter 2, Volume 4 and Appendix D of the EIS. Mechanical dredging involves use of a clamshell or fixed bucket that excavates the dredge sediment from the harbor floor and then carries the sediment in the full bucket through the water column before lifting the bucket out of the water and placing the dredged sediment in a nearby barge or scrow. During this movement, a small fraction of the collected sediment will escape from the bucket and create suspended sediment in the lower and higher levels of the water column. On the other hand, a

hydraulic dredge works solely on the harbor floor and any suspended sediment will emanate only in the lower portion of water column. As a result, the plume of suspended sediment is generally greater with use of conventional clam shell bucket as compared with a hydraulic dredge. However, use of hydraulic dredging is generally limited to soft bottom sediment on relatively flat surfaces. Mechanical dredging, which has historically been used in Apra Harbor, was chosen as the dredging method for evaluating environmental impacts as it presents the most adverse impact scenario.

A sediment plume is an inevitable effect of in-water construction activities. The Navy proposes to minimize sedimentation by using best management practices such as silt curtains and operational controls of dredging equipment. Final mitigation measures for all dredging activities will be determined and agreed upon during the permit phase of the projects.

J-001-195

Thank you for your comment. Although the study of potential upland placement sites included Port Authority of Guam property, the Navy is only considering upland placement within federal lands. The impact analysis of the upland sites includes only the sites on federal lands. There are legal constraints associated with maintaining an upland placement site on non-federal property. There would be no conflict with Port Authority of Guam master plan proposal for stormwater management.

J-001-196

Thank you for your comment. Information has been added to the FEIS.

J-001-197

Thank you for your comment. As stated by the Department of the Army

(17 Feb 2010 response to DEIS): "the employed survey methodology to assess coral reef resources within the proposed CVN wharf and dredge project area has been an extremely contentious subject. Functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral reef aquatic resource functions, as would ideally be utilized for the proposed action for Section 10/404 compensatory mitigation purposes, is not currently available. Considering that our office will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment, we have engaged our Engineer Research and Development center (ERDC) to provided an independent technical review of the adequacy of the employed methodology to date and recommendations for improvements, if necessary. Preliminarily, ERDC has determined that while the methodology is scientifically valid and statistically defensible, a more intensive level of data collection may be necessary to adequately measure habitat function for compensatory mitigation purposes. We expect a more specific and detailed accounting of their review in the coming weeks."

The Navy will continue to work with the USACE, EPA/GEPA, and local agencies to do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

J-001-198

Thank you for your comment. Appendix H was not available for inclusion in the Draft EIS. The Coastal Zone Consistency

Determination correspondence will be included in the Final EIS. The analysis includes the indirect impacts of proposed actions that are located within federal land on Guam's coastal zone. In addition, the

	analysis addresses potential direct impacts of actions located within Guam's coastal zone.
Guam and CNMI Military Relocation DEIS/OEIS	



CHIEF JUSTICE

Judiciary of Guam

ADMINISTRATIVE OFFICE OF THE COURTS 120 WEST O'BRIEN DRIVE, HAGÅTÑA, GUAM 96910-5174 TEL: (671) 475-3544 / 477-3184



ADMINISTRATOR OF THE COU

February 15, 2010

JGPO c/o NAVFAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, Hawaii 96860-3134 Attention: GPMO

Major General David Bice, USMC (Ret) Executive Director Joint Guam Program Office (JGPO) PSC 455 Box 152 FPO AP 96540-1000

RE: Judiciary of Guam's Comments on the Draft Environmental Impact Statement (DEIS) due February 17, 2010

Dear Sir/Madam:

The Judiciary of Guam hereby submits comments for your review, inclusion and consideration into the Final Environmental Impact Statement.

Specifically, in reference to Volume 2: Marine Corps, Chapter 16: Socioeconomics and General Services of the Draft Environmental Impact Statement (DEIS), the Judiciary of Guam (JOG) would like to address specific issues which are contrary, both operationally and from expert consultant analysis and conclusions (i.e., Albert H. Tsutsui, A.I.A., Inc. Design Partners Incorporated for the: Judiciary of Guam Master Plan, National Center for State Courts: Project Director Chang-Ming Yeh for the: Judiciary of Guam Facilities Master Plan, and Dr. Catherine Lutz for the: Draft Assessment of Methodology and Results of "Judiciary of Guam Facilities Master Plan).

J-002-001

For record purposes, we need to correct, validate and update the DEIS statements with accurate, current and complete information, including a reasoned counter-perspective on DEIS' finding that the military operational component would have little impact on overall crime rates.

J-002-001

Thank you for your comment. There are many reasons why the Marines (about half) are being moved from Okinawa. This discussion is provided in section 3.5.2 of the Socioeconomic Impact Assessment Study (SIAS) that is in Appendix F, Volume 9 of the Draft EIS. Serious crimes by military personnel in Okinawa are committed at a lower rate than the overall civilian population in Okinawa, despite reports to the contrary. Many serious crimes are based on singular incidents that are reported multiple times so that it appears to be multiple incidents.

The impacts of crimes on Guam are discussed in Volume 2 of the FEIS. As noted in the SIAS: "A critical distinction when analyzing crime impacts is between the total numbers of crimes ("volume of crime") and the actual crime rate (numbers divided by population). Population increases always bring with them increases in the volume of crime, but the crime rate would increase only if new populations are disproportionately likely to commit crimes."

The DoD acknowledges that any increase in population, such as the one that these proposed actions would cause, may be accompanied by a proportionate increase in crime and social disorder. The DoD also acknowledges that widely publicized instances of military crime in Okinawa cause Guam residents to be concerned about possible repercussions on the island brought about by the increase in military population on Guam. The increase in population during the construction phase of the build up is recognized as a time for concern for increases in incidents of crime. Moreover, it is also acknowledged that the age group of many military personnel is often characterized as prone to conflicts and misbehavior. DoD educates its service men and woman on good behavior and will act promptly and rigorously to curtail any misconduct and enforce laws to protect the citizens of Guam and our military personnel.

Under Volume 2, Chapter 16,29:

Agencies affected by *Development* on Guam. Within the *Development* section, the Judiciary of Guam was not listed in this section as being affected.

We respectfully disagree with this omission and request that this section be amended to include the Judiciary of Guam (JOG) as an agency that will be affected by the Development Phase on Guam.

The Judiciary recommends that the comments for the DEIS should reflect the following language:

Due to impending expenditures totaling \$15 Billion in military capital improvement projects for the buildup on Guam, there will be an increased amount of civil cases involving construction development, which would invariably bring with it increased civil cases from large dollar amount business transactions and contractual disputes (i.e., subcontractors not being paid by General Contractors, bid and proposal protests, mechanics liens, seizure of performance bonds, and other disputes, which may also include corresponding increases in small claims cases involving landlord and tenant disputes, judgment debtor cases for non-payment for goods and services and/or commercial or private loan defaults, etc.).

Under Volume 2, Chapter 16.81:

Tables 16.2-47 and 49, Table 47 states: that the current JOG Judge Service Population Ratio is 1: 29,313. (175,878 / 6). With a peak projected population of 255,569 (Table 16.2-1), using the current service population ratio, provides a Judge count of 8.72 at year 2014.

Table 49 states there are currently 6 judges and that for peak year 2014, an additional 2 judges are required.

We respectfully disagree with comments associated with Tables 16 and 49, and request that this section be corrected to reflect the Judiciary of Guam's current Judicial Officers, as of February 15, 2010.

To date, the Judiciary of Guam has 8 judges, including one Administrative Hearings Officer, bringing the total number of Judicial Officers to nine (9). Based on the National Center for State Courts (NCSC) study of January 2010, by the year 2014, it is projected that 11.8 Judicial Officers will be needed (high projection). This essentially means for all practical purposes that a total of four (4) additional full-time Judicial Officers will be needed by 2014, which would bring the total number to thirteen (13) to fully service the 80,000 population increase as mentioned in the DEIS.

2

Guam and CNMI Military Relocation DEIS/OEIS

J-002-002

Thank you for your comment. Please note that the population of about 80,000 represents the unconstrained (maximal) condition. The FEIS has been revised to reflect the comments and information you have provided.

We respectfully request that this table reflect the following projection, as outlined in Table 13 of NCSC's report of January 2010:

Table 13 NCSC Judicial Need Projection, 2008-2030

NC	SC Project	ions* Base	ed on 1129	case	es per judg	e (2008 ca	seload)
Year	Median Estimate Total Case Filings	Percent Change (From 2007)	Judicial Officers Need		High Estimate Total Case Filings	Percent Change (From 2007)	Judicial Officers Need
2006	10,125		9.0	1	10,125		9
2007	9,261		8.2	1	9,261		8.2
2008	9,036	-2.43%	8.0	1	9,036	-2.43%	8
2009	10,768	16.27%	9.5	1	12,407	33.97%	10.7
2010	11,557	24.79%	10.2	1	13,196	42.49%	11.4
2011	11,678	26.10%	10.3		13,317	43.80%	11.5
2012	11,799	27.41%	10.5	1	13,438	45.10%	11.6
2013	11,921	28.72%	10.6	1 1	13,560	46.42%	11.7
2014	12.042	30.03%	10.7		13,681	47.73%	11.8
2015	14,277	54.16%	. 12.6		15,916	71.86%	13.7
2016	14,398	55.47%	12.8		16,037	73.17%	13.9
2017	14,519	56.78%	12.9		16,158	74.47%	14.0
2018	14,640	58.08%	13.0		16,279	75.78%	14.1
2019	14,761	59.39%	13.1		16,400	77.09%	14.2
2020	14,883	60.71%	13.2	l	16,522	78.40%	14.3
2021	15,004	62.01%	13.3	1 [16,643	79.71%	14.4
2022	15,125	63.32%	. 13.4		16,764	81.02%	14.5
2023	15,246	64.63%	13.5		16,885	82.32%	14.6
2024	15,367	65.93%	13.6		17,006	83.63%	14.7
2025	15,489	67.25%	13.7		17,128	84.95%	14.8
2026	15,555	67.96%	13.8		17,194	85.66%	14.9
2027	15,622	68.69%	13.8		17,261	86.38%	14.9
2028	15,689	69.41%	13.9	Γ	17,328	87.11%	15.0
2029	15,756	70.13%	14.0	Γ	17,395	87.83%	15.0
2030	15,823	70.86%	14.0		17,462	88.55%	15.1

3

Guam and CNMI Military Relocation DEIS/OEIS

J-002-003

Thank you for your comment. The FEIS has been revised to include the information and views identified by your agency.

Factually, the Superior Court Judges within the Judiciary of Guam have handled an average of 1,235 non-traffic cases each. Historically, between 2001 and 2008, the caseload ranged from 1,129 and 1,331.

The increased in-bound migration anticipated to handle service and professional jobs that may be required was considered as potentially producing calculable increases in judicial needs.

Given that number of jobs is not calculable, however by applying the same logic as above, for each 23,890 individuals, 1 new judge would be needed, as indicated in the NCSC's Judiciary of Guam Final Master Plan – Final Report January 2010. Therefore, the ratio would now officially read: 1:23,890.

It was recommended by NCSC that the Judiciary adopt the projection of 13.7 judges and 15 judges as their master planning goals for year 2015 and year 2030, respectively.

Provisions for support staffing (i.e., 124 support personnel for the proposed Northern Court Facility, to support the four (4) additional full-time Judges), and facilities should also be included in future expansion plans.

Additionally, the NCSC Judicial Need Projection presented in Table 13 above, continues to show a steady increase in caseload and therefore Judicial Officers after the 2014 peak period while the DEIS shows a steep population drop after the Construction Phase ends in 2015, and Operations Phase starts.

The steep population drop on the DEIS graph assumes that the entire construction labor force leaves the island. Based on the NCSC report findings, caseload projections reflect on only permanent residents coming to Guam, along with normal population increases, and does not take into consideration the temporary construction worker group that will contribute to the 2014 peak period.

Since the permanent population will continue to grow almost linearly, the NCSC projections also increase. The DEIS acknowledges that there is no way to predict how many stay-behind construction workers will remain on island, and how the stay-behind population may affect future in-migration after 2014 (i.e. relatives of stay-behind workers migrating to Guam).

If a large percentage of the construction work force remains, then the permanent population increase after 2014 may be greater. This would correspond with a larger caseload increase. Therefore, the request for the four (4) additional Judicial Officers is in line with referenced studies as contained in the NCSC's Judiciary of Guam Facilities Master Plan – Final Report January 2010.

4

Guam and CNMI Military Relocation DEIS/OEIS

J-002-004

Thank you for your comment. The FEIS has been revised to note the comments and information provided by your agency.

Under Volume 2, Chapter 16, page 95:

The DEIS states that Parks and Recreation, Libraries and the Judiciary would require a combined 46 key professionals in 2014, falling to 22 after the construction period. This figure only reflects two (2) additional Judges.

We respectfully disagree with this statement concerning additional Judges of 2 and request that this section be amended to reflect the following comments, including the number of current Judicial Officers:

The Judiciary of Guam's current Judicial Officers in accordance with the Judiciary of Guam's NCSC's Facilities Master Plan of January 2010 comprises seven (7) Judges and onc (1) Administrative Hearings Officer. Additionally, the court has one (1) full-time Magistrate at the Northern Court Satellite, bringing the total number of judicial officers in the Superior Court to nine (9), as specifically indicated in the NCSC's Judiciary of Guam Facilities Master Plan – Final Report January 2010.

Finally, in relation to military operational component's impacting the overall crime rates, both the Socioeconomic Impact Assessment Study and Volume 2: Marine Corps – Guam, indicated "...It appears that the military operational component would have little impact on overall crime rates."

Quantitative data on crime rates specific to military personnel and dependants is simply not available either within the military's various branches nor in civilian crime and adjudicatory reporting statistics.

The question of whether the military population increase will increase crime rates is a reasonable one given the demographics of the military strongly resembles the key demographics of the criminal population; that is, the military is much younger, more often male. Men make up 86 percent of the active duty military, and median age across the services is 28. For the Marines, those numbers are 94 percent male and an average age of 25.

Some analysts have argued that the military has a general crime-reducing effect on its members and that this is for three reasons. First, it is a highly monitored institution, with crime less likely to go undetected and therefore undeterred. Second, everyday life in the military is highly structured, which reduces the opportunity individuals have to commit crime (Sun, Sung, and Chu 2007). Third, the military is a full-employment organization, with relatively small numbers of individuals at the lowest ranks who experience economic difficulties, and it can provide the context for reshaping life directions (Elder 1986).

Other analysts argue, conversely, that at least some kinds of crime are more likely in military than civilian populations because, first, military training brings with it an emphasis on the use of violence to solve problems, and an emphasis on forms of hypermasculinity that generates attempts to exert power and control over others,

5

Guam and CNMI Military Relocation DEIS/OEIS

J-002-005

Thank you for your comment. The FEIS will reflect the information provided from your agency's perspective.

sometimes in criminal ways (Burke 2004, Rosen et al.2003). Second, it is known that combat generates PTSD, which then produces additionally higher rates of violent perpetrators (Sun, Sung and Chr 2007:600; Byrne and Riggs 1996). Combat also "directly increases violent and unlawful (anti-social) behavior and stress" (Gimbel and Booth 1994:702), which affects post-combat social adjustment relevant to crime as well as family dysfunction.

Criminological studies indicate that rates of certain types of crime are much higher in military populations, and particularly among those military personnel with PTSD. Those crime include domestic and partner violence (Byrne and Riggs 1996), Gerlock 2004, Heymen and Neidig 1999, Marshall, Panuzio, and Taft 2005) and sexual assault (Morris 1996). While the Pentagon notes that 80 percent of rapes within the military are not reported, research conducted among female veterans indicates that 30 percent report having been sexually assaulted or raped by their colleagues in service (Sadler 2003; see also Murdoch 2004).

Absent quantitative data, there are supporting studies that indicate that military operational component would, contrary to DEIS, have definite impact on overall crime rates on Guam. And eventually, because the Guam Judiciary has concurrent jurisdiction, such cases will be adjudicated within the courts of Guam.

It is in the Judiciary Court of Guam's best interests to update the DEIS with the most up to date information in order to address those comments which are contrary and do not accurately represent the impact to the Judiciary.

Please be advised that upon the approval of the Guam Judiciary's Master Plan from the Judicial Council of Guam and the 30th Guam Legislature, these materials and expert studies (as italicized on page 1) will be available for your examination.

We sincerely hope that our corrective comments for recommended revisions and discussion on overall crime rates impact, be considered for inclusion in the upcoming: Final Environmental Impact Statement.

Your attention is appreciated.

Sincerely,

Administrator of the Courts

6

Guam and CNMI Military Relocation DEIS/OEIS

J-002-006

Thank you for your comment. The information you provided will be reviewed and included in the FEIS as appropriate.

cc: Chief Justice Robert J. Torres, Judiciary of Guam
Senator Frank B. Aguon, Jr., Committee on Economic Development, Health &
Human Services, and Judiciary
Senator Judith P. Guthertz, Chairperson, Committee on the Guam Military
Buildup and Homeland Security
Col. Dennis Santo Tomas (Ret), Chairman Public Safety Sub-Committee
Nora Camacho, Deputy Director, Guam Buildup Office (Governor's Office)





February 17, 2010

General David F. Bice, Executive Director Joint Guam Program Office 2221 S. Clark St., Suite 9000 Arlington, VA 22202 JGPO c/o NAVFAC Pacific 258 Makalapa Dr. Suite 100 Pearl Harbor, HI 96860-3134 Attn: GPMO

Subject: DoD Funding for Off-base Roadway Projects

Dear General Bice:

Buenas yan Hafa A'dai!

J-003-001

The Guam Department of Public Works (DPW) has been advised of the draft list of offbase roadway projects proposed to be funded by the Department of Defense (DoD). After reviewing the draft list, DPW is concerned that the projects proposed for funding do not sufficiently address the impact on traffic that the anticipated Military Relocation will certainly have.

Specifically, DPW finds it troubling that the draft list identifies only those roadways adjacent to the proposed NCTS Finegayan Main Cantonment Area or at military access points for funding. The need to maintain a functional transportation system for all Guam residents, including the military and their dependents has not been adequately addressed. The apparent lack of funding is directly contrary to the representations made in the written Executive Summary document that was distributed at the recent Navy/JGPO public hearings:

Mitigation measures for the selected alternative will be identified in the Record of Decision. These measures will be funded, and efforts to ensure their successful completion or implementation will be treated as compliance requirements and tracked annually.

Originally, DoD and DPW identified and prepared a comprehensive list of off-base roadway projects that would directly address the traffic impacts that will result from the relocation of the military and their dependents to Guam. All of the roadway projects on the original comprehensive list are "mitigation measures" within the scope of the Executive Summary document. As was represented in the Executive Summary and at the Navy/JGPO public hearings, it is therefore respectfully requested that all of the off-base road projects

542 North Marine Corps Drive, Tamuning Guam 96913 • Tel (671) 646-3131 / 3259 • Fax (671) 649-6178

Guam and CNMI Military Relocation DEIS/OEIS

J-003-001

Thank you for your comment. The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the US Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DoD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The DoD, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to assist the Government of Guam in seeking funds for projects that are not eligible for the DAR program.

General David F, Bice, Executive Director Joint Guam Program Office February 17, 2010 Page 2

J-003-001

originally identified by DPW and DoD in the comprehensive list be adequately funded and annually tracked as compliance requirements of the Environmental Impact Statement (EIS) process.

In addition to the above, DPW also requests that the Joint Guam Program Office consider the following concerns and suggestions:

J-003-002

Use of the Defense Access Road (DAR) Criteria as a Benchmark for DoD Funding.

The criterion of "sudden and unforeseen impact" clearly applies to the tremendous impacts upon local traffic that are expected to occur with the Military Relocation. These impacts are expected to occur and grow over a period of four short years, and there is no possible means for DPW to fund the improvements necessary to address them.

DoD is responsible for the off-base roadway projects required to alleviate the impacts of the additional traffic surely associated with the Military Relocation – regardless of the benchmark or source of the funding.

J-003-003

DPW has Worked Cooperatively with DoD to Develop an Off-base Roadway Project List.

Beginning with the Notice of Intent, and at meetings held in Washington, DPW has worked cooperatively with DoD to identify the traffic impacts and project requirements of the Military Relocation. Throughout this entire collaboration, DPW was led to understand that a reasonable funding plan would be developed for all identified off-base roadway projects.

As proposed, however, the current funding plan for off-base roadway projects falls far short of the "reasonable" standard as it does not address the full impact of the relocation. DPW expects that a revised funding plan will soon be forthcoming and that the revised plan will address all of the off-base roadway projects that DPW and DoD identified and developed together in good faith.

1-003-004

3. The Off-base Roadway Projects List Addresses the Worst of the Traffic Impacts.

The original off-base roadway project list prepared by DPW and DoD included only those projects that were absolutely necessary. For example, roadway widening projects were only recommended in cases with severe traffic congestion. Intersection improvements were recommended only where the improvements were reasonable and implementable.

Guam is not asking DoD to address all existing or future traffic problems on Guam, but rather only to mitigate the traffic impacts that will result from the Military Relocation. If the off-

542 North Marine Drive, Tamuning Guam 96913 • Tel (671) 646 3131 / 3259 • Fax (671) 649-6178

J-003-002

Thank you for your comment. The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the US Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DoD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The DoD, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to assist the Government of Guam in seeking funds for projects that are not eligible for the DAR program.

J-003-003

Thank you for your comment. The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the US Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DoD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

General David F. Biec, Executive Director Joint Guam Program Office February 17, 2010 Page 3

J-003-004

base roadway projects are not funded and implemented, there is no doubt that the levels of congestion for all motorists on Guam would be intolerable.

As it is, even if all of the readway projects were funded and completed, the resulting level-of-service (LOS) would likely remain poor despite the improvements because the project list is very basic and does not contain or represent all of the roadwork that needs to done. DPW recognized, however, that although additional projects could have been pursued to improve the LOS to more acceptable levels, higher funding requirements, more right-of-way impacts and additional environmental impacts would have resulted.

J-003-005

DPW has the Authority to Control the Development of Roadway Projects and to Require Necessary Improvements to Protect Public Infrastructure.

Any development plans for military facilities and the use of Guam's highways and rightsof-way for the placement of utilities or other off-base development must be processed and approved by the appropriate Government of Guam land use and permit agencies.

In particular, DPW is the government agency responsible for overseeing the entirety of the highway and rights-of-way. [Title 5 GLAM CODE ANNOTATED CHAPT, 54]. Under Guam law, no structures, utility poles, pipelines, towers or other encroachments can be constructed or permitted to exist within the boundaries of the highway or rights-of-way unless a written permit approving the development or utility is first obtained from DPW. [5 G.C.A. § 53102]. Moreover, when issuing the permit, DPW is broadly authorized to set whatever conditions it finds necessary in order to protect the highway, including conditions addressing the location of the development or utility, and the manner of any work to be done. [5 G.C.A. § 53103]. At the permittee's expense, DPW may supervise the work, and may require the permittee to pay the entire expense of replacing the highway in as good condition as before. [[5 G.C.A. §§ 53103, 53104].

Thus, before construction on any off-base roadways can begin. DoD must first obtain the required written permits from DPW. In turn, before issuing the permits, DPW is authorized to impose any reasonable conditions that in its discretion are necessary to protect the highway and the safety of the public. Depending on the project, the conditions imposed can include a restriction on certain types or locations for development. The conditions can also require infrastructure improvements or upgrades.

Moreover, to the extent that events and actions related to the Military Relocation or the DoD causes an adverse impact on off-base highways or communities, then pursuant to the Governor's EXECUTIVE ORDER NO. 96-26, the DoD is required to go before the Guam Land Use Commission (GLUC) and its Application Review Committee (ARC). The DoD must further comply with all of GLUC and ARC guidelines, requirements and conditions. When reviewing a proposed development, the GLUC and ARC are authorized to impose conditions prior to

542 North Marine Drive. Tamuning Guam 96913 • Tel (671) 646-3131 / 3259 • Fax (671) 649-6178.

Guam and CNMI Military Relocation DEIS/OEIS

The DoD, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to assist the Government of Guam in seeking funds for projects that are not eligible for the DAR program.

J-003-004

Thank you for your comment.

J-003-005

Thank you for your comment. The DoD will continue to work together with Guam DPW and FHWA to identify projects eligible for DAR funding. The DoD will also help Guam DPW and FHWA identify funding for the projects in the FEIS.

General David F. Bice: Executive Director Joint Guam Program Office February 17, 2010 Page 4

3-003-005

approval of the development. These conditions can include the requirement that DoD mitigate at its expense the adverse impacts caused by it to the highways and communities.

The original off-base roadway project list developed by DoD and DPW represents a carefully coordinated and cohesive plan to address traffic impacts directly resulting from the Military Relocation. When the list was developed, the location of each project and the requirement of possible infrastructure improvements was foreseen and built into the anticipated scope of work. However, if funding is provided for only a few military access projects rather than for the entire project list and the systemic plan that it represents, the adverse impact on traffic will become dire upon the relocation of the military as there will be little to no relief provided to accommodate the increase in population.

Inadequate highways and an inefficient surface transportation network are not in the best interest of either DoD or Guam. The highways serve both the military and local communities, and it is DPW's obligation to ensure that all highway development is done in a manner that promotes the efficient and safe movement of traffic for all citizens. In furtherance of this public obligation, DPW will not hesitate to impose any conditions reasonably necessary to ensure that the highways and the public are safely protected.

In summary, for over four years now, DPW and the Department of Defense have worked together to jointly and responsibly plan the surface transportation system in Guam so as to accommodate the Military Relocation. In furtherance of this partnership, DPW respectfully urges that a "reasonable" funding plan for the necessary off-base roadway projects, together with a realistically attainable implementation schedule, be developed and incorporated in the Final Environmental Impact Statement and the Record of Decision.

Un Dankulu na Si Yu'us Ma'ase.

Sincerely.

LAWRENCE P. PEREZ

Director

The Honorable Felix P. Camacho, Governor of Guam

542 North Marine Drive, Tamuning Guam 96913 • Tel (671) 646-3131 / 3259 • Fax (671) 649-6178



GUAM POWER AUTHORITY

ATURIDAT ILEKTRESEDAT GUAHAN P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

February 12, 2010

Joint Guam Program Office c/o NAVFAC Engineering Command, Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, Hawaii 96860

Guam Program Management Office Attention:

Subject: Comments on Draft EIS/OEIS - Guam and CNMI Military Relocation

Relocating Marines from Okinawa, Visiting Aircraft Carrier Berthing, and Army Air

and Missile Defense Task Force

3-004-001 The Guam Power Authority has completed review of the Draft EIS published in November 2009. The roposed military relocation on Guam related to this Draft EIS/OEIS (DEIS) will have a significant mpact on GPA's ability to meet the island's power demand. In light of this, GPA continues to work losely with the Department of Defense (DOD) which includes JGPO and NAVFAC Marianas to ddress the needs of the military in a timely manner. While military growth is important to GPA as the Department of Defense is a valuable customer, the Authority must align the needs of the military with ne more than 40,000 additional customers we serve.

> n typical utility cost allocations, if the requirements of a large customer change, all customers will ear a portion of the cost to serve the increased requirements. However, GPA is committed to the rinciple that civilian ratepayers should be shielded from cost impacts resulting from the military uildup.

DEIS Basis of Study

The DEIS projects load requirements for the military relocation from Okinawa and for other DOD upgrades at 80 MW and also plans for transmission and substation upgrades as necessary. The DEIS also investigates capacity requirements to meet reliability criteria and load demand as well as provides alternatives to address additional load and capacity requirements which includes options for new Generation, upgrades to existing GPA and DOD generation plants, and implementation of demand side management and renewable programs.

The DEIS provides proposed interim solutions during the construction phase of the build up which include three options of reconditioning the GPA combustion turbines (CTs), reconditioning the CTs and increasing operating hours, and reconditioning the CTs and upgrading the Navy's Orote Plant. Furthermore, the DEIS provides for three proposed long term solutions which include a new power plant at Cabras/Piti around 80 MW, a new plant at Potts Junction, and having GPA determine and implement a generation solution.

Guam and CNMI Military Relocation DEIS/OEIS

J-004-001

Thank you for your comment. DoD concurs with this comment and fully expects to pay their fair share of the costs incurred for GPA to provide power to the DoD for this buildup. The rates for DoD would be established by a revised and renewed customer service agreement.

The DEIS addresses transmission and substation upgrades through a list of projects necessary to meet load growth. This project list was provided by GPA as a result of a system analysis study of the impacts of the new load on the GPA system. As this load data has evolved, new analysis results have been provided to DOD.

Subsequent to the DEIS report, GPA has had ongoing discussions with the Department of Defense to firm up DOD load projections, as well as discuss preferred power alternative solutions, system reliability concerns, plant assessment, and local and federal renewable portfolio standards and mandates.

Following are updates as a result of these recent discussions.

Generation

Currently, the energy demand related to the military buildup is lower than previously projected. The military now anticipates 25 MW of firm load and 15 MW of transient/intermittent load (Carrier/Amphibious Vessels). GPA believes these new load projections are more consistent with GPA's 2008 Integrated Resource Plan, anticipating a system peak, inclusive of civilian growth, at 331 MW, up from the current peak of 272 MW. GPA's current generation capacity is 552 MW.

Based on this information and the analyses GPA presented to DOD, GPA & DOD agree sufficient installed generation capacity exists to support the build up. GPA & Navy have consensus on the need to refurbish GPA CTs located at Dededo & Yigo. DOD & GPA agree that this 60 MW sufficiently supports the construction phase. DOD will tentatively fund the estimated cost of \$30 million. Navy has already initiated an approximately \$600,000 assessment for the refurbishment of all five GPA CTs including the ones at Macheche and Marbo.

3-004-002 The effect of the military buildup extends beyond the installation of the marines by bringing in the need for a new baseload unit from 2022 to 2017. DOD should mitigate this cost impact of accelerating he commissioning for this new baseload plant.

> GPA and DOD continue to work collaboratively towards exploring renewable energy options and fuel diversification. These collaborative discussions include exploring fuel diversification strategies and considerations of shared costs for Liquefied Natural Gas supply options and Geothermal exploratory investigations.

Transmission & Substation

DOD remaining a GPA transmission level customer is the preferred and least costly alternative. Given recent projected DOD load data, GPA has revised the transmission and substation project list.

The Power system requires minimal transmission system upgrades over the next 5 years under normal growth. Without the impact of the military relocation, GPA anticipates an investment of approximately \$3.5 million in the transmission system to address additional loading (LIST A). This investment is minimal in comparison to the estimated \$77 million in projects required to address military growth of approximately 108 MVA (LIST B).

GPA EIS/OEIS Comments - February 12, 2010 - 2

Guam and CNMI Military Relocation DEIS/OEIS

J-004-002

Thank you for your comment. DoD and Guam Power Authority have been discussing the power alternatives in detail. The customer service agreement between GPA and DoD would be revised and updated to reflect the costs incurred by GPA to meet the new demands of the proposed buildup. GPA seems OK with the approach that this agreement would cover the costs incurred and not allow the costs to meet DoD demand impact the rates for other power users.

Comments on DEIS

J-004-003 Executive Summary

GPA has created an econometric forecast for projections of population, employment, load, energy sales, and energy requirements for both the civilian and DoD sectors. GPA uses several scenario forecasts on permutations of low and high tourism and infrastructure scenarios. These forecasts include projections of growth with and without the DoD proposed buildup (GPA 2008). GPA used this forecast n its Integrated Resource Planning process wherein GPA solicited information from DoD, the commercial sector, the federal and local government, and other local, national, and international economic forecasters. The IRP and thus, the forecasts were accepted and approved by the Guam PUC and its consultants after a rigorous public vetting and stakeholder process. The Authority believes that ts medium growth forecast is very close to current information and expectations now under discussion between the all the parties involved. GPA has planned accordingly with respect to the generation juestion of supporting future loads.

GPA's Integrated Resource Plan is a public document posted at http://gpagwa.com/gpa_authority/strategicplanning/gpa_strategicplanning_GPAIRP.php.

n 2009, GPA prepared a technical analysis regarding generation system reliability for DoD. This nalysis was a comprehensive study on how improvements in GPA's CT and diesel plants reliability would eliminate the need to add generation for the interim buildup period.

Volume 1

3-004-004 GPA Integrated Resource Plan analysis supports the recommendation for the commissioning of a new 0 MW plant is required to meet civilian and DoD loads by 2017. This would be five years earlier than f there were no military buildup. This is consistent with the Authority's baseline forecast. This plant vill use RFO or LNG. GPA is proceeding on evaluating the technical and economic feasibility for the upply of natural gas to Guam. GPA believes that an integrated system approach to generation xpansion and transmission & distribution is the least costly and ultimately the most reliable and perationally sound.

Volume 6, Chapter 3

J-004-005 The statement: "GPA's demand forecast has indicated that the reserve capacity (or excess capacity to nsure reliability) would be exceeded in 2017, based on GPA's load projections for the IWPS without he DoD proposed buildup (GPA 2008)." found in section 3.1-1 is erroneous. This is because the Draft IS/OEIS confuses Base Case Forecast with Baseline Forecast discussed in a document provided by JPA in 2007 and reproduced by the EIS in Volume 9, Appendix C.

> his 2007 document defines the Base Case Forecast as projecting load growth without the Military Buildup. On the other hand, it defines the Baseline Forecast as including the effects of the Military Buildup on the civilian and military sectors.

> lowever, GPA updates its forecasts regularly. For the IRP work, the Baseline Forecast had a slightly reduced projection of peaks and sales. This was due to input garnered during the stakeholder process bout the potential timing and funding of DoD projects. The IRP Baseline Forecast (2008) with the

> > GPA EIS/OEIS Comments - February 12, 2010 - 3

Guam and CNMI Military Relocation DEIS/OEIS

J-004-003

Thank you for your comment. DoD concurs that GPA has been very up front with their planning and needs. The two agencies have been sharing information and planning the proposed alternatives in a cooperative fashion. DoD looks forward to continuing this relationship. The long-term alternative of allowing GPA to decide how best to meet Guam's total power demands would be the preferred, however for long-term alternatives, there are no categories for the preferred alternative as these are programmatic.

J-004-004

Thank you for your comment, DoD concurs.

J-004-005

Thank you for your comment. It is noted that there are inconsistencies between the current IRP (2008) and information in the EIS. The FEIS has been revised to reflect the revised information to better match current planning by GPA and system components as listed in the EIS comments.

J-004-005

Military Buildup projects a peak of 348 MW in 2017 instead of the earlier projection of 366 MW in the whitepaper reproduced in Append C (2007). GPA's IRP is posted at http://www.gpagwa.com/gpa_authority/strategicplanning/gpa_strategicplanning_GPAIRP.php

The Draft EIS/OEIS values for GPA generation capacity in Table 3.1-1 are erroneous. The document should amend the values for GPA Generation capacity in Table 3.1-1 as follows:

- Cabras #3 & #4 have a nameplate rating of 39.3 MW each
- MEC #8 & #9 have a nameplate rating of 44.2 MW each
- Dededo CT #2 has a nameplate rating of 22 MW
- Talofofo has a nameplate rating of 8.8 MW
- Manenggon has a nameplate rating of 10.6MW.

The Draft EIS/OEIS should replace its Table 3.1-1 with the replacement Table 3.1-1 in the Appendix. Cabras #1 & #2 and Tanguisson #1 & #2 power plants are steam units. Cabras #3 & #4 and Piti #8 & 49 are slow speed diesel plants not steam units. The Cabras, Piti, and Tanguisson plants primarily use neavy oil, residual fuel oil (RFO) #6. Therefore, "GPA RFO-Fired Generation" is better description for hese plants. Enron is defunct. Marianas Energy Company (MEC) now owns and operates the Piti #8 & #9 plant. Therefore, "MEC IPP Piti #8 & #9" is more accurate. GPA employs two types of diesel-fired generation: combustion turbines and medium speed diesels. They use diesel fuel oil. Therefore "GPA Diesel-Fired Generation" is a more appropriate heading for those units.

J-004-006 The Draft EIS/OEIS summary of Navy service outages for all DoD facilities currently on Guam from October 2005 to July 2006 indicates that GPA system failures accounted for 18.2% or 39 of the 214 putages experienced by its facilities. GPA has since made operational changes to improve and ignificantly decrease the number of GPA-related Navy service outages. The number of GPA-related Navy service outages has decreased so significantly that Navy has told GPA that it is satisfied with the eliability of GPA supplied electric power. However, GPA has conveyed to DoD that GPA supporting DoD future loads will require the re-conditioning of GPA CTs.

> able 3.1.2 of the Draft EIS/OEIS presents a table of thermal efficiencies of GPA power plants. lowever, it does not provide a context of how efficient these GPA units among other thermal eneration technologies. Additionally, there is no indication as to the period or output that these fficiencies were computed. Furthermore, these calculations are sensitive to the assumptions and the efinitions used in their calculation. There are several methodologies for the calculation of efficiency. ione are provided.

> ypical thermal efficiencies for thermal power plants range from 30% to less than 50%. The Cabras #3 #4 and MEC IPP Piti #8 & #9 are slow speed diesels. They are considered very high efficiency eneration units. Cabras #1 & #2 are efficient steam powered units. Additionally, thermal efficiencies vill change depending on how far into maintenance cycles a unit is and at what output the unit is ispatched or used. For example, slow speed diesels are at their most efficient at about 80% of their utput rating.

> DoD Diesel plants are not part of the regular dispatch to provide electrical energy. They are strictly DoD backup generators.

> > GPA EIS/OEIS Comments - February 12, 2010 - 4

Guam and CNMI Military Relocation DEIS/OEIS

J-004-006

Thank you for your comment. It is noted that GPA has improved the service and reduced outages experienced by DoD facilities in Guam.

It is also noted that the efficiencies for generation units vary depending on what point the unit is in the operational cycle (near the maintenance point or just having been serviced). Additional information will be added in the FDEIS to clarify the context that the efficiencies are presented in the EIS. The main intent is to show that there are notable differences in efficiencies of technologies for operating units in the GPA system.

J-004-007

Section 3.1.1.1 states: "No power generation is available at Andersen AFB." This is erroneous. There is an underground transmission line between the AFB and the Dededo CT plant. This can support islanding of AFB during typhoons providing storm ride-through capability. Thus, the Dededo CT plants can provide 45 MW of power to directly serve the AFB under emergency conditions. Under normal operations when synchronized to the grid the electric power produced by the CTs is fungible and serves the entire grid. However, there is no formal agreement between GPA and DoD on how to execute this capability.

Section 3.1.1.2 states: "GPA facilities at Marbo and Yigo provide generation capacity in the Andersen south. Please note that this statement needs clarification. Power produced by generators connected to the grid is fungible.

Section 3.1.1.2 states: "Dededo CT #2 was recently reconditioned by GPA and is now available to generate power." It was two other units that were reconditioned not the Dededo CT #2.

In Section 3.1.1.2, the Draft EIS/OEIS does not mention the Tanguisson Power plant located in Central Guam. This plant is rated for 53 MW of capacity. It currently does not operate much because it is a low efficiency unit and GPA can reliably meet its demand with other more cost effective units.

Table 3.1-3 should conform to the information in the suggested replacement Table 3.1-1.

Section 3.1.1.3 states: "These units [Tenjo] are permitted for up to 50% operation ..." This is erroneous. Tenjo Vista plant 2009 operating permits do not restrict operations at Tenjo. GPA uses a 0.3% sulfur diesel fuel at this plant to meet US EPA requirements so that the plant can operate without restriction in the number of running hours. This fuel is lower sulfur than the diesel used at other plants.

J-004-008 Review of Volume 6, Chapter 4

in general, any road construction must be coordinated with GPA to take advantage of opportunities for reduced incremental costs for under ground construction of power and other infrastructure. For example, DoD and GPA should consider the placement of transmission and distribution circuits underground and the installation of power system control and telemetry infrastructure whenever echnical and economic feasibility show that it makes good business sense.

Review of Volume 6, Chapter 21

GPA has engaged and is continuing to engage with DoD, Guam Environmental Protection Agency, and U.S. Environmental Protection Agency (Region IX) on environmental issues. GPA will engage in a stakeholder process to clearly define the environmental issues including the reconditioning of its combustion turbine and medium speed diesel generation, preparation for the siting of the new baseload by 2017, and fuel diversification using renewable energy, natural gas and nuclear sources.

GPA supports DoD on the need and responsibility for strong environmental stewardship and preservation of Guam's cultural heritage.

GPA EIS/OEIS Comments - February 12, 2010 - 5

J-004-007

Thank you for your comment. Paragraph 3.1.1.1 indicates there is no power generation at Andersen AFB refers to the lack of onsite prime power generation, not a Guam Power Authority (GPA) interconnect between the AFB to a GPA owned combustion turbine (CT) unit offsite with a direct interconnect to the AFB.

Paragraph 3.1.1.2 makes a statement regarding Marbo and Yigo generation capacity providing power to Anderson South. The statement will be revised in the FEIS to more accurately indicate that while the units are in the area of Anderson South that power distribution is fungible and can be made available to other areas or provided from other areas within the system capacity.

The comment regarding paragraph 3.1.1.2 indicates that Tanguissen is not mentioned and that the facility has a capacity of 53MW. Table 3.1-2 does list Tanguissen and provides a snapshot image of the capacity provided by the facility. The FEIS will be revised to better include the Tanguissen facility and its' position within the island wide power system.

The FEIS will be revised to more clearly indicate the premitted capacity/hours for each of the Talafofo and Tenjo sites. The 50 percent number was intended to apply to Talafofo in that the permit information provided by GPA indicated that one unit can run for up to 4640 hours or 2320 hours on each of two units per year. The is no stated number of hours the Tenjo units are limited to provided the sulfur content and other emission limits are met based on permit information provided for the installation.

J-004-008

Thank you for comment. DoD and its contractors will coordinate with GPA and other utilities during the construction of infrastructure projects that are components of the proposed actions.

Review of Volume 7 Section 3.3.14.1 states:

"A review of one year of GPA's actual generation capacity indicates an average daily generation capacity of 490 MW, or nearly 15% less than its stated capacity. This appears to be largely related to units out of service for extended periods of time and units simply not available to be scheduled into the generation capacity for the daily report. The daily-capacity report is a document produced by GPA that was evaluated over a one-year period to determine what GPA's typical unavailable capacity is on a regular basis. In this report, the existing combustion turbines (CTs) had been out of service with no specific return-to-service date identified. Thus to maintain reliability targets for the power system performance, GPA would be faced with increasing their generation capacity by 2016 even without the DoD buildup."

1-004-009 Utilities must keep additional generation in reserve above their need to serve peak load because of the physical fact that machines may breakdown or become unavailable to serve load. Thus, it is expected that the average daily generation capacity available for unit commitment is less than the installed capacity. Furthermore, GPA has had such good baseload availabilities such that it could hold back on large investments into its CTs.

> GPA sets its generation reserve margins based on a loss of load expectation (LOLE) of one day in four and a half years. GPA derived its planning and operational criteria for generation system reliability from a standard that Hawaiian Electric Company used several years ago. In GPA's conversations with DoD consultants, we have agreed that a one day in four and half loss of load expectation may be a much more prudent standard that does not unduly burden customers with the cost of putting in additional reserve to meet the higher standard for interconnected utilities.

> GPA calculated and presented its generation system reliability performance for past years for the DoD. GPA met or bettered a one day in ten years loss of load expectation. This performance matches mainland planning standards for generation system reliability.

> However, this standard is planned for and met within the context of a large interconnected grid where a utility can expect support from generation outside its operating area. GPA needs to stand on its own. There are no tie-ins for external sources of electric power outside of Guam. This standard requires a certain level of reserve. The higher the standard, the more reserve capacity is needed to support it.

> GPA's experiment with Performance Management Contracts (PMC) privatizing the outsourcing and management of its baseload power plants has resulted in over \$100 million in fuel savings for customers by increasing the availability of these units. Therefore, GPA produces only two percent or ess of its power from diesel-fired generation. Prior to implementing PMCs, GPA generated 17% of power from CTs and other diesel-fired units.

> Therefore, considering achieving a high standard of base load generation availability and the liminished requirement for producing energy from CTs, GPA management made the prudent choice of not investing in reconditioning GPA CTs and spending on higher priority concerns. If there were no mpending growth due to the military build up, GPA may have considered retiring a portion of its CTs.

> > GPA EIS/OEIS Comments - February 12, 2010 - 6

Guam and CNMI Military Relocation DEIS/OEIS

J-004-009

Thank you for your comment. The information related to CT capacity and long term outage for certain generation units is not intended to question the decision of GPA and the CCU regarding delaying investment in the CTs due to adequate power generation capacity. The intent is to point out that the published GPA system capacity is 552 MW and includes those assets that would be marginally included as current capacity due to the unit status. The DoD understands that the capacity exists and that the capacity can be made available.

GPA's success in outsourcing contracts for independent power producers is also noted and continued success in that approach.

However, GPA will need to recondition these CTs to support the interim military buildup as GPA presented to DoD in February 2009.

GPA's IRP supports the need for a 60 MW baseload in 2017 due to load growth from both the civilian and DoD sectors. However, GPA has shown in past presentations and discussions with DoD, that costs for other than an integrated, single system solution for their power supply would be exorbitantly high.

Review of Volume 8

Section 5.13,1.1 states:

J-004-010 The proposed facilities for military relocation would require putting into service a Guam Power Authority (GPA) Combustion Turbine (CT), reconditioning four other existing GPA CTs, and upgrades to the existing transmission and distribution system on Guam. Establishing the power demand system for Navy requirements is not anticipated to affect the short-term productivity of the environment since there would be excess power supply of 4.91 megawatts in the peak buildup year of 2014. ... Provided all planned reconditioning of generating facilities and transmission and distribution improvements occur in a timely fashion, there would be no power shortfall."

GPA supports these statements.

Conclusion

J-004-011

GPA views the projected military build up load requirements for generation, transmission, and substation as achievable. GPA is pleased DOD will remain a GPA customer for all its power needs. This will require an extension and possible renegotiation of the GPA/Navy Customer Services Agreement (CSA). GPA is committed to shielding existing ratepayers from the negative impacts of he build up and will insist that DOD pay for its impact, both direct and indirect.

As this draft EIS/OEIS is finalized, the Department of Defense must firm up final decisions for power nfrastructure requirements so the work can begin without further delays. Thank you for the opportunity to provide written comments. GPA remains committed to working with the Department of Defense to meet the needs of the military relocation,

J.C. FLORES, P.E. General Manager iflores@gpagwa.com

Appendix

GPA EIS/OEIS Comments - February 12, 2010 - 7

Guam and CNMI Military Relocation DEIS/OEIS

J-004-010

Thank you for your comment. DoD concurs.

J-004-011

Thank you for your comment. Volume 6, Chapter 20 discusses how the proposed action may impact power rates on Guam. DoD believes that this work will not result in significant, if any, increases in power rates. Rather, by including more DoD sources as GPA customers, it will increase the customer base that may hold costs down for all users. Additionally, by reconditioning combustion turbines, and upgrading transmission and distribution lines, as proposed in the FEIS combustion turbines, and transmission and distribution lines, supports the "One Guam" approach by improving the IWPS reliability for all users. Since the funding to support the construction of the utility infrastructure for the Marine relocation is in the form of loans, these costs must be repaid in utility rates and/or other utility charges levied by the utility service providers and/or private entities contracted to effect the improvements. The current funding strategy has 100% of the financing provided by either the Government of Japan to cover all development costs including but not limited to design, construction, financing and capitalized interest. However, GPA has also expressed an interest in financing this work.

Appendix

LIST A

Transmission & Distribution Projects without Military Relocation

Pro	pject	Estimated Cost \$
1	Pulantat Substation Capacitor Bank	100,000
2	Dededo Substation Capacitor Bank	100,000
3	Orote/Cold Storage/SRF Substations (Navy)	140,000
4	Andersen Substation Capacitor Banks (2-6 MVArs)	300,000
5	Harmon X82 to Yigo X160 Overhead Line	1,400,000
6	Agana to San Vitores 34.5 kV Overhead Line	1,500,000
	TOTAL ESTIMATE	3,540,000

LIST B

Transmission & Distribution Projects Related to Military Relocation Load

	Projects	Estimated Cost \$
1	Harmon to Andersen 115 kV Overhead Line	21,788,000
2	Andersen Substation 112 MVA Transformer and Substation	4,830,000
3	Andersen Substation Capacitor Banks - 2-6 MVAR	315,000
4	North Finegayan Substation Capacitor Banks - 2-6 MVAR	315,000
5	North Ramp Substation Capacitor Banks - 2-3 MVAR	158,000
6	Harmon - North Finegayan - Underground Line	9,818,000
7	North Finegayan - Potts Junction - Andersen - Underground Line	15,593,000
8	Harmon - North Finegayan Overhead Line Upgrade	945,000
9	North Finegayan - Potts Junction - Andersen - Overhead Line Upgrade	1,523,000
10	Harmon Substation Reconstruction 115 kV and 34.5 kV	7,508,000
11	Piti to Orote 115 kV Overhead Line	8,505,000
12	Orote Substation 112 MVA Transformer and Substation	4,830,000
13	Orote Substation Capacitor Banks - 2-6 MVAR	315,000
14	Polaris Point Capacitor Banks – 2-3 MVAR	315,000
15	Piti X20 to Orote X35 Overhead Line Upgrade	945,000
	TOTAL ESTIMATE	77,703,000

T	transfer a	PR		
Ken	acement	Tab	P 5	14

Plant	Rated Capacity	Derated Capacity	Capacity Used	Unit Type
GPA RFO-Fired Generation				
Cabras #1	66	66	52	Base load
Cabras #2	66	66	47	Base load
Cabras #3	39.3	39	37	Base load
Cabras #4	39.3	39	37	Base load
Tanguisson #1	26.5	26.5	15	Base load
Tanguisson #2	26.5	26.5	15	Base load
MEC IPP Piti #8	44.2		-	Base load
MEC IPP Piti #9	44.2	44	42	Base load
GPA RFO-fired Generation Total	352.0	307.0	245.0	11.75
GPA Diesel #2-Fired Generation				
Manengon Diesel	10,6	8.8		Peaking, Reserve
Dededo CT #1	23	21	0.00	Peaking, Reserve
Dededo CT #2	. 22	340		Peaking, Reserve
Dededo Diesel	10	5	- 3	Peaking, Reserve
Macheche CT	22	20		Peaking, Reserve
Temes (Piti) CT	40	40	14	Peaking, Reserve
Yigo CT	22		- 7	Peaking, Reserve
Talafo fo Diesel	8.8	4	-	Peaking, Reserve
Tenjo Vista Diesels	26,4	24	H	Peaking, Reserve
Marbo CT	16		4	Peaking, Reserve
GPA Diesel #2-Fired Generation Total	200.8	122.8	4	
GPA Total	552.8	429.8	245.0	
DoD Diesels				
NCTS Finegayan	7.5	7.5		Backup, Dedicated
Radio Barrigada	4	- 4		Backup, Dedicated
Orote	19.8	19.8		Backup, Dedicated
Naval Hospital	2	2	· · · · · · ·	Backup, Dedicated
DoD Total	33,3	33.3		
System Total	586.1	463.1		
Peak Load Total		-	245.0	

Legend: CT = combustion turbine; GPA = Guam Power Authority; NCTS = Naval

Computer and Telecommunications Station.

Notes: All units in megawatts.



578 N. Marine corps Drive, Tamuning, GU 96913-4111 Phone: (671) 647-2603 Fax: (671) 646-2335

February 12, 2010

JGPO c/o NAVFAC Pacific 258 Makalapa Dr., Suite 100 Pearl Harbor, HI 96860-3134

Buenas yan saluda,

Guam Waterworks Authority (GWA) appreciates the opportunity to review the Draft "Environmental Impact Statement/Overseas Environmental Impact Statement for Marine Relocation, Transient Nuclear Aircraft Carrier (CVN) Berthing, and Army Ballistic Missile Defense (BMD) Task Force" (DEIS).

J-005-001

Because GWA is a water and wastewater utility, GWA's review focused on identifying environmental issues related to GWA's commitment in providing superior water and wastewater services to the residents of Guam and on GWA's regulatory role in meeting other commitments.

The comments in the attached review document present GWA's assessment of the content of the Draft EIS. GWA also has a number of recommendations within the document which GWA believes would help both the Department of Defense (DoD) and the people of Guam work together to bring the relocation project smoothly to successful completion within the time desired by DoD.

Un dangkulo na si yn'os ma'ase,

Leonard J. Olive, Sc. D., P. E.

General Manager.

LJO/pjk

Guam and CNMI Military Relocation DEIS/OEIS

J-005-001

Thank you for your comment.



578 N Marine Corps Drive Tamuning, GU 96913-4111

Good Water Always

February 12, 2010

JGPO c/o NAVFAC Pacific 258 Makalapa Dr., Suite 100 Pearl Harbor, HI 96860-3134

RE: GWA Review Comments on:

The "Environmental Impact Statement/Overseas Environmental Impact Statement for Marine Relocation, Transient Nuclear Aircraft Carrier (CVN) Berthing, and Army Ballistic Missile Defense (BMD) Task Force".

CONTENTS

- GWA Review Executive Summary
- II. GWA Comments on Utilities/Infrastructure
 - A. General
 - 1. Off-Base Impacts to Wet Utility Infrastructure
 - Land Use
 - B. Potable Water
 - 1. Aquifer Management
 - 2. Water Production
 - 3. Water Distribution
 - C. Wastewater
 - 1. Wastewater Flows
 - 2. Wastewater Collection
 - 3. Alternatives 3 and 8
 - 4. NDWWTP Upgrades
 - 5. Outfalls
 - 6. 301(h) waivers
 - 7. Mitigation alternatives Volume 6-Section 3.2.4.1
 - 8. Aquifer Impacts

Page 2 of 21.

I. GWA REVIEW EXECUTIVE SUMMARY.

Subject: Executive Summary for Guam Waterworks Authority's comments on:
"The "Environmental Impact Statement/Overseas Environmental Impact Statement for Marine
Relocation, Transient Nuclear Aircraft Carrier (CVN) Berthing, and Army Ballistic Missile Defense
(BMD) Task Force".

Guam Waterworks Authority (GWA) appreciates the opportunity to review the Draft Environmental Impact Statement (DEIS). Because GWA is a water and wastewater utility, GWA's review focused on identifying environmental issues related to GWA's commitment in providing superior water and wastewater services to the residents of Guam and on GWA's regulatory role in meeting other commitments.

J-005-002 WA acknowledges the challenges associated with the 2014 target date the Department of Defense (DoD) has for the Marine relocation, but the challenges GWA will face because of the military build-up must also be addressed by DoD. One overarching issue is fairness; where fairness means Guam residents do not bear more than its share of the environmental, social and economical impacts. For this reason GWA strongly agrees with DoD's stated objective to avoid the creation of "two Guam's." Guam aready has a disparity between the military community and the civilian community with respect to standards of living and access to services compared to other U.S. communities. Given the existing conditions of disparity on Guam, GWA's has concerns with respect to environmental justice. Specifically GWA's existing customers must not bear the negative impacts of this massive military build-up.

Despite the significant lack of information regarding collection system impacts, DoD appears to be keeping the "one Guam" goal in mind only when addressing wastewater issues. However, the failure to address impacts to water infrastructure outside of the base gates and to put the burden of construction and ancillary growth water needs fully onto GWA is clearly counter to the "one-Guam" concept. The failure to scriously discuss integrating water infrastructure into one single robust and redundant system to provide reliability for all of Guam's residents is unrealistic.

Incomplete information made it difficult to accurately identify the impacts that DoD's proposed actions will have on Guam's citizens and environmental resources. Baseline data is often absent, affecting the analysis and impacting conclusions. An example would be the site-specific assessment for groundwater which did not contain the baseline data.

GWA's review was focused on the water resource, water utility, wastewater utility and environmental justice of sections of Volumes 1, 2, 4, 5, 6 and 7 of the DEIS.

Overarching Issues:

J-005-003While GWA agrees major impacts will occur in the north, GWA disagrees with DoD's subjective population distribution assumptions that the only major impacts will occur in the north. (Volume 6-Sections 2,2 and 2.3) The population growth due to the military build-up will affect the water supply and wastewater treatment capacity island-wide. GWA disagrees with DoD's assertion that the military's responsibility ends at the fence line, or that there will not be any wastewater impacts on Central or Southern Guam.

J-005-002

Thank you for your comment. DoD is legally limited to spending its budget on what is needed for its operation and personnel. Spending DoD funds to repair civilian utility systems is not currently allowed by federal law. DoD is an advocate for Guam to obtain grants and low-cost loans from other U. S. Federal agencies, and for Guam to collect development fees that would be paid by DoD when the development is being conducted by a DoD contractor. Additional sources of income typically enhances the borrowing capacity of business entities if they are properly managed. DoD cannot fix GWA. Gov Guam must do that. However, GWA and DoD are cooperatively working together to plan for the expected increase in population on Guam. DoD has agreed to drill the 22 new DoD water supply wells early, and provide this water to GWA. along with excess water from DoD's Fena Reservoir, to meet the nearterm increase in water demand that is expected to occur off-base during the construction phase of the buildup. During this time, GWA would make improvements to their system to meet the long-term water needs of off-base communities. Concrete plans to resolve the projected shortfalls in the GWA water system must be in place prior to commencement of the DoD buildup. DoD and GWA are working on these solutions and the FEIS will include the most recent information on these efforts.

Wastewater is a totally different scenario as DoD is totally dependent upon GWA for wastewater services in northern Guam and comparison of the solutions to these two different systems is not valid. DoD would not and could not agree to fund any upgrades to the Hagatna wastewater treatment plant, yet there may be impacts to that facility or its collection system from induced civilian growth. Similarly, collection system improvements may be needed in the north, and DoD would not and could not agree to fund those either. Improvements of the North District Wastewater Treatment Plant are required for the proposed buildup and partial improvements are not viable; it essentially needs to be restored to

Page 3 of 21.

J-005-004 olume 6-Sections 3.1 and 3.2 contain conflicting discussions of funding sources for off-base infrastructure improvements, and puts the entire burden of these improvements onto GWA and the Covernment of Guam (Gov Guam). GWA does not have the resources to prepare for the build-up growth without assistance. The suggestion by DoD that a System Development Charge funding source would allow GWA to expand to meet customer needs during the construction phase is incorrect and shows a lack of understanding of such charges. Reliance thereon would certainly result in DoD being unable to meet its planned schedules because of the time it would take to accrue adequate funding by this means.

Recommendation 01: The EIS must address how these impacts will be mitigated as DoD's responsibility for mitigating such impacts.

Source Water:

J-005-005 WA has identified significant concerns related to Guam's federally designated sole source aquifer (SSA), as well as cause or contributions to violations of water quality standards. Additionally, the DEIS does not address how to resolve the level of uncertainty regarding the aquifer sustainable yield. The DEIS does not define sustainable yield in terms of the future cost to manage the aquifer as it approaches safe yield. For verifiable evaluation, a 3-dimensional model of the aquifer will be needed. Use of a 3-D subsurface aquifer model would help determine the effect on the aquifer of the addition water demands required by DoD for both the construction and military population growth.

Recommendation 02: Sustainable yield confirmation studies should occur so that additional information can be included in the EIS. The USGS study which is discussed in the DEIS, which will take 3 years to complete, is neither sufficient nor acceptable as described. Taking advantage of the body of information held by WERI and supporting its further development would provide more timely information from which good management decisions could be made in a timely manner.

Recommendation 03: The EIS must include a water supply and demand analysis for Guam. The water sources on Guam include groundwater and surface water. Evaluation bust proceed per sub-basin for quantity and quality of water at current and future pumping rate.

Recommendation 04: EIS must incorporate a 3-D subsurface water model to determine the baseline condition of the aquifer. This needs to be done in collaboration with the Water Environment and Research Institute (WERI) of the University of Guam where substantial progress in this area has already been made. This may require that DoD and other federal agencies provide funding to ensure that WERI can fully and expeditiously complete and calibrate the model.

Recommendation 05: From the 3-D subsurface modeling data; create a financial management plan for the cost of developing the aquifer as a function of the percent of safe yield. Use this financial management model to do an environmental justice determination. The 3-D subsurface model must be maintained as the tool in the management of the aquifer.

Recommendation 06: The EIS must quantify the uncertainty in supply including drought condition, water quality, rainfall infiltration and construction impacts on

original design basis.

Disparities between the standards of living between the military and civilian populations of Guam cannot and should not be fixed by DoD. This is merely a result of the fact that, other than the military and tourism, there is very little viable industry on Guam.

J-005-003

Thank you for your comment. DoD had to make some assumptions regarding where additional people would settle. The FEIS has been modified to include a qualitative assessment of indirect impacts to GWA wastewater treatment plants and their associated collection systems other than the NDWWTP from wastewater generated by the construction workforce and induced populations that are anticipated as a result of the military relocation. Assumptions were made about where the construction workforce would most likely reside on Guam by reviewing zoning and building applications submitted to the Government of Guam planning department by prospective contractors. This showed the construction workforce is expected to be resident two-thirds in northern Guam and one-third in central Guam. A socioeconomic analysis was conducted for the EIS using data from GovGuam and found that the induced civilian population growth is likely to be 38% in northern, 43% in central and 19% in south Guam. This information, coupled with limited available information from GWA and EPA on the condition of the GWA wastewater collection and treatment systems, was used to qualitatively assess impacts. Impacts to ecological resources and to human health were assessed for both the construction phase and the operational phase of the proposed military relocation, and can be found in the various resource chapters of Volume 6.

Funding for needed upgrades to the GWA wastewater treatment plants and island-wide sewage collection system (other than that which is directly related to upgrades and repairs the NDWWTP) is not identified in Page 4 of 21.

recharge.

J-005-006h addition, where areas within the Mangilao sub-basin that are proposed for eminent domain acquisition for military use also contain GWA water production resources (wells) some provision for protection of these GWA resources must be made.

Recommendation 07: Planning to support and protect all existing GWA infrastructure must be included in the EIS.

Drinking Water:

J-005-007 he buildup will result in an island-wide shortfall of produced water supply projected for 2013-2015 (construction phase of the buildup). This significantly impacts performance of GWA's public water system. Because the project construction workforce would reside within the GWA public water system service area, DoD assumes that GWA will make the necessary upgrades. However, GWA and Gov Quam agencies have serious financial and other resource constraints. The DEIS does not consider the potential impacts to public health and safety should the GWA water and wastewater system expansions not occur at the level sufficient to support the increased construction-phase population. The System Development Charge, which becomes effective as of March 01, 2010 will only begin accrual at that time. The proposed reliance by DoD that this funding source would allow GWA to expand to meet customer needs during the construction phase within the DoD planned time scope, is entirely incorrect. Were DoD to rely solely on this funding source as a means to support the construction phase, it would result in DoD being unable to meet its planned schedules.

Recommendation 08: DoD should assist in financing the development of the wells and supplemental water distribution infrastructure in order for GWA to provide water related to the construction work force in a timely manner. The long lead time to negotiate with the work force housing developer and the time to develop the wells will have a significant impact on the construction timing. If DoD intends to pay for the cost of well development via a developer reimbursement, the process above will not accrue any addition cost to DoD.

Recommendation 09: DoD should transfer any and all viable unused wells to GWA including the real property associated with the well sites. DoD must still provide the funding to clean up wells that are not meeting water quality standards. Specific examples are the Tumon-Maui Well, MW Series Wells, and new AAFB wells.

Water Infrastructure:

J-005-008 WA has identified significant concerns related to Guam's already stressed drinking water distribution in frastructure. In addition, there is uncertainty as to whether the Northern Guam Lens Aquifer (NGLA) federally designated as a Sole Source Aquifer (SSA) under the Safe Drinking Water Act, has the sustainable yield needed where desired. Contamination threats to the aquifer from point and non-point sources are also a concern, but were not analyzed in the DEIS.

Recommendation 10: To address source water protection, long term water quality concerns, of the SSA (NGLA); include in the mitigation plan the transfer of waste water sources currently on a septic system to sewer systems.

the FEIS beyond what has already been identified in the GWA's Capital Improvements Program (CIP), and in a recent EPA Region IX assessment of GWA's CIP and companion conceptual cost estimate for 5-year and 25-year capital and operational needs. The FEIS provides information on GWA and GovGuam's ability to fund upgrades, including information on GovGuam's debit rating and history of funding shortfalls. DoD acknowledges the existing sub-standard conditions of the GWA wastewater system on Guam and the desire by many for DoD to fund improvements to these systems and services. DoD's ability to fund projects that are not within direct DoD ownership or control is limited by Federal law. However, DoD recognizes the need to identify and integrate solutions for both on-base and off-base utility infrastructure on Guam, and desires to minimize adverse impacts associated with the proposed military relocation program. To this end, DoD is serving as the lead federal agency on a multi-agency group charged with identify Federal programs and funding sources to make the necessary repairs and upgrades to Guam's utility infrastructure systems. Concurrently, DoD, EPA Region IX, GEPA, GWA and the CCU are working together to identify and integrate solutions for both on-base and off-base wastewater needs which meet environment requirements, provide reliable and uninterruptable service, and are affordable for all users.

J-005-004

Thank you for your comment. The FEIS has been substantially modified to assess potential impacts from the off-base indirect workforce and induced populations. This assessment is largely qualatative because DoD does not own the off-base utilities, control where construction workforce housing and induce populations will ultimately be, and because there is limited information on existing conditions of water and wastewater systems from GWA, GEPA and EPA Region IX reports. The FEIS looks at breakpoint years where water demand could exceed available supply, and commits to providing excess water to meet off-base demands during the construction phase of the military relocation by

Page 5 of 21

J-005-009

Recommendation 11: DoD should provide water at a agreed cost for any transfer of water during the construction phase. DoD should provide rate relief for the water currently (4 MGD) provided by DoD since under GWA's present rate structure as controlled by the Guam Public Utilities Commission causes GWA to sell Navy water to some customers below the cost of the water and there is no way to separate Navy water customers from other customers.

Recommendation 12: DoD needs to move forward with planning to integrate all water systems on Guam to provide efficient source control and provide economical, robust, reliable and redundant water supply to all water users on the island. The precedent/model to follow would be of the same type of procedure that allowed DoD to become a full power customer of GPA. This would allow DoD to discontinue its attempts to economically operate utilities.

J-005-010 Wastewater Infrastructure:

WA has identified significant concerns related to Guam's already stressed wastewater infrastructure.
WA does concur however with DoD's plan to upgrade the Northern District Wastewater Treatment

Recommendation 13: The ongoing Northern District Wastewater Treatment Plant study will identify and address impacts expected to occur during the time frame. This information should be incorporated into the final EIS for an improved project-level analysis. The EIS should also include the funding requirements needed to implement the long-term wastewater alternatives and associated actions needed to ensure long-term compliance with federal environmental laws.

Recommendation 14: The EIS must address impacts to the wastewater collection system, including the already stressed Central Guam collection system. Identification of impacts should include both anticipated military growth areas and ancillary impacts.

Recommendation 15: The EIS must address the potential for ancillary or construction growth to occur in Central and Southern Guam and the potential impacts to the Hagåtña and Southern Wastewater Treatment Plants, including at what level additional upgrades or expansion would be required to maintain environmental compliance.

Secondary Impacts:

A Population distribution model should be complete to determine the impacts. Ancillary growth along the Marine Corps Drive corridor in Upper Tumon is extremely likely. This area contributes to the Hagătña Wastewater Treatment Plant and the collection for this area is already at a stressed maximum capacity.

Recommendations 16: The EIS must acknowledge the potential for impacts to this system; to the Hagâtña WWTP and other locations throughout Guam. DoD should work with GWA to define solutions and funding sources for those solutions to prevent, in wet weather, sanitary sewer overflows, combined sewer overflows and improperly treated wastewater.

installing DoD wells early, and finding other sources of excess water from existing DoD systems. For wastewater, the FEIS commits to upgrading the NDWWTP that is expected to receive two-thirds of the wastewater flows from the construction workforce housing areas. The FEIS also identifies off-base impacts that will be significant in the event that GovGuam and GWA do not complete needed repairs and upgrades to the water and wastewater systems as currently required under a 2003 Stipulate Order and the GWA Capital Improvements Program (CIP). The FEIS does not provide details of what projects are required off-base beyond what has already been identified in the GWA CIP and in followon assessment reports prepared by EPA Region IX which assessed the validity of the CIP. DoD acknowledges the existing sub-standard conditions of key public infrastructure systems including the potable water and wastewater systems on Guam and the interest to have DoD fund improvements to these systems. The DoD cannot take full responsibility to repair GWA's off base water and wastewater systems to remedy these serious existing conditions because DoD's ability to fund infrastructure improvements is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, the DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam. DoD has identified mitigation measures within DoD control and outside DoD control, including measures that GWA and GovGuam could implement to address the shortfalls provided funding sources could be found. Because it is doubtful that GWA could fund and implement required upgrades in time for the start of the proposed DoD relocation, it is anticipated that public health and safety impacts from increased demand on potable water would be significant until the necessary off-base infrastructure improvements could be completed.

J-005-005

Thank you for your comment.

J-005-011 umulative Impacts:

The cumulative impacts of the projects are vastly underestimated. With the exception of the Northern District Waste Water Treatment Plan, the cumulative effect of this project on wastewater infrastructure and the effects on the NGLA are not present in the DEIS.

Recommendations 17: The EIS must assess and quantify impacts to water transmission, storage and distribution systems; to wastewater collection systems including pump stations and to the Hagatha and Agat-Santa Rita Wastewater Treatment Plants. Mitigation and funding issues to address these impacts must be resolved.

The fact that sustainable yield will be impacted by addition of impervious surfaces (roofing, paving, etc.) has not been addressed. There are two serious concerns raised by this lack in that (1.) directing storm water directly to the ocean reduces the natural groundwater recharge, and (2.) excess freshwater runoff directly into the ocean has an immediate impact on the marine environments and no discussion of Coastal Zone Management Act (CZMA) certification of mitigated impacts has been discussed.

Recommendations 18: Mitigation for stormwater management needs to be addressed in terms of pretreatment and direction to recharge basins rather than diversion to the ocean. This would address both concerns by also preventing damaging uncontrolled fresh water runoff into the marine environment.

J-005-01 Ehvironmental Justice:

The environmental justice with respect to wastewater and water service is extremely understated. One overarching issue is fairness; where fairness means Guam residents do not bear more than their share of the environmental, social and economical impacts. Guam already has a disparity between the military community and the civilian community with respect to standards of living and access to services compared to other U.S. communities. Given the existing conditions of disparity on Guam, GWA has concerns with respect to environmental justice, specifically recognizing that GWA's existing customers must not bear the excess cost impacts of this massive military build-up. One clear example of er vironmental justice is the increase cost in water production due to DoD's Build-up. The DEIS does not include a financial management model for the cost of developing the aquifer as a function of the percent of safe yield. The DEIS does not include the increased cost of water to the residents of Guam after the groundwater is maximized and other sources of water such as surface water must be utilized. Additionally much of cost of infrastructure due to the DoD build-up as expressed in the DEIS would fall on the current GWA rate payers. DoD did not include a financial model to determine the cost of ungrading the current system including water distribution, water production, wastewater collection, or wastewater treatment.

Recommendation 19: DoD must include in the EIS a financial model to determine the cost impact of upgrading the current system on the current residents of Guam. The financial model must include water distribution, water production, wastewater collection, and wastewater treatment. A detailed financial management model must be developed on sources water including the financial management model for the cost of developing the aquifer as a function of the percent of safe yield. Using data from the model, do an environmental justice determination to ensure the existing rate payers do not bear any negative impacts of this massive military build-up

Recommendation 02: In October 2009, fully comprehending the importance of protecting the sole source NGLA, DoD initiated an effort with GWA/CCU to co-manage the NGLA. This effort proposed that GWA and DoD, the two entities that rely on the NGLA as a major source of water would need to work as one to protect this critical resource. The proposal was to cooperatively assess the impacts of proposed developments, use the upcoming USGS study to guide efforts to manage the NGLA, and leverage DoD and GWA resources to cooperatively address potential impacts and propose alternatives to mitigate adverse impacts to the NGLA. Although this initiative to work together cooperatively was advanced at subsequent meeting in November 2009 and January 2010 that created consensus on the way ahead, both GWA and EPA raised concerns with the DEIS knowing that many of the issues they raised are already being addressed. It is further noted that EPA was invited to these meeting, but declined to attend unless DoD funded their participation.

During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group, which includes EPA, GEPA, GWA, DoD, UoG-WERI, and USGS, also met (less EPA) in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimensional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aguifer

Page 7 of 21.

J-005-012

Recommendation 20: DoD, the Joint Guam Program Office and Naval Facilities Engineering Command Pacific needs work with Guam personnel to address these issues before the Final EIS is publicly public released.

to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the stakeholder meetings and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS.

Recommendation 03: The EIS evaluated current and projected water demand for all of Guam, including civilian growth and needs for the anticipated imported work force. Numerous options for additional water sources were evaluated and presented in Volume 6 chapter 2. Also information from GWA was utilized in this evaluation.

Recommendation 04: Please see response to recommendation 02 above. Such 3 dimensional model cannot be completed in time for the final EIS but DoD is committed to properly model and manage the aquifer. In addition, DoD had a recent review of the 1991/2 sustainable yield report assumptions performed by WERI, and their conclusion was that the assumptions used in this report remain valid today.

Recommendation 05: DoD suggests that this recommendation be discussed during one of the DoD/GWA monthly meetings on the goals and objectives of the USGS aquifer modeling.

Recommendation 06: Please see response to Recommendation 02. In addition, DoD is pursuing efforts to incorporate sustainability into all of the projects related to the military buildup. Each project is targeted to meet LEED Silver and efforts are underway to evaluate infrastructure from the standpoint of good, better or best wherein good meets LEED Silver and better and best exceed that standard and provide the opportunity to determine the affordability of exceeding the minimum. This effort is being accomplished using a trademark system "SSIM". With respect to water usage the SSIM process evaluates: low impact

Page 8 of 21.

II. GWA Comments on Utilities/Infrastructure

II. A. General

J-005-013

Off-Base Impacts to Wet Utility Infrastructure

According to the DEIS Volume 6-Section 3.1.2.1, capital improvements to the wet utility systems to meet the induced and construction worker populations "would be financed through surplus system revenues, grants and loans." As DoD is well aware (through financial documents provided by GWA to DoD and its consultants), GWA does not have any "surplus system revenues", and no source for grants has been identified. The DEIS states that "GWA has prepared a 5-year CIP for fiscal years 2009-2013." GWA's five year rate plan is for critical system projects, based on the GWA Water Resources Master P an (WRMP), that are needed; irrespective of the military build-up; to satisfy regulatory and system need requirements. GWA will not have any additional borrowing capacity once these projects are financed using GWA Revenue Bonds.

Volume 6- Section 3.2.3 conflicts with the Volume 6-Section 3.1.2.1 statements by saying that the water system expansions "would be funded through collection of user fees from GWA customers. This would include user fees to be paid by contractors funded by DoD that would provide housing for construction workers."

As DoD is aware, GWA has only recently received approval for these System Development Charges (3DC's) by the Consolidated Commission on Utilities (CCU) and the Guam Public Utilities Commission (PUC). The fees go into effect on March 01, 2010. However, even as these fees are collected, funding will lag far behind even normal growth needs. GWA estimates of user fee accrual rates indicate that it would require approximately 20 to 50 years before GWA would have collected sufficient funds to finance the full scope of the system projects required to support military growth project populations. Thus, depending upon SDC's to finance growth would result in inadequate finding. It will supporting only areas for single facilities rather than permit utilizing good overall system planning. The net effect would likely be delays in construction while infrastructure projects are completed which in turn could impact DoD schedules. This approach further ignores the fact that the SDC's are subject to approval by the PUC. Further there are other projects as described in the GWA WRMP that are expected to use these fees, exclusive of projects related to the military buildup. Finally, having individual small developers pay to bring water and sewer services to individual sites may not be good for the overall system.

Recommendations 21: Upgrades need to be engineered in holistic fashion using full system planning for which individual developers cannot be expected to pay. These decisions will require cooperation of all agencies on Guam.

The DEIS in considering the water supply issue; has noted that DoD water could potentially be supplied to supplement construction worker usage, and for upgrading the NDWWTP for wastewater treatment. GWA will continue to actively engage in planning in these areas. However, no discussion is provided for other infrastructure, including water transmission, water storage, water boosters or water distribution. Further there is no discussion of wastewater collection and pumping, all of which will need financing for military impacted growth upgrades.

landscaping, Intelligent irrigation (with the exception of key limited areas no irrigation will be incorporated), high efficiency water fixtures, reuse of rainwater, and detain, retain and treat techniques for stormwater. It is DoD's intent to incorporate many of these requirements into its facilities and site infrastructure. By applying low impact development (LID) initiatives, DoD will focus on precluding and/or minimizing runoff and maximizing the infiltration of quality water to recharge the NGLA. A LID study has been done and has been added to the final EIS. So a conscious effort is being undertaken to reduce water demand, maximize infiltration of quality water and reuse water resources wherever possible to minimize demand for water from the NGLA. DoD could address a Joint Region effort to conserve water by applying policies that would limit the use of water and initiate water saving improvements throughout installations on Guam. With the support of NAVFAC MAR this has been committed to in the FEIS.

J-005-006

Thank you for your comment. DoD agrees that protection of GWA infrastructure that may ultimately end up within DoD property is needed, and will work with GWA to protect these assests.

For protection of the aquifer, DoD is concerned about preventing contamination of surface waters and groundwater (particularly drinking water aquifers). The EIS describes numerous programs and actions that will be taken to protect surface waters and groundwater from stormwater runoff. Construction of new facilities will use Low Impact Development (LID) principles to the extent practical. LID is a design philosophy that seeks to reduce the impact to the environment from new construction projects through the reduction of impervious surfaces. LIDs principles incorporate the design of facilities the use of native vegetation, pervious (porous) surfaces to reduce storm water runoff and encourage recharge of groundwater, and water conservation. DoD is currently conducting a LID study that will identify specific types of alternative designs that can be incorporated into the construction of facilities associated with the

Page 9 of 21.

1-005-013 WA does strongly concur with and supports the concept of rate relief for existing customers to shield em from the costs of growth caused by military development. However, no sources were identified r this relief in the DEIS, it merely notes that such relief is "anticipated" (Volume 6-Section 3.1.2.1) and will be "significant" (Volume 6-Section 3.2.3).

> Recommendation 22: DoD needs to work closely with the "federal family" of agencies to define specific funding sources for the off-base impacts to GWA's systems and for rate relief to existing customers. Such sources must be identified as soon as possible so that incoming construction workers and other induced growth do not stress existing systems and their needs can be met in a timely manner.

2. Land Use

Volume 6-10.2 ENVIRONMENTAL CONSEQUENCES

Volume 6-10.2,6 Off Base Roadways Volume 6-10,2,6.6 Summary of Impacts

"The Draft North and Central Guam Land Use Plan (GLUP) has addressed the changes in future land use as a result of the proposed Guam and CNMI military relocation project, as well as other military facility expansions over the next 20 years"

The Northern and Central Guam Land Use plan as cited in the DoD section above does not provide clear answer for land use. The following paragraph is cited from the Draft North and Central GLUP, Chapter 2 Land Use, Section 2.3. Summary of Existing Conditions - Population and Demographics. paragraph 4:

"...Total population growth over the next 20 years is forecast at 34%. While it has not yet been determined where on Guam this growth will primarily occur, current land use plans indicate that the northern portion of the island is likely to absorb a greater proportion of this growth than the south, given the less mountainous terrain and more widespread availability of public services."

In addition, the following statement is also cited from the Draft North and Central GLUP Chapter 6-Transportation, Section 6.2 Goals and Policies, Goal T2, Policy T3,

"Work with the Department of Defense and other agencies to prioritize needs and funding sources associated with future military-induced growth."

3-005-014t is evident from these statements the Draft North and Central GLUP does not provide a definitive ar swer related to changes in land use as DEIS "Summary of Impacts" asserts. In addition, this statement ighores the many military personnel who reside in Central and Southern Guam, and after the buildup these numbers will undoubtedly increase thereby placing greater demands on GWA's water and wastewater systems in these areas

> Recommendation 23: The EIS needs to fulfill the objectives set called for by Gov Guam and DoD in the Draft North and Central GLUP. It presently does not provide a definitive answer related to changes in land use as DEIS claims,;

> Recommendation 24: DoD must clarify and quantify population impacts off-base, both during the construction phase and after military relocation is completed. It must also

buildup. DoD is also preparing a stormwater pollution prevention plan (SWPPP) and will apply for permits that regulate stormwater discharges during construction. The permit and plan is focused on reducing the amount of earth and soil that is exposed to stormwater during earthdisturbing activities (such as land clearing and grading), providing stabilization of soils during construction through the use of ground covers, and sediment ponds and traps/screens to reduce pollutants getting into storm runoff and from percolating into the ground. These plans also have specific requirements for containment of potential pollutants at construction sites (such as storage areas for equipment fuel). Lastly, DoD is developing a recycling plan in consort with the stormwater construction plan that calls for the use of mulch on exposed soils, mulch that will be generated during the clearing of trees and low growth during land clearing activities. Once construction is complete, a SWPPP will be developed to control stormwater runoff and infiltration from base operations. This is being done on a regional DoD Guam-wide scale, and has the involvement of Guam EPA.

J-005-007

Thank you for your comment.

From the initial and now near monthly meetings with GWA that began in October 2009, DoD has focused efforts on the off-base water demand generated by workforce housing and induced civilian growth resulting from the buildup. Since the release of the DEIS, DoD has moved up its water Private Entity effort to begin in 2011 vice 2013 to allow it to make the water produced from the new wells at AAFB available to support the off-base demand (depending on the rate that the Marines occupy the new base, beginning in 2013 it is expected that 2 to 6 MGD can be provided to GWA depending on their requirement for the water and after full occupancy of the new base it is projected that 2 to 4 MGD could continue to be provided). Making water excess to DoD needs available

Page 10 of 21.

J-005-014

address the variability in population locations other than limiting the evaluation solely to

to GWA allows DoD to address GEPA's concern that GWA does not have available yield to support the off-base demand related to the buildup. GWA does not prefer the option to obtain water from DoD and prefers that the resources to produce water be transferred to them. This is a complex issues that involves federal water rights and will likely not be resolved to support GWA desires to control the production assets. However, it may be possible to address their desire to have a special rate for water obtained from DoD if a means to support this request can be accommodated in the Navy Working Capital Fund construct that NAVFAC MAR must comply with. Understanding that this water will not be available to meet the early workforce related demand expected in 2010-2012, DoD discussed with GWA at its January 2010 meeting an effort to "wring out" excess water from the DoD (NAVFAC MAR) water systems. In line with this effort as part of the creation of the Joint Region on Guam, NFM is in the process of integrating the former Air Force water system into a single DoD water system for the island and is aware that this system has excess capacity. As GWA points out in its comments there are wells owned by DoD that are not currently being produced for various reasons that include: high operating costs, treatment concerns, well reconditioning requirements, and excess to the needs of current demand. These wells have the potential to produce somewhere between 3 to 5 MGD of water (Tumon-Maui well can produce 1 MGD, the AF has indicated that their former system has 1.7 MGD excess and wells at Finegayan have excess capacity depending on who is asked .5 to 1.5 MGD). By identifying all the excess water and working closely with GWA, DoD has the ability to help GWA address the near term requirement to provide water to workforce housing. The water appears to be available now and is already connected to distribution systems that will assist in the effort to move it to the demand areas. The effort to make this excess water available to GWA is underway and will become an item to be addressed in an MOU that is being negotiated with GWA. Further providing excess water to GWA will be an issue that will be addressed in a customer service agreement that will likely outline DoD's

II. B. Potable Water

Aquifer Management (Source Water)

As discussed in:

Volume 2-3.1.1.1 Geologic Overview

Volume 2-3,1.1.3 Geologic Units

Karst Geology

Volume 2-4,1.1.3 Groundwater

Groundwater Availability

Groundwater Quality

Table 4.1-1. Sustainable Yield Estimates and Recent Annual Average Pumping, NGLA

Volume 6-2.2.3.1 Water Supply Sources
Volume 6-2.2.3.2 Volume 6-2.2.3.2 Volume 6-2.2.5.5 Water Supply Sources
Volume 6-2.2.5.5 Guam Water Well Testing Study

Volume 6-2.2.5.5 Guam Water Well Testing Study
Volume 6-2.2.5.6 Northern Guam Lens Aquifer (NGLA) GWUDI Evaluation

Volume 7-2.3.4 Potable Water

The above referenced sections evaluate the Northern Guam Lens Aquifer (NGLA) as a single intact unit. The studies of sustainable yield which have been done have also focused on aggregate recharge for usable supply.

The NGLA is in fact composed of 6 sub-basins. (This excludes Southern Guam which realistically can serve mainly as a source of surface water.) [Please see "Figure 1. Mapping the 7 water management zones of Guam" below.] The necessity of managing the sustainable water supply on a basin by basin basis, while identified, has never been adequately quantified. The bulk of available data applies to the Yigo-Dededo Trough section through the middle and which is the largest single sub-basin.

J-005-015

The divisions between the sub-basins are weathered volcanies which while porous are much less permeable than the Karst limestone formations that they separate. The volcanic sub-basin partition permeability is lower by 3 to 6 orders of magnitude (1/1,000th to 1/1,000,000th of limestone permeability). This porosity difference amounts to virtual total barriers to transmission of water between sub-basins. For all the reasons described in the above referenced sections of the DEIS, it is clear that there is a need to quantify the recharge and sustainable yields for each individual sub-basin so that each can be managed individually. Even the proposed "6-2.2.5.7" USGS NGLA Study" does not address this need.

The University of Guam Water and Environment Research Institute (WERI) already has initial information to support the quantification of sub-basin sustainability. WERI is also drafting a true Three Dimensional Subsurface model of Guam's groundwater.

Recommendation 25: Quantifying the yield on a sub-basin by sub-basin basis is critical to viable potable ground water planning before wells can be properly sited to work within sustainability limits for any given location. It may be practical to obtain good decision making information in a very short time period, especially if the "USGS NGLA Study" it teamed up with WERI and supports WERI's ongoing projects studying Guam's source waters. [See also Recommendations 02, 04, 05 and 06 above.]

efforts to work more closely with GWA to optimize the effectiveness and efficiency of the respective water systems. Although GWA does not like to obtain water from DoD, this option allows GWA to avoid the capital improvement costs required to develop water resources and allows them to focus their capital on improvements to their distribution and storage system.

J-005-008

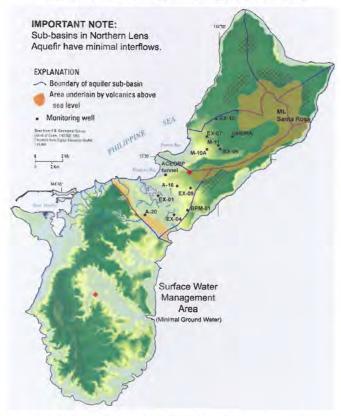
Thank you for your comment. DoD concurs that converting septic tank/leach field systems would enhance protection of the NGLA. This mitigation will be added to the Final EIS in the category of mitigations outside of DoD control.

J-005-009

Thank you for your comment. The Guam Water Authority (GWA) and DoD are cooperatively working together to plan for the expected increase in population on Guam. DoD has agreed to drill the 22 new DoD water supply wells early, and provide this water to GWA, along with excess water from DoD's Fena Reservoir, to meet the near-term increase in water demand that is expected to occur off-base during the construction phase of the buildup. During this time, GWA will make improvements to their system to meet the long-term water needs of off-base communities. Concrete plans to resolve the projected shortfalls in the GWA water system must be in place prior to commencement of the DoD buildup. DoD and GWA are working on these solutions and they will be included in the final EIS.

Combining and integrating both the DoD and GWA water systems would be a major undertaking that is beyond the scope of the EIS. Also, it would cause DoD to lose control of their water systems to GWA, whose performance to date has not been exactly exemplary as they are under a stipulated order from EPA. At this point in time, DoD certainly plans on cooperating with GWA and assisting them to the full legal extent of their

Figure 1. Mapping the 7 water management zones of Guam. (6 subsurface water lens sub-basins and one surface water area.)



The impacts on recharge of the aquifer due to the DoD buildup projects was presented with supporting data to collected to perform quantitative analysis for water quality and water quantity. The reduction in permeability and unspecified needed increases in ponding basins exacerbates the uncertainty of the supply of the aquifer per Volume 2-Section 4.1.1.3. The potential increased sensitivity to contamination of the aquifer due to the recharge impacted by DoD buildup activities while noted had no quantitative mitigation strategy. Volume 2-Section 4.2.2.1. further indicates that construction will have an impact on the aquifer recharge both in terms of water quality and water quantity without quantification or adequate mitigation addressed.

Recommendation 26: Recharge impacts need to be quantitatively evaluated, and remedial mitigation must serve the determined need.

capability, but would not concur to combine the two water systems. Interconnects would be planned to permit water sharing back and forth as agreed upon.

Existing water rates are not within the scope of the EIS.

J-005-010

Thank you for your comment.

Recommendation 13: The final EIS has been modified to include the required upgrades to the North District Wastewater Treatment Plant (NDWWTP) that were documented in the recent study of that plant. Long-term needs for wastewater treatment are the jurisdiction of GWA, and once the impacts of the proposed DoD buildup have been provided for, DoD defers to GWA to properly maintain, operate, plan, and fund future needs. DoD would be a rate paying customer and contribute their fair share for those needs.

Recommendation 14: The DoD would install collection system improvements for the areas of new development, but by law cannot financially fix other current deficiencies in the GWA sewer collection system.

Recommendation 15: Please see response to Recommendation 14.

Recommendation 16: The final EIS has been modified to recognize that other locations besides northern and central Guam may be impacted by civilian growth. DoD is willing to work with GWA in assisting with finding and helping to facilitate funding sources to fund the required upgrades.

J-005-011

Thank you for your comment.

Page 13 of 21.

J-005-015

Recommendation 27: Considerable aquifer recharge modeling has already been done by WERI and support for extending this work would significantly shorten the time it would take to reach reliable quantification of recharge impacts which in turn would allow balanced mitigation strategies.

2. Water Production

Volume 6-2.2 POTABLE WATER

Volume 6-2.2.3 Water Supply Sources

Volume 6-2.2.3.2 Non-DoD Water Supply Sources

J-005-016 Between the existing non-DoD water supply sources and GWA's rehabilitation and expansion plans, there is sufficient water supply to meet the anticipated non-DoD water demand, provided that the proposed system expansion is operational in time to meet increased demand."

Recommendation 28: Under present circumstances, identified system needs "anticipated" by DoD will not be operational within the targeted time frame as funding for the stated system expansion will not be available by the time needed. GWA CIP funding is subject to grants, bonds and other outside sources. DoD needs to assist GWA in accessing timely funding to construct needed infrastructure.

J-005-01 Surface water.

Volume 2-Section 4.1.5 and Volume 6-Section 2.2.3.5 suggest the use of the Talofofo River watershed (misnamed in the DEIS as the Lost River Watershed) while partly within the Naval Magazine Reservation is not an avaiable option for DoD development. This watershed includes the Talisay, Maemong, Bonya and Talaeyuus Streams which go underground to re-emerge in the Maagas River which meets the Mahlae River to become the Talofofo River. The Talofofo River is also fed by the Sagge, Tinechong, Sarasa and Malaja Streams.

"The Guam Surface Water Development Study" (Barrett Consulting Group, 1994) reserves The Talofofo watershed as an expansion source for GWA's existing Ugum Surface Water Treatment plant. The GWA Ugum facility will need to extend a second inlet to the Talofofo River to reliably maintain steply for the treatment capacity of 4 MGD in the dry season (or during below normal rainfall canditions). A minimum flow in the Ugum River of 2 cfs (889.2 gpm or 1,3 MGD) must be maintained and the river flow in dry season can drop below the necessary 5.3 MGD needed to sustain Ugum River Surface Water Treatment Plant's production rate. The second source inlet is engineered to access the Talofofo River (Lost River in the DEIS) just above its junction with the Ugum river. A minimum flow limitation for the Talofofo River will also be imposed, but the combination of the two sources are calculated to be sufficient to provide Ugum with its needed supply.

Recommendation 29: The EIS must drop the Talofofo Watershed ("Lost River" watershed) from its supply development options. This again points to the need of managing all of Guam's water systems as a single integrated system.

Recommendation #17: Detailed impacts to the GWA water system were not included in the DEIS because detailed up to date information was not readily available. The impact to the Hagatna WWTP is discussed in the EIS. Marine relocation would not impact wastewater flows to Agata-Santa Rita WWTP so the impacts to the plant were not included in the DEIS. Per federal regulations, DoD is restricted to certain types of expenditures.

Recommendation # 18: DoD agrees with this recommendation and a study on how to incorporate low impact development has been conducted. This study covers the proposed Marine facilities at Finegayan. The results of this study are included in the FEIS. Incorporation of the recommended elements in this study would minimize the reduction of aguifer recharge from the new Marine facilities.

J-005-012

Volume 2 Chapter 16, Volume 6, and Volume 7 of the Final EIS document less than significant direct impacts related to potable water and wastewater associated with construction and implementation of the proposed action. However, significant indirect impacts on potable water and wastewater systems associated with induced population of the construction workforce and other induced development may impact public health. These impacts would result in disproportionate, adverse health impacts on minority and low-income populations and children, as discussed in Final EIS Volume 6 Chapter 20. Mitigation measures are discussed in Volume 6 Chapters 3 and 20 and are summarized in Volume 7, including monitoring of the aguifer and potable water and wastewater systems and working with the Government of Guam to protect the water supply. DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and health care services on Guam that particularly affect minority and low income populations and children, and the interest to have DoD fund improvements to these

J-005-017Surface Water Development.

The surface water management area of southern Guam (See "Figure 1. Mapping the 7 water management zones of Guam." on page 10 above) was thoroughly studied by Barrett Consulting Group generating the 1994 report "Guam Surface Water Development Study". This study provides the information that would allow GWA to maintain capacity for surface water production even through the worst drought on record in 1971-1972. In addition it provides the information necessary to manage future growth needs that can be satisfied by using surface water resources.

Recommendation 30: Should DoD feel that new surface water resource development is warranted, it would be to the advantage of all island residents if a cooperative project were put forward and the resources and water systems were integrated into a single operating system. In addition to the "economy of scale" business case, maintaining a fully redundant asset management program would not only maximize reliability, but would manage cost for the greatest return on investment.

J-005-018 kak detection:

In Volume 6-Section 3.2.3 the DEIS suggests in the Mitigation for Potential GWA Potable Water Shortfalls outside DoD Control finding additional supply via Unaccounted For Water in water loss (estimated at 50%) because of leaks. This has proven to be incorrect. The ongoing, multi-million dollar leak detection and system study, contracted by GWA, has verified that only a small portion of the "Unaccounted For Water" is a result of leaks. It has been demonstrated only 4 MGD in leaks exist in the system which is just over 10% loss by leaks. The acceleration of the leak detection program will not create this new source water. Even after a robust pipe replacement program based on the data collected by the leak detection program will the a significant amount (less the 3 MGD) of source water be recovered. GWA does not currently have funding sources for this pipe replacement program identified by GWA's leak detection program.

It is a matter of record that the water distribution system about which DoD expresses leakage concerns is to a considerable extent a water piping system that was installed by DoD and later abandoned to Gov Gham when the military presence on island was drastically reduced.

Recommendation 31: It would benefit both DoD and GWA's rate payers for DoD to accept a share of responsibility for the condition/age of the GWA distribution system and to help pay for the pipe replacement program identified by GWA's leak detection program.

Water Quality

J-005-019 blume 6-Section 2.2.3.2 notes that GWA and GEPA have an ongoing well plan for chloride management in the island's wells. In cases where the level of chlorides is increasing in GWA wells a flow rate mitigation strategy is being employed. With GEPA the well plan for the effected GWA wells includes supplementing supply from areas where chloride levels are stable or diminishing. The well plan targets GWA reduce the pumping of wells in the chloride affected well field by 2 MGD. Due to the uncertainty of weather the reduction will work to evaluate this project and collect additional data will continue.

systems and services. DoD's ability to fund actions is limited by federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other federal programs and funding sources that could benefit the people of Guam, particularly its disadvantaged populations.

J-005-013

Thank you for your comment.

Funding to meet on-base DoD water demand is described in the FEIS and is expected to come from Government of Japan loans. Additionally, DoD proposes to transfer excess DoD water to meet anticipated off-base shortfalls during the military relocation construction period, and will also seek Government of Japan loans to provide interconnection between the DoD and GWA water systems. Funding for needed upgrades to the GWA wastewater treatment plants and island-wide sewage collection system (other than that which is directly related to upgrades and repairs the NDWWTP), and for off-base water systems is not identified in the FEIS beyond what has already been identified in the GWA's Capital Improvements Program (CIP), and in a recent EPA Region IX assessment of GWA's CIP and companion conceptual cost estimate for 5-year and 25-year capital and operational needs. The FEIS provides information on GWA and GovGuam's ability to fund upgrades, including information on GovGuam's debit rating and history of funding shortfalls.

DoD acknowledges the existing sub-standard conditions of the GWA water system on Guam and the desire by many for DoD to fund improvements to these systems and services. DoD's ability to fund projects that are not within direct DoD ownership or control is limited by Federal law. However, DoD recognizes the need to identify and integrate solutions for both on-base and off-base utility infrastructure on Guam, and desires to minimize adverse impacts associated with the proposed military relocation program. To this end, DoD is serving as the lead

Page 15 of 21.

J-005-019

Recommendation 32: DoD needs to become an active participant in the task force examining Guam's ground water resource water quality management.

J-005-02d: Volume 6-Section 2.2.3.2, DoD assumes GWA can keep all water storage the tanks filled. This is incorrect as GWA maintain approximately 15% of its water storage with this storage reaching as high as 30% of the available storage capacity during minimum water demand periods. This situation exists because of hydraulic issues within the distribution system, pressure balanced with production capacity.

Conservation as a Water Resource Strategy

Recommendation 33: Conservation is a viable method to increase the supply of water. Supply could be considerably enhanced were DoD to support a \$2M program for a civilian conservation program to replace shower heads and subsidize low flow toilet retrofits.

Water Distribution

olume 7-2.3.4 Potable Water

Volume 7-2.3.4.2 Projecting Tipping Point(s) and Action Point(s)

olume 7-2.3.4.3 Potential Impacts and Mitigation

Mitigation Alternatives

Volume 6-Section 3.2.3 describes mitigation measures for the eventuality that GWA's water supply cannot keep up with the off-base growth caused by the build-up. This is a likely scenario since the DEIS does not identify viable funding sources to support GWA expand to meet the demand.

The mitigation measure defined is for GWA to purchase more water from DoD increasing GWA's losses associated with selling over priced water supplied by the Navy to our customers whose rates are set by the PLIC. There is no proactive effort described on DoD's part to mitigate the situation, and the DEIS provides numerous potential obstacles to this. The obstacles described are not alleviated by any offsets, alternatives or mitigations. Obstacles include a requirement for GWA to pay and contract for connections to the DoD system, however, no funding sources are identified. Such connections may not directly support a contractor's development and therefore it may not be possible for GWA to require contractors to pay for such work.

Should there be a water shortage due to work supporting the military projects, GWA would be need to place a moratorium on new connections to the water system until additional source could be developed since GWA's governing rules require that service limits must be observed. This would have a significant impact on the timing of the build-up work and on supporting economic development

Volume 7-Section 2.3.4 further discusses mitigation measures, including those it describes as "beyond DoD control" such as accelerated off-base well construction and leak detection, leak repair and line replacement. However, DoD could assist with coordination and funding efforts. This means that these measures are clearly not beyond DoD control. DoD could certainly import water or set up small desalinization plants to assist with the shortages, so these measures are certainly within their purview and capacity for mitigation or management.

federal agency on a multi-agency group charged with identify Federal programs and funding sources to make the necessary repairs and upgrades to Guam's utility infrastructure systems. Concurrently, DoD, EPA Region IX, GEPA, GWA and the CCU are working together to identify and integrate solutions for off-base water and wastewater needs which meet environment requirements, provide reliable and uninterruptable service, and are affordable for all users.

Even with an infusion of federal funds to fix the existing problems with the GWA water and wastewater infrastructure, if there is no funding to keep the systems operated properly, maintained, and upgraded, the system will be unsustainable. This has even been acknowledged by EPA Region IX in its CIP assessment report. Both GWA and EPA state that the people of Guam should not have to carry the financial burden of supporting the military buildure. It is hard to argue with this position.

supporting the military buildup. It is hard to argue with this position. However, what is not said is that the people of Guam should carry the burden of sustaining compliant water and wastewater systems required to ensure their health and well being. GWA's Water Resource Management Plan (WRMP) which was developed to achieve compliance with an EPA stipulated order, identifies projects required to correct \$200 Mil in infrastructure deficiencies that existed in the water and wastewater systems at the time the report was prepared. This estimate has increased after the preparation of the CIP. Very few of the deficiencies have been addressed to-date because GWA does not have the financial resources to address these issues. The Consolidated Commission on Utilities (CCU) and GWA continually push for a single water system on Guam. They feel that without the capital that would come from including DoD into a single island-wide water system and infusing the significant capital that would come with a large, paying customer, they are unlikely to ever have sufficient capital to sustain a compliant water system. The reality is that even with DoD as a customer they will not have sufficient capital to sustain their water system without raising the water rates. The ability to sustain the water and wastewater systems will be a topic of discussions with GWA, CCU and EPA in early March 2010. Without a

Page 16 of 21.

J-005-0211 he methodology discussed in the above referenced sections does not adequately address the most effective means of providing reliable water delivery for both military (off base family) needs as well as those of the civilian residents of the island of Guam. Inadequate attention has been given to the robustness, reliability and redundancy that would result from integrating all water systems on the island into a single functional utility.

A single system would fully share and properly manage the water sources available in this limited environment. Further it would take advantage of the ability to manage distribution without having to utilize distant sources when adequate supply are already available wherever needed.

Recommendation 34: The EIS needs to include proactive measures on the part of DoD to address off-base water shortages. Include procedures, funding sources and methods of addressing obstacles such as advance planning to replace DoD water lines in aged, poor condition.

Recommendation 35: The potable water distribution system will only achieve the needed, economy, reliability, robustness and redundancy that is desired by all water users when it is operated as a single system. Planning for this needs to be included in mitigation objectives.

Table ES-3. Summary of Parcels for Each Main Cantonment Alternative, Executive Summary Page ES-10 cites areas within the Mangilao sub-basin that are proposed for *eminent domain* acquisition for military use. Some of these locations also contain GWA water production resources (wells). Provision for protection of these GWA resources must be made.

Recommendation 36: Planning to protect all existing GWA infrastructure must be included in the EIS.

II. C. Wastewater

Wastewater Flows

Volume 6-Section 2.3.3 defines the projected wastewater flows from transient personnel and off-base civilian workers as 35 gpcd. The reference for this data is UFC 3-240-02N. Section 3.3.2.2 of this UFC states that 35 gpcd is to be used for "non-resident populations." "Non-resident" includes

- a) Non-resident military, calculated by subtracting the resident military from the total military strength
- b) Civilian personnel under Civil Service or non-appropriated funds (NAF)
- c) Personnel from other services, foreign military, or nonmilitary tenant organizations
- d) Contractor personnel (for example, base maintenance and custodial)
- e) Daytime schools
- f) Daytime transients

J-005-022 bwever, in the case of the build-up, the "non-residents" of the base will still be residents of Guam contributing fully to the plant loading, and therefore must be included as "residents." This will significantly modify the loading unless these people were counted elsewhere in the off-base population calculations, but it is not clear that they were.

continuous influx of federal funds to support daily operations, GWA cannot sustain their current systems. Hence the fundamental problem that will not be fixed by a huge infusion of federal funds to correct all of the ills of the GWA water and wastewater systems. GWA's rate base is not sufficient to sustain its system. If the user rates are not increased to a level that will allow GWA to sustain their systems, in a matter of just a few years the systems will be back to a state of total disrepair and require another large infusion of federal money. Guam is unwilling to require its users to pay what is required to sustain their water and wastewater systems at a level that will ensure their safety and well being. So either the rates have to be increased or EPA needs to find a continual source of funds to support routine operation and maintenance of the GWA water and wastewater systems.

J-005-014

Thank you for your comment. The North and Central Guam Land Use Plan (2009) was an important resource when assessing the land use impacts. Volume 2, Chapter 8 describes the planned land uses presented in the North and Central Land Use Plan and assesses whether the proposed action is consistent or compatible with the Plan.

Overall traffic congestion and resulting travel times will increase as organic (non-military) population increases on Guam. The increase in population associated with the military build-up will also add traffic and increase congestion. The DEIS identifies a number of roadway improvement projects for the 2030 planning horizon, that if implemented, will offset the increased congestion attributable to the military at many locations.

The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the U.S. Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means

Page 17 of 21.

J-005-023 olume 9-Appendix K, "Wastewater Supplementary Analysis Letter Report" states that Navy transient ersonnel will be living on ships and not fully contributing to the daily flows. However, they are ounted as Northern District flows, and there are up to 2,000 "transient" Marines identified. This needs be clarified. The impacts of persons on "shore leave" from berthed vessels needs to be included as

> Recommendation 37: Clarify the definition of transient in the context of the DEIS and justify the use of 35 gpcd for civilian base workers or correct it to the typical 120 gpcd for residents.

2. Wastewater Collection

3-005-024 Volume 6-Section 3.1.3 describes the wastewater collection systems on island, including their mitations however, Volume 6-Section 3.2.4 does not describe any collection system impacts. Except r noting that a new gravity sewer will be built from the Marine base to the NDWWTP, there are no apacts defined to any other gravity sewer lines, pump stations or force mains, despite the amount of rowth that will occur off base.

> he Wastewater Utility Study in Volume 9-Appendix K documents only collection system approvements to directly support the bases. Volume 9-Appendix K-Section 7.2 of the study does propose a new sewer interceptor from AAFB to NDWWTP, but does not include any off-base onnections.

Recommendation 38: The EIS must address impacts to the wastewater collection system. Its failure to identify issues and mitigations measures will result in sanitary sewer overflows leading to significant health and environmental problems. The EIS should assume that DoD will build a new collection line from Anderson AFB to the Northern District Treatment plant as discussed in DoD's alternative. DoD may want complete the study of the Route 3 gravity line and include the recommendations of the study. Review impacts and mitigation of those impacts to other areas of the collection system, particularly the already stressed sewer system along Marine Corps Drive (described in Volume 6-3.1.3).

Alternatives 3 and 8

Volume 9-Appendix K, "Wastewater Supplementary Analysis Letter Report" states that for Atternatives 3 and 8 the preferred wastewater treatment option is to pump the additional flows to the DWWTP. However, the referenced Barrigada Utility Study Report is not provided and therefore there s no flow data or other justification for this option presented, nor any mitigation measures for the ricillary impacts of these alternatives (e.g. additional civilian growth along the back road to Anderson support the bases) and impacts to GWA's collection system and Hagatha WWTP.

Recommendation 39: Provide the Barrigada Study and the basis and justification for the option chosen, as well as all potential impacts and mitigation for that option. Provide details for and environmental impacts of a force main from Barrigada to Tanguesson, as well as full discussion of collection system impacts (the map shows the force main discharging to existing gravity system).

for the Department of Defense (DoD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The Department of Defense, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council, which includes the USDOT to seek solutions to island-wide traffic issues.

Guam-wide population impacts are addressed in the socioeconomic chapters of Volumes 2 though 6.

J-005-015

Thank you for your comment.

DoD has already committed funds to conduct the NGLA 3-D model. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aguifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for

J-005-0254.

NDWWTP Upgrades

folume 9-Appendix K's population sand chart shows a peak construction flow above the maximum apacity of the NDWWTP. The DEIS states that this will be addressed by chemical treatment. Themical treatment is a highly variable process dependent on dynamic conditions and requires intense valuation in order to succeed. There is nothing in any of the studies or the DEIS to define what rocess or processes might be used or to demonstrate that any chemical process would be effective in neeting the NPDES permit limits at the peak flows.

Volume 6-3.2.4.1 describes the preferred alternative as upgrading the NDWWTP. GWA would concur it principle if the flow volumes can be better defined but Volume 9-Appendix K's utility studies discusses flow proportioned cost apportionment. GWA has not programmed to upgrade this plant to secondary treatment in the 20 year planning horizon and has numerous other CIP needs that will drive bond acquisition and expenditures in the foreseeable future. Moving ND to secondary in the timelines is seussed and asking GWA to pay a flow proportioned percentage of the costs would definitely place a burden on existing ratepayers, and would drive residential sewer fees above USEPA defined affordability levels.

Recommendation 40: Reassess and review cost apportionment and funding sources to ensure that GWA's existing ratepayers are not impacted by the through buildup generated increased costs or deferment of other critical projects to meet buildup schedules. Insure that the defined affordability criteria are met.

3-005-0265

Outfalls

Volume 6-3.2.4.1 states that the ND outfall is adequate to support the buildup, however does not note that the Naval Facilities Engineering Command's Northern District Wastewater Treatment Plant Cunfall Assessment, February 2009 states that the outfall's diffuser is not adequate to support the increased flows. The DEIS does not discuss the need to assess and install a diffuser in order for the outfall to meet anticipated discharge requirements.

Volume 6-13.2.4.1 No explanation is provided for why a dilution factor of 300 is used instead of the 200 for which the outfall was designed.

Volume 6-Section 3,2.5.8 states that "The ocean outfall for the Hagatña WWTP does not have a diffuser installed and is in a heavily populated area of Guam". The Hagatña WWTP has a newly installed ocean outfall with a diffuser system and the effluent discharges in a relatively remote area of the island."

There are numerous factual errors in this statement. The two outfalls were installed at the same time; the Hagâtña outfall went on line one month before the NDWWTP outfall. The Hagâtña outfall does not have an elaborate diffuser because diffusion modeling determined that a it was unnecessary for mixing. The discharge is 270 feet deep. Because the NDWWTP outfall is much shallower (140 feet deep) diffusion is necessary. Although the NDWWTP outfall was designed to include a and a diffuser and one was constructed as a part of the outfall project, it was not installed. Realistic data on military growth generated additional flows; will require a different design from the one that was constructed. Regardless of the outfall used, modeling using accurately projected flows will be required in order to determine the resultant mixing and/or diffusion needs.

the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the co-management of the aquifer and development of a 3-D model.

In October 2009, fully comprehending the importance of protecting the sole source NGLA, DoD initiated an effort with GWA/CCU to co-manage the NGLA. In fact, co-management of the aguifer, and pursuit of a comprehensive 3-D model of the aguifer was a DoD recommendation, not one made by EPA, GWA or GEPA. This effort proposed that GWA and DoD, the two entities that rely on the NGLA as a major source of water would need to work as one to protect this critical resource. The proposal was to cooperatively assess the impacts of proposed developments, use the upcoming USGS study to guide efforts to manage the NGLA, and leverage DoD and GWA resources to cooperatively address potential impacts and propose alternatives to mitigate adverse impacts to the NGLA. Although this initiative to work together cooperatively has been advanced at subsequent meetings that created consensus on the way ahead, both GWA and EPA raised concerns with the DEIS knowing that many of the issues they raised are already being addressed. Additionally, EPA was invited to these meeting, but declined to attend unless DoD funded their participation. It is important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all guestioned UoG-

Page 19 of 21

J-005-026

Recommendations 41: Complete diffusion modeling for any EIS retained alternatives to design the configuration that would be required for a diffuser.

Recommendations 42: Modify the DEIS to correct to use correct information.

Recommendations 43: Revamp and reconsider the options for discharging to Hagatīn WWTP based upon the fact that impacts at either outfall would be the same.

3-005-0276

301(h) waivers

several cases throughout the DEIS, including Volume 6-Section 3.1.3, DoD notes that EPA has bried GWA's request for continued 301(h) waivers of secondary treatment for the Northern District and Agana Wastewater Treatment Plants. While correct, the DEIS fails to note that GWA has appealed is decision and EPA's Environmental Review Board has yet to issue a decision on the appeal.

Even if ultimately GWA and EPA agree to move to secondary treatment, EPA has concurred that a long time line balance with affordability factors and other system priorities would be developed. It is the rapid increase of inflows caused by the build-up that require consideration of a potential immediate change to secondary treatment. Therefore the short term cost impacts of secondary treatment must be considered in the DEIS as being required solely by DoD activities.

Recommendation 44: Revise the DEIS to consider GWA's appeal or the waiver denial. Eliminate the erroneous presumption that secondary treatment will be necessary with or without the build-up and address this as a direct DoD caused impact on GWA which must not be allowed to impact GWA's ratepayers. Further, secondary treatment on a flow proportioned basis would drive sewer bills over the EPA utility affordability threshold of 2-3% of household income.

J-005-028

Mitigation alternatives Volume 6-Section 3.2.4.1

This section includes Potential Mitigation Measures "outside of DoD control." GWA disagrees that these measures are outside of DoD control.

Recommendation 45: The DEIS must be modified to address these cases. Example concerns with the proposed mitigation measures follow.

Mitigation 1. "Addition of chemical coagulants":

- There is not validation in the DEIS of the ability of chemical processing to improve performance of wastewater process performance.
- There is no discussion in the DEIS of how the addition of chemical coagulants would impact biosolids production, quantities and disposal costs.
- There is no justification in the DEIS to demonstrate that addition of chemical coagulants can provide the additional 0.8 MGD of treatment capacity as claimed in the DEIS.
- No valid testing, of any kind, that would identify chemical type, quantity, or O&M expenses for manpower and chemicals has never been done to support this concept.

Recommendation 46: This issue would need to be thoroughly assessed by DoD to obtain verifiable data if they choose to consider chemical processing as a viable option.

WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS.

J-005-016

Thank you for your comment. DoD has become an advocate for GWA in finding grants and low cost loans to help fund the required upgrades to their current system. Methods for supplying the short term needs to GWA have been discussed and established. These methods have been added to the final EIS. Success in finding grants and low cost loans to assist GWA has also been added to the final EIS. However, for long term sustainability, GWA and the CCU must come to grips with having a rate structure which would allow GWA sufficient revenue to properly maintain their system.

J-005-017

Thank you for your comment. DoD considered rehabilitation of the cofferdam at the Lost River to serve DoD demands in southern Guam. This option was carried forward as a long-term alternative to supplement water supply to DoD in southern Guam. However, in is acknowledged that this option could potentially result in loss of a potential surface water source to GWA, so DoD coordination and resolution with GWA would be required if it is considered in the future.

J-005-018

Thank you for your comment. The Guam water demand estimates have been updated in the Final EIS to account for 10% unaccounted for water

Page 20 of 21.

J-005-028

The mitigation by chemical addition requires time dependent, site specific evaluation and precise performance definition.

Mitigation 2. "Collection system upgraded and inspected to minimize inflow and infiltration (I&I)":

The DEIS does not provide any data to demonstrate if or how much I&I is a problem and how much capacity would be improved by its control.

The DEIS does not provide any data on what the cost for and impacts of such work would be nor a cost/benefit ratio.

Recommendation 47: This issue requires DoD to execute an I&I survey; the associated system rehabilitation it might indicate and determine its cost and cost/benefit value.

Mitigation 4 Workforce housing in a different watershed; "Gov Guam could manage this through their permitting process"

- This might mitigate flows to the NDWWTP, but in so doing would generate impacts at the other plants that are not defined or considered.
- There would also be impacts (to roads and the environment) from continuous moving of personnel from such residential areas to the northern work areas and back.
- Gov Guam does not control land use beyond zoning and therefore any contractor may choose to house his workers on any appropriately zoned piece of property which they own or lease.
- GWA can specify infrastructure upgrades that may be needed to develop and use a specific piece of property in any given manner, but cannot control area(s) where the desired use might be located.

Recommendation 48: This measure could be within DoD control if it chooses to define where their contractors may house workers as a specification in their contracts.

3-005-029

Aquifer Impacts

Sormwater Runoff

WA has two concerns regarding this issue. The amount of additional impervious surface that is enerated will impact rainfall permeation into the aquifer, reducing aquifer recharge. The DEIS addresses this in Volume 2-Section 4.2.1.1 and includes best management practices for both ensuring that the aquifer is recharged with stormwater runoff, and that the runoff is treated. The DEIS notes in column 2-Section 4.1.1.3 that stormwater runoff is a potential source of pollution to the NGLA and afterences two ongoing studies for more site specific controls.

GWA applauds DoD's stated intention to use Low Impact Development methods and enhancement of recharge. The controls discussed in the DEIS and the plans for moving forward are good as far as they go, but the site specific work for the alternatives must be completed and reviewed for individual projects and for overall impacts of development, impervious surface and stormwater runoff/first flush pollution impacts on the NGLA.

Recommendation 49: The two studies referenced in the DEIS must be completed before an evaluation of the impacts of alternatives can be validated. The studies must address cumulative and site specific impacts to the NGLA from increase impervious surface and stormwater runoff pollutants in more detail than the generic lists of BMP's provided in the DEIS.

from leakage and 40% unaccounted for water from unmetered or undermetered loses. The DoD acknowledges the existing sub-standard conditions of key public infrastructure systems including the potable water system on Guam and the interest to have DoD fund improvements to these systems. The DoD cannot take full responsibility to repair GWA's off base water distribution system to remedy these serious existing conditions because DoD's ability to fund infrastructure improvements is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, the DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam. DoD has identified mitigation measures within DoD control and outside DoD control, including measures that GWA and GovGuam could implement to address the shortfalls provided funding sources could be found. Because it is doubtful that GWA could fund and implement required upgrades in time for the start of the proposed DoD buildup, it is anticipated that public health and safety impacts from increased demand on potable water would be significant until the necessary off-base infrastructure improvements could be completed.

J-005-019

Thank you for your comment. DoD concurs with the recommendation and has endorsed the concept to create an aquifer management team. This will be added to the final EIS if not already in the draft EIS.

J-005-020

Thank you for your comments.

Recommendation 33: As GWA knows, DoD is limited in how it can spend its budget. DoD cannot fund activities that benefit the private sectior, only those directly required for its personnel and facilities. DoD finds it hard to believe that Guam cannot fund water conservation efforts given the poor existing condition of its water system. Reductions in use would

Page 21 of 21.

J-005-029 Septic Systems

The NGLA already has a large number of septic systems located over it. The GWA WRMP identified eptic systems as a significant potential source of pollution to the northern aquifer as Guam's oppulation in the north grows if sewers are not extended. This may require additional treatment ystems to put in place. Alternatively contemporary individual/small group wastewater may need to be use to replace conventional septic systems now in use. The DEIS acknowledges the threat septic ystems pose to the NGLA in Volume 2-Section 4.1.1.3, and in Volume 6 documents GWA's WRMP lans to sewer areas in the north.

he build-up will cause rapid growth in the north, including grown in presently unsewered areas, which will increase the risk of contamination to the aquifer by inadequately managed conventional wastewater ystems. GWA does not presently have resources to extend sewers to unsewered areas at the rate that rowth will proceed according to the DEIS. Nowhere does the DEIS discuss the impacts on the NGLA from this potentially increased amount of poorly managed waste from intense development. The DEIS oes not offer any mitigation for the increased use of such systems in the north.

Recommendations 50: The EIS must address impacts that would be caused by installing additional septic systems and provide mitigation measures to protect the NGLA from the increased potential pollutant loading generated by those systems. This could include providing funding and resources for additional sewering or other more advanced on-site treatment alternatives.

be expected to be the most economical way of putting demand and supply in a better relationship.

Other portions of this comment: DoD has initiated near monthly meetings with GWA that began in October 2009. These meetings have focused efforts on the off-base water demand generated by workforce housing and induced civilian growth resulting from the buildup. Since the release of the DEIS, DoD has moved up its water Private Entity effort to begin in 2011 vice 2013 to allow it to make the water produced from the new wells at AAFB available to support the off-base demand (depending on the rate that the Marines occupy the new base, beginning in 2013 it is expected that 2-6 MGD can be provided to GWA depending on their requirement for the water and after full occupancy of the new base it is projected that 2-4 MGD could continue to be provided). Making water excess to DoD needs available to GWA allows DoD to address GEPA's concern that GWA does not have available yield to support the off-base demand related to the buildup. GWA does not prefer the option to obtain water from DoD and prefers that the resources to produce water be transferred to them. This is a complex issues that involves federal water rights and will likely not be resolved to support GWA desires to control the production assets. However, it may be possible to have a special rate for water obtained from DoD if a means to support this request can be accommodated in the Navy Working Capital Fund construct that NAVFAC MAR must comply with. Understanding that this water will not be available to meet the early workforce related demand expected in 2010-2012, DoD discussed with GWA at its January 2010 meeting an effort to "wring out" excess water from the DoD (NAVFAC MAR) water systems. In line with this effort as part of the creation of the Joint Region on Guam, NFM is in the process of integrating the former Air Force water system into a single DoD water system for the island and is aware that this system has excess capacity. As GWA points out in its comments there are wells owned by DoD that are not currently being produced for various reasons that include: high operating costs.

treatment concerns, well reconditioning requirements, and excess to the needs of current demand. These wells have the potential to produce somewhere between 3-5 MGD of water (Tumon-Maui well can produce 1 MGD, the AF has indicated that their former system has 1.7 MGD excess and wells at Finegayan have excess capacity depending on who is asked .5-1.5 MGD). By identifying all the excess water and working closely with GWA, DoD has the ability to help GWA address the near term requirement to provide water to workforce housing. The water appears to be available now and is already connected to distribution systems that will assist in the effort to move it to the demand location. The effort to make this excess water available to GWA is underway and will become an item to be addressed in an MOU that is being negotiated with GWA. Further providing excess water to GWA will be an issue that would be addressed in a customer service agreement that will likely outline DoD's efforts to work more closely with GWA to optimize the effectiveness and efficiency of the respective water systems. Although GWA does not like to obtain water from DoD, this option allows GWA to avoid the capital improvement costs required to develop water resources and allows them to focus their capital on improvements to their distribution and storage system.

DoD will also support GWA in their quest to obtain grants and/or low cost loans to facilitate system improvements so sorely needed. The above developments have been incorporated into the final EIS.

J-005-021

Thank you for your comment.

Indirect Population Water Demand: The FEIS provides a detailed analysis of water demands from the direct DoD population, and the indirect population (construction workers and induced population). Refer to Volume 6, Chapters 2 and 3. All water demands are accounted for, both on-base and off-base, during the construction phase of the military

relocation and after all construction is completed in 2019. DoD and GWA sources of water are counted in the FEIS when assessing the off-base shortfall that potentially could occur in the peak construction year of 2014. As described in the FEIS, the total indirect off-base demand on the GWA water system (including demand associated with the construction workforce and induced civilian growth) is projected to reach 50.6 MGd in 2014. That same year, the GWA water system would have the capacity to supply 42.4 MGd of potable water. Based on discussions with GWA, they plan to install new wells to meet expected baseline growth, adding an additional supply of 1.3 MGd. This results in a shortfall of water of 6.9 MGd. DoD has agreed to transfer water up to 7.0 MGd to GWA to meet this shortfall. This would include the continued transfer of 4 MGd to GWA under the current memorandum of understanding, 1.7 MGd from existing DoD wells, and the remainder from new DoD wells that would be installed early (new well capacity in 2014 will be 4.7 MDd).

Interconnection: The FEIS describes how water distribution and transmission lines will be constructed to collect water from the new DoD wells and deliver it to a new pumping station that will push the water through a new transmission line to the water storage tank that will be constructed at the new Marine base Guam. There are numerous existing interconnections between the GWA and DoD systems which allow for transfer of water between systems. Planned interconnections and system upgrades to restore the ability to transfer excess water from the Andersen AFB system to the Navy island-wide water system would be needed. Additional interconnections between these two systems will be constructed to provide an enhanced ability for water exchange between the two systems. Where and how these interconnections will be made will be a cooperative effort between DoD and GWA, and will begin as new wells are sited. This will allow for DoD water that is needed to meet GWA shortfalls during the military relocation to be transferred through the DoD distribution system to the closest interconnection to the GWA

system where water it is needed. Maximizing the use of the DoD island-wide water distribution system will minimize the negative impacts that may occur from using the substandard GWA distribution system. Additionally, DoD water storage facilities, including elevated tanks and reservoirs, can be kept at maximum capacity at given times of the year in anticipation of drought conditions and water shortfalls in the GWA system.

Funding: Funding for needed upgrades to the GWA island-wide water system is not identified in the FEIS beyond what has already been identified in the GWA's Capital Improvements Program (CIP), and in a recent EPA Region IX assessment of GWA's CIP and companion conceptual cost estimate for 5-year and 25-year capital and operational needs. The FEIS provides information on GWA and GovGuam's ability to fund upgrades, including information on GovGuam's debit rating and history of funding shortfalls. DoD acknowledges the existing substandard conditions of the GWA water system on Guam and the desire by many for DoD to fund improvements to these systems and services. DoD's ability to fund projects that are not within direct DoD ownership or control is limited by Federal law. However, DoD recognizes the need to identify and integrate solutions for both on-base and off-base utility infrastructure on Guam, and desires to minimize adverse impacts associated with the proposed military relocation program. To this end, DoD is serving as the lead federal agency on a multi-agency group charged with identify Federal programs and funding sources to make the necessary repairs and upgrades to Guam's utility infrastructure systems. Concurrently, DoD, EPA Region IX, GEPA, GWA and the CCU are working together to identify and integrate solutions for off-base water needs which meet environment requirements, provide reliable and uninterruptable service, and are affordable for all users. Even with an infusion of federal funds to fix the existing problems with the GWA water system, if there is no funding to keep the systems operated properly, maintained, and upgraded, the system will be unsustainable. This has even been acknowledged by EPA Region IX in its CIP assessment

report. Both GWA and EPA state that the people of Guam should not have to carry the financial burden of supporting the military buildup. It is hard to argue with this position. However, what is not said is that the people of Guam should carry the burden of sustaining compliant water and wastewater systems required to ensure their health and well being. GWA's Water Resource Management Plan (WRMP) which was developed to achieve compliance with an EPA stipulated order, identifies projects required to correct \$200 Mil in infrastructure deficiencies that existed in the water and wastewater systems at the time the report was prepared. This estimate has increased after the preparation of the CIP. Very few of the deficiencies have been addressed to-date because GWA does not have the financial resources to address these issues. The Consolidated Commission on Utilities (CCU) and GWA continually push for a single water system on Guam. They feel that without the capital that would come from including DoD into a single island-wide water system and infusing the significant capital that would come with a large, paying customer, they are unlikely to ever have sufficient capital to sustain a compliant water system. The reality is that even with DoD as a customer they will not have sufficient capital to sustain their water system without raising the water rates. The ability to sustain the water and wastewater systems will be a topic of discussions with GWA, CCU and EPA in early March 2010. Without a continuous influx of federal funds to support daily operations, GWA cannot sustain their current systems. Hence the fundamental problem that will not be fixed by a huge infusion of federal funds to correct all of the ills of the GWA water and wastewater systems. GWA's rate base is not sufficient to sustain its system. If the user rates are not increased to a level that will allow GWA to sustain their systems, in a matter of just a few years the systems will be back to a state of total disrepair and require another large infusion of federal money. Guam is unwilling to require its users to pay what is required to sustain their water and wastewater systems at a level that will ensure their safety and well being. So either the rates have to be increased or EPA needs to find a continual source of funds to support

routine operation and maintenance of the GWA water and wastewater systems.

Protection of GWA Infrastructure: DoD agrees that GWA infrastructure on DoD property should be protected, and envisions that such matters will be addressed through the continued cooperative efforts between DoD and GWA, and as part of the MOU and customer service agreements currently under development.

J-005-022

Thank you for your comment. The FEIS describes the assumptions used for the direct DoD population, and the indirect population that would result from construction workforce and induced population growth. For direct DoD population, the following assumptions are made: 1- Resident Personnel, 120 gpcd 2- Transient Personnel, 35 gpcd 3 - Civilian Workers living off base but working on base, 35 gpcd 4 - Construction Workers living in off-base camps, 70 gpcd, 5 - Industrial Users, 15,500 gpd/acre

"Resident Personnel" includes personnel who will work on base but may live off base. The generation rate used (120 gpcd) for these residents is the same as is used for off-base civilians.

For indirect populations, a per capita wastewater generation of 120 gpcd was applied to estimate wastewater flow generated by the nonmilitary population, which includes the local Guam population, the construction workforce, and their dependents not living in construction workforce camps, and induced civilian population increases. Domestic wastewater flow is determined by multiplying per capita wastewater generation by the respective population. Industrial wastewater flow is calculated by multiplying the above industrial wastewater generation per unit area by industrial used land acreage.

J-005-023

Thank you for your comment.

Transient personnel identified as Navy and USMC are different. The statement that the Navy transient personnel would all be on ships, and would not initially contribute to demands on public utilities still holds good. However the transient personnel from USMC will be stationed at Finegayan and will have impact on NDWWTP. The transient personnel are the ones who will be spending short time on the base for training or other short time assignments. The civilian base workers are the ones who live on island but work on the base. As per the UFC code, the wastewater flow contribution from civilian workforce is 35 gpcd. The reason for smaller flow is that they contribute only wastewater flows from rest rooms and lunch rooms etc.

J-005-024

Thank you for your comment. The wastewater utility study looked at the impacts to collection system (Sewer along Route 3 and 9) due to improvements at Finegayan and AAFB. The study didn't analyze sewers and pump stations in other areas. The study findings are based on initial discussions with GWA. The study determined that the sewer along route 3 has enough capacity to handle additional DoD flows. A separate study to assess the capacity of Route 3 sewer is underway and details of the study will be included in FEIS. The FEIS provides information on GWA and GovGuam's ability to fund upgrades, including information on GovGuam's debit rating and history of funding shortfalls. DoD acknowledges the existing sub-standard conditions of the GWA wastewater system on Guam and the desire by many for DoD to fund improvements to these systems and services. DoD's ability to fund projects that are not within direct DoD ownership or control is limited by Federal law. However, DoD recognizes the need to identify and integrate solutions for both on-base and off-base utility infrastructure on Guam, and desires to minimize adverse impacts associated with the proposed

military relocation program. To this end, DoD is serving as the lead federal agency on a multi-agency group charged with identify Federal programs and funding sources to make the necessary repairs and upgrades to Guam's utility infrastructure systems. Concurrently, DoD, EPA Region IX, GEPA, GWA and the CCU are working together to identify and integrate solutions for both on-base and off-base wastewater needs which meet environment requirements, provide reliable and uninterruptable service, and are affordable for all users.

J-005-025

Thank you for your comment.

A separate study was performed to identify the process improvement requirements for NDWWTP. The study NDWWTP Evaluation was completed in January 2010 after the DEIS was published. The study findings will be added to FEIS.

Repairs and upgrades to the NDWWTP that are needed to bring the plant into compliance absent the military relocation, and those needed to expand the plant as part of the military relocation, were identified were detailed in a report conducted by DoD and included in the FEIS. This includes repairs and upgrades to the existing primary treatment facilities at the plant to meet both interim flows and maximum flows during the construction phase of the military relocation and long-term secondary treatment plant upgrades that may be needed in the event that the 301(h) secondary waiver denial stands. These upgrades considered the current civilian flows to the plant, DoD and civilian flows to resulting from the military relocation (including construction workforce and induced populations), and future growth on Guam absent the military relocation. The FEIS provides information related to the funding of the NDWWTP upgrades. Funding for NDWWTP: While the Navy will continue to coordinate with GWA and USEPA Region 9 to ensure that GWA implements planned Capital Improvement Program (CIP) projects designed to refurbish the existing primary treatment capability of the NDWWTP and expand it to meet needs associated with the proposed

Marine Corps realignment and associated civilian population growth, the ability of GWA to secure necessary funding for the required CIP projects remains a key concern and potential impediment to the Guam military realignment effort and the return of GWA to full compliance with the requirements of the CWA. In the underlying agreements with the Government of Japan covering the realignment of Marine Corps forces from Okinawa to Japan, the Government of Japan agreed to provide funding to develop facilities and infrastructure on Guam to support the realignment of Marine Corps forces. These agreements further recognize that necessary infrastructure improvements will cover not only improvements on military installations, but also improvements to the civilian infrastructure. Therefore, the U.S. Government, through the Department of Defense (DoD), is currently seeking approximately \$50M in Japanese Fiscal Year 2011 (JFY11) funding from the Government of Japan to cover required CIP projects necessary for refurbishment and expansion of primary treatment capabilities at the NDWWTP. Such funding would allow necessary improvements to be made by the 2013 date noted above. Should DoD fail to secure necessary funding from the Government of Japan, significant environmental impacts would occur as outlined in Volume 6. Further, consistent with Navy's commitment to apply adaptive management noted in Volume 7, failure to secure necessary funding would severely impact construction pace and the ability of Navy to completed required construction to support the Marine Corps realignment. As with refurbishment and expansion of primary treatment, the ability of GWA to secure necessary funding for CIP projects required to achieve secondary treatment at the NDWWTP remains a concern and potential impediment to the Guam military realignment effort and the return of GWA to full compliance with the requirements of the CWA. As with efforts to secure funding for required primary treatment refurbishment and expansion, DoD is working to secure necessary funding, including funding from the Government of Japan. Adverse impacts associated with the failure to secure funding for secondary treatment upgrades, including impacts on the proposed

Marine Corps realignment, would be similar to those noted with failure to secure funding for primary treatment.

J-005-026

Thank you for your comment. The initial flows used in the report Northern District Wastewater Treatment Plant Outfall Assessment, February 2009 have changed since then. The updated study will be included in the FEIS with its analysis of outfall impacts at the NDWWTP. Based on new flows provided by GWA and flow projections, the existing outfall and diffuser has enough capacity. This is discussed in the FEIS. An explanation for using a dilution factor of 300 will be provided in FEIS.

J-005-027

Thank you for your comment. Due to the necessary cutoff date for making revisions to the DEIS, the appeal filed by GWA was not known of at that time. The final EIS will be revised to discuss the appeal of the 301(h) waiver denial.

J-005-028

Thank you for your comment.

Mitigation 1 - A separate study was performed to identify the process improvement requirements for NDWWTP. The study NDWWTP Evaluation was completed in January 2010 after the DEIS was published. The study findings has been added to FEIS. Type of chemical and its affect on solids removal and disposal need to be determined by performing further tests. This will be done during the design of the CEPT system.

Mitigation 2 – The impact due to I&I flows should be addressed by GWA. Our understanding is that GWA is implementing a program to reduce I&I

flows. DoD will follow-up with GWA and provide additional necessary information in FEIS

Mitigation 3 – The intent of this mitigation is that GWA by sewer connection permitting process can direct location of construction force to Central Guam. Hagatna WWTP located in central Guam has enough capacity to handle future flows. DoD in coordination with GWA will locate the construction force at a location that minimizes impacts to environment.

J-005-029

Thank you for your comment. Interim Sustainable Yield Assessment: DoD agrees that protection of the sole source NGLA is imperative. The FEIS discussed the two available estimates of the NGLA that have been published, one by the Northern Guam Lens Study (NGLS) (CDM 1982) and one by Barrett Consulting with John Mink (Barrett 1992). The CDM 1982 study estimated the sustainable yield of the NGLA as 57.5 MDd, and the Barrett 1992 study estimated the sustainable yield as 80.5 MGd. University of Guam (UoG) Water and Environmental Research Institute (WERI) provided an expert technical review for DoD of the two sustainable yield estimates for the NGLA in 2009. The study concluded that the approach and methodology used in Barrett 1992 to estimate the sustainable yield are still valid and are appropriate for initial planning; and the Barrett 1992 sustainable-yield estimates should be used instead of the earlier 1982 sustainable-yield estimates because the later values are based on an additional decade of field data. Additionally, this expert communicated that the additional data that had been gathered from the NGLA since the 1992 study would not likely change the sustainable yield estimate for purposes of the FEIS because the data collected was from sub-basins of the aguifer that are not located where DoD proposes to withdrawal water. Therefore, the FEIS uses the Barrett 1992 sustainable yield estimate of approximately 80 million gallons per day. However, it is important to note that the estimated total average daily demand from the

aquifer for all sources (DoD and non-DoD) during the peak construction year of 2015 is 50.33 MGd, which is below both sustainable yield estimates. Volume 6, Chapter 2, Section 2.2.4.1 and Chapter 3, Section 3.2.3.1 discuss this in detail. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aquifer and development of a 3-D model, and will help guide decision-making during well installation. It is also important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the

adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS. Long-term Comprehensive Aquifer Study: DoD has already committed funds to conduct the NGLA 3-D model. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aquifer and development of a 3-D model. Aquifer Management Plan: In October 2009, fully comprehending the importance of protecting the sole source NGLA, DoD initiated an effort with GWA/CCU to co-manage the NGLA. In fact, co-management of the

aguifer, and pursuit of a comprehensive 3-D model of the aguifer was a DoD recommendation, not one made by EPA, GWA or GEPA. This effort proposed that GWA and DoD, the two entities that rely on the NGLA as a major source of water would need to work as one to protect this critical resource. The proposal was to cooperatively assess the impacts of proposed developments, use the upcoming USGS study to guide efforts to manage the NGLA, and leverage DoD and GWA resources to cooperatively address potential impacts and propose alternatives to mitigate adverse impacts to the NGLA. Although this initiative to work together cooperatively has been advanced at subsequent meetings that created consensus on the way ahead, both GWA and EPA raised concerns with the DEIS knowing that many of the issues they raised are already being addressed. Additionally, EPA was invited to these meeting, but declined to attend unless DoD funded their participation. It is important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's confirmation that the 1991 report "Groundwater" in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS.

Draft Environmental Impact Statement (DEIS) / Overseas Environmental Impact Statement (OEIS) Comment Sheet

NAME: NERISSA BRETANIA UNDERWOOD PHONE NUMBER: 671-475-0457
ORGANIZATION: Guam Department of Education E-MAIL: nbunderwood@gdoe.net

DEPARTMENT: Department of Education

J-006-001 FEFERENCE: Volume 9, page 4-44, Appendix F, Table 4.4-2. Construction Component Assumptions for Public Education Agency Impacts

ISSUE: The projected values presented for the elementary, middle, and high school teacher to student ratios do not align with the existing agreement between the Guam Education Folicy Board (GEPB) and Guam Federation of Teacher (GFT) Agreement.

DISCUSSION: The projected values for teacher to student ratio will provide guidance on the number of teachers that will be needed to meet the projected increase in student population. The assumed values should be based on the maximum number of students for each program and grade level listed in the Collective Bargaining Agreements between the GEPB and the GFT.

RECOMMENDATION: The Collective Bargaining Agreement between the GFT and the GEPB for the Guam Department of Education (GDOE) Faculty and Staff, 5.B.12 <u>Class Size</u> are as follows: (p. 19 – 21, GFT – GEPB Contract)

"There shall be no more than twelve (12) special education students in a class." 5. B.12.a (Elementary Grades)

Program	Maximum Students
Preschool & Kinder -	18
Grades 1-3	24
Multiage	23
Grades 4-5	25
Grades 6-12	28 (except for specific classes or programs

1

Guam and CNMI Military Relocation DEIS/OEIS

J-006-001

Thank you for your comment. As noted in the SIAS, the public service impact methodology was intended to ensure that stated impacts are just those due to the proposed action, not pre-existing problems or deficits. The methodology also took into account existing staff to student ratios instead of any collective bargaining agreements. However, the existence of such deficits for individual agencies is noted where applicable, and the impact analysis will also note the larger picture of deficits and challenges affecting GovGuam overall.

Staffing numbers used in the analysis were derived from surveys and interviews performed in conjunction with the DEIS, and serve as a point-in-time indication of staffing levels. It is acknowledged that staffing levels fluctuate, and it is not possible for this analysis to capture all these fluctuations. It is expected that the Fiscal Impact Assessment, conducted by GovGuam consultants and funded by the Department of Defense Office of Economic Adjustment, will be able to more fully capture recent public service fluctuations.

3-006-002 REFERENCE: Volume 9, page 4-47, Appendix F, Table 4.4-7 Primary and Secondary ducation Teacher Requirements Impacts Summary (Unconstrained)

> SUE: Table 4.4-7 reflects the proposed Primary and Secondary Education Teacher Requirements Impact Summary action's impact on GDOE's staffing for the action's peak ear and steady state. It is anticipated that more than 600 teachers will be needed to meet he significant increase in student population during the peak year and thereafter. Such rowth will significantly compound GDOE's current problems with the recruitment and etention of highly qualified and certificated teachers.

> ISCUSSION: DOE must fill an average of 300 teaching positions each year. This is ttributed to a high turnover of teachers and insufficient number of certified teachers. The Iniversity of Guam graduates approximately 125 educators annually. Approximately 50% of acant positions are filled by retired teachers. These statistics clearly indicate a need to explore other means for addressing the teacher shortage.

> Statistics also reveal that after the peak year, the number of teachers that will be needed will ecrease significantly. Such anticipation will result in GDOE incurring an over-employment f teachers. Thus, what would we do with teachers that were hired to meet the peak year if he student population decreases?

RECOMMENDATION: Among the suggestions presented by educators to address this issue are:

- a. Stretch out the buildup so that a more manageable number of schools and personnel are necessary.
- b. Make Federal Grants available to provide incentives for US trained certificated teachers to move to Guam during the surge as well as reach out to potential mainland applicants.
- Make it easier for teachers from foreign countries to teach on Guam during the surge. They should be on a year to year contract.
- d. Provide funds to UOG to provide stipends and grants to students who are studying to become teachers and administrators.
- e. Provide federal funding to build permanent schools and purchase collateral equip and textbooks to address the permanent increase in school aged kids.
- Provide federal funding to build temporary schools and purchase collateral equip and textbooks to address the temporary increase in school aged kids; investigate the possibility of moving these schools to Micronesia when done, or other uses e.g., turning them over to homeless organizations for programs for the homeless, satellite classrooms for GCC/UOG.

Guam and CNMI Military Relocation DEIS/OEIS

J-006-002

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

Your mitigation recommendations have also been taken under consideration and extended mitigation discussion is available in Volume 7 of the FEIS.

J-006-002

g. The EIS should provide a proposed solution to include either accessing federally funded education facilities that were designed to accommodate the incoming military and collateral personnel or that the federal government create a formula for compensation, for GDOE, for increased student populations

J-006-003

EFERENCE: Volume 9, Appendix F, page 4-57, GPSS Administrative Staffing and GPSS acilities

SSUE: The DEIS addressed the impact of the build-up on teacher supply, however, the eport does not address other personnel needed to provide direct and support instructional ervices.

DISCUSSION: Teachers need support from principals and assistant principals, program dministrators, health and guidance counselors, school aides, support and maintenance staff to effectively achieve learning outcomes. The impact on the delivery of instructional programs can only be determined when all the personnel needs are included. For example, the build-up will result in hiring 600 more teachers, this may require additional employees for payroll and personnel services.

RECOMMENDATION: Include an analysis of all personnel needed to provide direct and support services to students. This should include both school site and central office personnel.

1-006-004REFERENCE: Volume 9, Appendix F, page 87, 5, Buildup b, Pressure on School Systems

SSUE: The military build-up will further create a divisive relationship between DODEA DDESS) and Guam DOE Schools given the comparison between the teaching and learning onditions. It is also anticipated that more schools will be built to meet the increase in DESS student population, which will result in more teacher and support staff needs. How an we minimize or eliminate the underlying tension between the school systems?

DISCUSSION: Upon the establishment of DDESS schools on Guam many teachers from the Guam Department of Education were recruited to fill positions in schools for military dependents. This resulted in GDOE not having adequate certified teachers just before school was scheduled to open. Educators and community leaders are anticipating the same situation will occur when DDESS facilities increase. Moreover as DDESS opens professional development sessions to GDOE teachers and administrators, comparisons in the condition of facilities between both school systems naturally occurs.

3

J-006-003

Thank you for your comment.

It is noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action.

The staffing numbers used in the analysis were derived from surveys and interviews performed in conjunction with the DEIS, and serve as a point-in-time indication of staffing levels. It is acknowledged that staffing levels fluctuate, and it is not possible for this analysis to capture all these fluctuations. It is expected that the Fiscal Impact Assessment, conducted by GovGuam consultants and funded by the Department of Defense Office of Economic Adjustment, will be able to more fully capture recent public service fluctuations, as well as support staffing requirements.

J-006-004

Thank you for your comment. DODEA would recruit teachers primarily through their existing system; that is, teachers in the Okinawa and other locations would have an opportunity to transfer to Guam. If local recruitment does occur, it is an individual's decision to apply for and potentially obtain a position in the DODEA system. This is also true of the anticipated parochial school system that has plans to open new schools on Guam.

J-006-004

RECOMMENDATION: Charter schools, comprised of both public and military dependent tudents can be established to integrate both populations. The schools can be federally and locally funded.

3-006-005 REFERENCE: Volume 9, Socioeconomic Impact Assessment Study Executive Summary, ii, Table ES-4 Summary of Public Agency Service Population.

> SUE: GDOE statistics for 2014 only reflect the elementary grades. If all grade levels are to be summed as noted in Table 4.4-3, the total should be 7,937 instead of 4,018. The constrained projection for GPSS should be 2, 796 instead of 2,021.

DISCUSSION: The credibility of this study can be easily undermined by statistical errors. Authors should pay close attention to the accuracy of data, which will be used for planning urposes.

RECOMMENDATION: Have a third party, not involved with the write-up, review the tables and write up for consistency and accuracy.

Guam and CNMI Military Relocation DEIS/OEIS

J-006-005

Thank you for your comment. Clerical edits have been made as appropriate.

Draft Environmental Impact Statement (DEIS) / Overseas Environmental Impact Statement (OEIS) Comment Sheet

NAME: <u>IKE C. SANTOS</u>	PHONE NUMBER: 300-1257							
ORGANIZATION: Guam Department of Education								
E-MAIL: <u>icsantos@gdoe.net</u>								
DEPARTMENT: Guam Department of Educati	on							

J-007-001REFERENCE:

Page 4-57 <u>GPSS Facilities</u> (Socioeconomic Impact Assessment Study) "Guam Public Law 28-009 "Limitations on Capacity Levels for the Construction of New Public Schools"

IBSUE:

As outlined in Guam Public Law 29-106 (amended on August 27, 2008) the student Enrollment Capacity should be reflected.

DISCUSSION:

The feasibility of the Military Build-up would result in a significant increase in student enrollment which may have an adverse effect on the current educational system that would necessitate for additional teachers, support staff, facilities, equipment, instructional and non-instructional supplies and materials.

The Question is: Who will fund the need to increase the number of classrooms, school facilities, equipment, supplies and materials, teachers and other school personnel?

Guam and CNMI Military Relocation DEIS/OEIS

J-007-001

Thank you for your comment. The Final EIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-007-001 RECOMMENDATION:

Amend the Impact Aid grant (CFDA No. 84.041) to increase the Federal Funds made available to Guam as to accommodate the increase in student enrollment and to allow for public school students whose parents that are directly and indirectly involved in the Military Build-up be included in the Impact Aid calculations. This additional increase in Federal funding will help support additional teachers and support staff, provide instructional and non-instructional supplies and materials, help upgrade the existing educational infrastructure and supra-structure as a result of the Military Build-up increase of student enrollment.

Draft Environmental Impact Statement (DEIS) / Overseas Environmental Impact Statement (OEIS) Comment Sheet

	NAME: IKE C. SANTOS	PHONE NUMBER: 300-1257
	ORGANIZATION: Guam D	epartment of Education E-
	MAIL: icsantos@gdoe.net	
	DEPARTMENT: Guam Dep	partment of Education
	REFERENCE:	
J-007-002	Page 4-45 <u>Estimation of Effe</u>	ects: Effects on GPSS Student Populations (ref: Table
		ation Impacts Summary (Unconstrained))
	ISSUE:	
		ed anticipated Peak Year Student Population, the
		he number of school facilities needed to accommodate
	the increase of student popu	lation as a result of the military build-up.
	1	
	DISCUSSION:	
		ing student enrollment increase by the Peak Year of
	2014:	4.040
	GDOE Elementary:	4,018
	GDOE Middle:	1,685
	GDOE High:	2,234
	Bosed on D.L. 20 106 Studen	nt Envellerent Considerational Action 14
	following:	nt Enrollment Capacity should not exceed the
	Elementary:	770
	Middle:	
	High:	1,120 1,700
	i myn:	1.700

Guam and CNMI Military Relocation DEIS/OEIS

NIANATE AVETE OF GLAVEROS

J-007-002

Thank you for your comment.

The EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action.

The numbers used in the analysis were derived from surveys and interviews performed in conjunction with the DEIS, and serve as a point-in-time indication of staffing level requirements, while providing additional information on facility impacts. It is acknowledged that it is not possible for this analysis to capture all impacts in detail. It is expected that the Fiscal Impact Assessment, conducted by GovGuam consultants and funded by the Department of Defense Office of Economic Adjustment, will be able to more fully capture recent public service fluctuations, as well as facility requirements and the fiscal impact of these requirements.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

j-007-002 Therefore, the following additional school facilities must be built to accommodate increase in student enrollment:

Elementary: 5 new schools
Middle: 2 new schools
High: 2 new schools

RECOMMENDATION:

Funding and feasible land should be made available to build and operate the 9 new schools to accommodate the anticipated student enrollment. Anticipated construction and operational costs (excluding land):

Type of School	Construction Cost per school	Collateral Equipment Cost	Instructional/Operat ional Supplies & Materials	Library Book Cost
Elementary	\$7,266,243.00	\$434,135.00	\$100,000.00	\$117,579.00
Middle	\$12,911,109.00	\$913,864.00	\$400,000.00	\$166,788.00
High	\$26,796,405.00	\$1,709,337.00	\$700,000.00	\$373,669.00
TOTAL COST	\$46,973,757.00	\$3,057,336.00	\$1,200,000.00	\$658,036.00

	Books & nsumables	Ch	ild Nutrition Cost	L	Itility Cost	Total Cost		
\$	137,500.00	\$	302,940.00	\$	344,500.00	\$	8,702,897.00	
\$	210,000.00	\$	257,040.00	\$	245,900.00	\$	15,104,701.00	
\$	360,000.00	\$	293,760.00	\$	245,900.00	\$	30,479,071.00	
S	707,500.00	S	853,740.00	\$	836,300.00	\$	54,286,669.00	

Type of School	Co	ost p/ school	Number of Schools Projected	Total Cost		
Elementary	\$	8,702,897.00	5	\$	43,514,485.00	
Middle	\$	15,104,701.00	2	\$	30,209,402.00	
High	\$	30,479,071.00	2	\$	60,958,142.00	
TOTAL	\$	54,286,669.00	9	\$	134,682,029.00	

Fbotnote: Estimates based on the 2007 costs of Liguan & Adacao Elementary, Adacao Middle and Okkodu High Schools



Felix P. Camacho

Michael W. Cruz, MD

Department of Parks, Recreation and Historic Preservation

Government of Guam
490 Chalan Palasyo
Agana Heights, Guam 96910
Director's Office: (671) 475-6289
Facsimile: (671) 477-0997
Parks Division: (671) 475-6289
Guam Historic Preservation Office: (671) 475-6295

Facsimile: (671) 477-2822 Email: joe.duenas@dpr.guam.gov



Joseph W. Dueñas

Jose M. Quinata, Jr.

February 16, 2010

JGPO C/O NAVFAC Pacific 258 Makalapa Drive Suite 100 Pearl Harbor, HI 96860-3134 Attention: GMPO

Hafu Adai from Guam! Attached you will find the official comment submission from the Guam Department of Parks and Recreation, and Historic Preservation Office on the Draft Environmental Impact Statement (DEIS) on the, "GUAM AND CNMIC RELOCATION."

Should you have any concerns, please feel free to contact our office.

Con

DIRECTOR

Director, Guam Buildup Office (Paul Shintaku) DPR Deputy Director/ Chief Planner (Jose Quinata) Guam State historic Preservation Officer (Lynda Aguon)

Xx:

Director's Chrono

OSEPH W. DUENAS

DPR DEIS/OEIS COMMENTS 2/16/2010

	Δ	E	3 T	C	D	E	F	G
	Volume /		Page Paragr			Comments	Question	
		001 Vol. 2, C				DEIS estimates for off-island/transient construction workers range from a low of approximately 3,200 to a high of approximately 18,200 per year. The potential for the loss of life of such workers (natural, work related or other causes) will directly impact DPK's public commetery operations and reduce the life span of DPK's public capacity accordingly (3 yrs. to capacity @125 ground burials per yr.).	Recommended that contractual provisions for off- island/fransient workers include transport and associated cost for return to point of origin in case of death as well as joint local and DoD effort to expand existing Veter	
	98-	002 Vol. 2, C	1ap. 2	35	2.7.1.10	Recreation for workers will be provided at housing operations as well as transport to "public" recreational sites,	DPR recommends that construction workers be afforted access to DoD facilities and recreational resources as a measure to lessen impact on existing public recreational resources and amenities.	
4	-	Val. 2, C	nap. 9	5	9.1.3.2	Admiral Nimitz Golf Course listed as "restricted to installation personnel and guests."	This site may currently be open to the general public. Discount provided for DoD personnel. Target Golf no longer in existence. Add DPR Dededo	
5		Vol. 2, 0	nap. 9	6	9.1-3	Updated information.	Skate Park, DPR Guam Sports Complex, Tepungan Beach Park (Fish Eye, Phi), Tanguisson Beach Park, Dededo Central Park. Change "Adelup" to "Ricardo J. Bordalto Complex".	
6		Vol. 2,	Chap. 9	13	9.1-7	Updated information.	Historical/Cultural Attractions; Add Ft. Soledad, Umatac.	
7		Vol. 2,	Chap. 9	16	9.2.2.1	Operation: DES discussion on impacts of population increase and mitigation confined to "DoD facilities". No discussion or analysis con impacts of population petentially aseking "public" recreational resources as an alternative to overcrowding of resources on DeD statistiation. DES estimates 75% of non-DoD personnels to reside off-base, which inevitably will result in overcrowding a recollerated disterioration, conflict, etc. of estating public recreational resources.	DPR recommends to expand proposed mitigation plan for COC facilities to be located outside of DoD installation for shared usage for both DoD and civilian personnel. Increase in COL facilities does not ensure that DoD personnel will not utilize public recreational resources and therefore does not mitigate the overall impact of the proposed alternative.	
-		Vol. 2,	Chap. 9	16	9.2.2.1 Cont.	The loss of recreational resources such as the Guam Raceway Park, Marbo Cawe, Pagat Trails, etc., would significantly impact public recreational resources, as this would directly impact the increase in usage of the available and remaining public recreational resources.	Additionally, the loss of the Guam Raceway Park may result in increased libegal street rating, racing related accidents, destinated, unlike the Historical/Cultural resources site, the raceway park activity can be addressed by providing an alternate site.	
9	T	Vol. 2,	Chap. 9	19	9.2.2.2	Impact of proposed construction would restrict access to recreational resource. Indication that comparable resources would be available in adjoining properties.	No mention of restriction to local residents or DoD personnel. Recommend that access to replacement (adjoining) site be open to general public.	



J-008-001

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process, and are meant to involve the people of Guam and governmental agencies in the process. Comments received from the public, such as yours, allow DoD to make changes to the EIS before the document is finalized. This information becomes part of the Final EIS and is evaluated when DoD issues a Record of Decision at the end of the NEPA process. The Final EIS has provided greater discussion the schedule of the proposed action and Guam's readiness to support this proposed action.

Your recommended mitigation measure(s) have been taken under consideration. Because a number of mitigations were recommended during the DEIS comment period, the FEIS includes expanded discussions on mitigation measures.

J-008-002

Thank you for your comment. DoD understands and recognizes the significance of cultural and recreational sites located on DoD property in Guam. Restricting access to certain DoD areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to DoD lands that contain cultural sites consistent with safety and operational requirements. Access will be granted at approved times such as when the lands are not being used for military training. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

DPR DEIS/OEIS COMMENTS 2/16/2010

	Α		В	С	D	E	F	G
J=00	98-	Vol. 2,	Chap. 9		9.2.2.2 Cont.	The MCSS proposes to construct a variety of GOL facilities almed at alliviating the demand, detentiating, etc., of recreational resources on non-Dob lands. The addition of GOL facilities on Dob lands which are only available to Dob personnel and guests does not ensure that the use of non-Dob recreational resources will be utilized and thus impacted.	Although the addition of COL facilities will provide atternative recreational edivides for DOD personnel and guests, it will not provide an alternative to local beaches and patrick which are filmed in number in Central Guam. These recreational resources on non-DOI lands (seepth parks) will confirm to be a popular recreational resources for all persons residing and visiting Guam. As a neut, the proposed alternative will, directly and significantly impact recreational resources on non-DOI lands. Historically, the local government, private business sector, as well as the DOI commands have encouraged and embraced interation between the local population and our military neighbors.	
11		Vol. 2,	Chap. 9		9.2.2.2 Cont.	Construction in the Apra Histor area will directly impact local recreational resources as the displacement of recreational recourses recreational recourses are displacement of recreational resources and users in the subject area will naturally divert to other elites such as the East Agains Bay and other behash part sites. This will not only accelerate the impact to marrine resources, but present significant conflict between users (commercial operators and general public) in areas regulated by Quarrie's Recreational Water the Aknagement Pina reast sub or the limited sites (accessible and safe locations) available for popular water activities (mechanized and non-mechanized water crafts, diving, etc.).		



DFR DEIS/OEIS COMMENTS 2/16/2010

008	002	В	C	D	Ε Ε	F	G
12		Chap. 9	2	9.2.2.1	The transient berthing of an alteralit carrier would significantly impede access to non-Dod recreational resources and opportunities as the temperary surge in population and resulting usage of recreational resources (beaches and parks) by carrier personnel would result in overcrowding and thus limiting and possible restricting access due to capacity constraints; substantial conflict between recreational users is anticipated due to the limited—developed resources (i.e., Asan, Pili, Tumon and Hagattas Beachs and Parks) for similar activities as well as compatible water uses (swimmers may infring on windsurfing lane due to overcrowding, etc.); and would cause substantial deterioration of non-Dot recreational resources as a result of accelerated usage. The DEBs mitigative measures provide for the shutting of carrier personnel to non-Dot precreational resources to limited the impacts (no impact) to Dot resources.	funding for the maintenance, upkeep and operation of non-DoD recreational resources impacted by the transient berthing as well as the deployment of DoD and or DoD centract personnel to augment the local	,
13	Vol. 5,	Chap. 9	2	9.2.2.1	Access to recreational resources located in NCTS Finegayon currently restricted to Dio Personne, guest, and civilian workers and their dependants. Recreational options available to these personnel include other bases as well as resources located on non-DoD lands.	It is recommended that access to the Finegayers size, as well as to cher urique histoficial and califural resource sites located on DoI lands, be permitted to some degree (scheduled, permitted, excorted, etc.). This option would provide recreational options for non- DoI personnel and sa a result, essee congestion at other resources site, both non-DoI and DoI lands.	
14	Vol. 6,	Chap. 11	9	11.2.6.1	Park lands identified for potential taking as a result of resolvey construction along Rt.1 include potons of Dededo Buffer Strip (Dededo Central Park), Chinese Park and Paseo de Susana.	DPR recommends that replacement park lands within the subject locations be identified and developed prior to the taking. In addition, it is recommended that the replacement park sites be equal to or greater than the lands taking, resulting in no net loss of public recreational resources.	



J-008-003

Thank you for your comment. The summary lists of BMPs and mitigation measures in Volume 7 were updated based on comments received during the public comment period and will continue to be updated after the Final EIS is published, during agency consultation and construction permit application processes. BMPs and mitigation measures listed in the Record of Decision and attached as conditions to a permit will be implemented. Restrictions to certain areas are required to maintain public safety. DoD acknowledges that maintaining access to important cultural and recreational sites is important. Although plans concerning access to sites potentially impacted by the proposed action have not been developed, it is not the intent of DoD to totally restrict access. DoD looks forward to working with stakeholders in developing plans for access that balance operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

Impact to Paseo De Susana Park would not require acquisition of park land. There may be restrictions to the park during construction of the Agana #1 bridge replacement. The park property, acquired from Chinese Park, would include a triangular sliver on the southeast corner of the park. Currently this portion of the park is on a steep grade and acquisition would not diminish the usable area of the park. The park property required from Buffer Strip Park only includes a narrow strip along Route 1.

In January of 2010, a meeting between DPR, FHWA and DPW was held to discuss the Section 4(f) properties (parks). At this meeting, the impacts to the Chinese Park, Buffer Strip Park and Paseo De Susana Park were described as mentioned above. The representatives from DPR agreed that the impacts to the parks would be minimal.

DPR DEIS/OEIS COMMENTS 2/16/2010

1.6	08^	002	В	C	D	E	F	G
	15		Chap.	24	3.3.8.1	personnel, impacts to local recreational resources would be allowated, beniffling Guarn residents and off-sitent visitors as well. All proposed QOL facilities to mitigate the demand on recreational resources by the bulk-ou-par planned for DoD facilities and restricted to use by military personnel, guests, civilian workner and guests. Militigation has been confined to reducing the impact to recreational resources located on DoD lands. No militigation has been proposed to address the impacts.	No restcicion is currently placed on or in anticipated to be placed on the population of military, civilian, and dispendant personnel associated with the the Manine Corps relocation to Guam, and thus the use of local, non-DoD recreational resources is highly likely. It is strongly recommended that the DEIS expand as scope of study to include impacts to non-DoD recreational resources by military, dependently, and personnel. Specifically, that the DEIS include the probability of using a (survey), historical data, etc.) by DoD personnel or non-DoD, because as the seasibility of shared COL facilities becauted outside of restricted DoD facilities (i.e., Admiral Nimitz Golf Course) as a alternative to the proposed miguition.	
- 11	16							



Comments on the DEIS/OEIS - Cultural Resources 2/16/2010

GUAM DEPARTMENT OF PARKS AND RECREATION

J -	008- 1	004	General statement			Confined to the University of Standards and Guidelines for Federal Agency Historic Preservation Programs applied / referred to / considered in the development of pertinent Cultural Resources' sections and chapters of the DEIS? Pursuant Section 110 of the National	Refer to law and indicate in FEIS that these NHPA sections were considered and where appropriate, state if plans, etc. were
						Historic Preservation Act (16 U.S.C. 470)? Section 111? Section 112? Througout the DEIS determinations were made that historic proporties are eligible for the	developed. Indicate in the FEIS what is the future
	2		Gener	al statement		National Register. What happens next to these eligible properties? Will these sites be nominated?	prospect for these historic sites/properties/cultural resources?
	3	General statement				The DEIS fails to recognize historic properties listed on the Guam Register of Historic Places. This Register is just as important as the (U.S.) National Register. Sites listed on the Guam Register are potentially eligible for listing on the National Register.	Acknowledge State/Local government preservation laws and indicate it on the FEIS.
	4	l, et. al.	All Glossary and Acronynm Chapters	All related pages		Lacking pertinent definitions, and acronyms relative "cultural resources," NHPA, GRHP, among others. Cultural resources to the term cultural properties, all other terms pertaining to "historic properties". The use of the term "cultural resources" in the DEIS is not used nor contained in the NHPA, nor in 36 CFR 800 - regulations implementing Section 106 of the NHPA. Consider the term "culture" as used in the National Register programs "it is understood to mean the traditions, beliefs, practices, lifeways, arts, crafts, and social institutions of any community, be it an Indian tribe, a local ethnic group, or the people of the nation as a whole." It is misleading to define "cultural resources" as OIAV "archaeological, architectural, and traditional cultural properties" - and at the same time use historic sites, elsewhere in the DEIS to mean cultural resources!? Do not confuse the reader by interchanging the terms. Ashere to one definition, one term.	Include: ARPA, NHPA, NRHP, SHPO, ACHP, Section 106, NNL, adverse effects, area of potential effect, Guam Register of Historic Places, and other pertinent definitions where appropriate in glossary and acronym chapters. > Re-define cultural resources in all the glossaries and include "Historic Property" definition as found in 36 CFR 800.16(I)(I); OR use the legal definition and remain consistent throughout the DEIS, i.e., do not interchange terms - achere to one term. > Define the EIS "chosen" term in all Volume glossaries. > Define in glossaries. NHPA, and NNL - National Natural Landmarks.



Page 1 of

J-008-004

Thank you for your comment. The Secretary of the Interior's Standards and Guidelines were used in the performance of all studies conducted for the EIS. Professionals meeting these criteria and have substantial expertise in the archaeology of the Mariana Islands conducted surveys of over 5,000 acres on Guam. In accordance with federal law, resources that are eligible for listing on the National Register of Historic Places will be treated the same as resources listed. The DEIS (Section 12.1) discusses all historic properties that are listed on the Guam Register of Historic Places. Chapter 12 also includes definitions of these terms (Sections 12.1.1 and 12.2.1) as well as discussions of various cultural resources laws.

Comments on the DEIS/OEIS - Cultural Resources 2/16/2010

GUAM DEPARTMENT OF PARKS AND RECREATION

	iligii!	Wil.	Chapter	/ itc	1 m; 161.	Comments on Total Carl Resources Symposis Property (7, 2)	Resommentation
j.	• 008	- 005	9	9-23	9.2.2.6	On recreational use. Marines "could provide mainteneance up to Hilesan that contain significant natural, cutiural, scenic, and recreational resources." Is there a plan on how the site is to be maintained? Why the Marines? Why not contract an entity to maintain and manage all on-base historic properties - as provided for in Section 111(e) (16 U.S.C. 470h-3(c). Hilliam is listed on the Guam Register of Historic Piaces, and is eligible for the National Register. GDPR (Gum SHP Office) has been in contact with the Navy since 1999 to nominate Hilliam to the National Register. Navy ignored and discounted the recommendation. Nomination is a responsibility under NHPA Section 110 (a)(2)(A).	Develop and provide maintenance of historic sites plan to DPR for review and comments. Nominate Hilaan to the National Register.
	6	2	12	12-1 12-19		Approach to Analysis / Methodology: State specifically what the methodology is. Was the National Register criteria for evaluation used? the SOI S&G? - of which there are several? What is the basis for determining that a "site" is considered a "traditional cultural property?" Who determined and designated a site as traditional cultural property? Indicate specific federal law.	Identify the relevant historic context(s) on which the historic property is associated with. State references used pertinent to NHPA, i.e., NR Bulletins; 36 CFR 800 - Protection of Historic Properties, etc.
	7	2	12	2-37/12- 19	12.1.3.3	Non-DOD Land / Route 15 Valley and Escarpment: We do not support locating the firing range in this area, most especially since it will be directly above the Pagat Site - a Settlement Complex listed since 1974 on the Guarn and National registers. The lease of this property to construct the firing range and its other facilities will result in facing the access to the site and lessening its accessibility to less than 100 days a year. The DEIS did not adequately assess the adverse effects of the undertaking pursuant 36 CFR 800.5, nor the area of potential effect. Applying the orietria of adverse effects, the site will be affected in that the action will diminish the integrity of the property's setting, feeling, and association; it will change the character of the propertys use or of physical features within the property's setting that contribute to its historic significance, and it will introduce visual, atmospheric and audible elements that will diminish the integrity of the property's significant historic features. Any intrusion, obstacle, or hindrance on the site's accessibility will adversely impact the public's right to visit and appreciate its beauty and tranquility, but most importantly the site's connection to the Channorro indigenous past dating back 4,000 years ago. This site is significant for its research value, and as stated in a recent article, is considered "a sacred burial ground." We stronly recommend to evaluate and assess other alternatives, including the prospect of relocating it to our neighbor island, Tinian.	> Include the Chamorro Land Trust Commission as a consulting party to the programmatic agreement. The CLTC has jurisdiction over land areas that will be impacted, and who is ENTITLED to participate as consulting party under 36 CFR 800.2(c)(3). > We stronly recommend to evaluate and assess other alternatives, including the prospect of relocating it to our neighbor island, Timian. > Comply with NHPA Section 112(b)(3). > Consider exchange of federal historic property pursuant NHPA Section 111.



J-008-005

Thank you for your comment. The DoD has a vigorous program of managing and protecting historic properties on its lands on Guam. Properties managed by the DoD comply with all federal laws relating to cultural resources. Each installation has an Integrated Cultural Resources Management Plan that stipulates the standard operating procedures for evaluating resources according to National Register of Historic Places criteria and long term management of these resources. Because these resources fall under federal jurisdiction and access to many of these areas is limited, they are, in general, protected from vandalism, collecting, or other forms of disturbance that could occur when areas are completely open to the public. If historic properties would be affected by future projects, all installations would comply with the National Historic Preservation Act and go through the Section 106 process to avoid, minimize or mitigate adverse effects to these resources.

The DoD conducted a number of studies, including a traditional cultural property (TCP) study on Guam and Tinian. The studies on traditional cultural properties were conducted by individuals from the Micronesian Area Research Center at the University of Guam. They interviewed people on Guam who were knowledgeable about the traditional uses of plants and animals on the island. The TCP study used information from oral histories, archival and documentary research, archaeological investigations, and natural resource inventories. Seventeen TCPs were identified that included landforms, historical sites, archaeological sites with latte stones, and gathering places. DoD will continue to work very closely with the Guam SHPO and other interested parties to mitigate any adverse effects to these resources.

Marines stationed on Guam require annual qualification or requalification on individual and crew –served weapons to maintain their combat readiness. Every Marine on Guam will require this type of training. This

Comments on the DEIS/OEIS - Cultural Resources 2/16/2010

GUAM DEPARTMENT OF PARKS AND RECREATION

10.35	idni	Vol	¢	limpiter	4648	Trince 1951.	Somment on PCDFTDEAD (IISOURGES) and Historic Properties	Recommendation
1-	8	- 00	5	2	2-42 / 2-44	2.3-4	Maneuver Training Area: NMS3 - maneuver area would required an access road At Mount Lamlam: an access (paved) road will be constructed. The hiking trail entrance may be fenced to keep out vehicles but still will be accessible from the sides. Historical records indicate that Mt. Lamlam is owned by Govt. of Guam; and from conversations with 14P staff, the peak is owned by the DoD. Mount Lamlam is one of Garam's four National Natural Landmark. It is listed on the National Registry of Natural Landmarks. It is very disturbing that Mount Lamlam is not specifically identified as part of the traiting at the Naval Munitions Site. The APE for this undertaking extends to Mt. Humuyong Manglo, where parishioners, and residents from throughout Guam hike up the trail during Good Friday. For whatever reason DEIS writers and planners excluded this important fact of Mt. Lamlam it is imperative that the area be further evaluated if the property itself is a "traditional cultural property" which may be eligible for inclusion in the National Register of Historic Piaces under one of the "Criteria Considerations". FACT Mt. Lamlam is the highest peak on earth when it is measured from the bottom of the sea to its peak!	> Research and evaluate the significance and importance of Mt. Lamlam. > Research ownership!
	9	2					Cumulative Impact: Tanguisson, Hilaan, Hapute: If the decision is made to allow the construction of housing facilities for DOD personnel at Finegayan (Volume 2 Alternative 2: USMC Cantonment) and Volume 5 Alternative 2: Army Housing Collocated with Marine Corps Housing at South Finegayan), it was estimated by U.S. Navy Cultural Resources Manager that all of the surface artifacts will be subject to collecting, foot raffic darage, and vandalism within ten years. The Area of Potential Effect is not limited to the footprint of the proposed bousing it includes the beach areas where these historic properties are located. Additionally, he proposed DoS Amantes Workforce Facility, south of the proposed DOD housing, to house an estimated 24,000 workforce individuals, will definitely cause a dramatic increase in effects that may adversely impact significant historic properties. We anticipate that these areas will be used as recreational areas for swimming, fishing and hiking, and the like.	> Revisit MOA developed by the GSA, and the Guam SHPO in August 2007 for the disposal and reuse of a 450-Acre Site at South Finegayan. Public participation 106 process may have been overlooked.
	10	2		12	12-62	12.2.6	No-Action Alternative: The statement that — "DoD management of cultural resources on non- DoD lands at the Harmon Annex or Route 15 would not occur and these sites could be vandalized or allowed to deteriorate. Implementation of the no-action alternative would maintain existing conditions, although there could be a significant adverse impact to NRHP- eligible or listed sites on non-DoD lands" is presumptuous, disingenuos, and misleading.	Re-phrase.



high volume can only be met with ranges located in close proximity to cantonment areas. It would be logistically and cost prohibitive to move every Marine to an off island location to meet these reoccurring training requirements.

DoD understands the importance of the cultural and historic issues related with land in Guam, and in particular those associated with the Pagat site. As stated in the DEIS in Section 12.2, no direct disturbance to the Pagat site would occur from the construction or operation of the proposed firing range. Because of a drop of 300 feet in elevation from the plateau containing the firing range to the Pagat site on the coast, there would not be a visual impact to the site. Noise from the firing range would be equivalent to noise levels when the raceway is in use. It is the intent during the final design phase to contain all rounds and effects within the footprint of the range through the use of berms and other media.

J-008-006

Thank you for your comment. Mount Lamlam is on DoD land, but access to this area is not currently restricted. Mount Lamlam is considered to be a traditional cultural property, but would not be impacted by the trail improvements. Access to Mount Jumullong Manglo would not be restricted under the proposed action. A discussion of National Natural Landmarks has been added to the FEIS in Chapter 3, Geological Resources. Indirect impacts to coastal sites from occupants of housing units on South Finegayan are discussion in Section 12.2 of the DEIS. Impacts due to construction worker housing has been added to the FEIS.

Comments on the DEIS/OEIS - Cultural Resources 2/16/2010

GUAM DEPARTMENT OF PARKS AND RECREATION

	attent	Vol	- (liniu .	тите	Pincality.	Comments on 2011 PARKAL RESOURCES and Historical condition	Recommendation
)	11	- 00 7		12	12-62	12.2.7	Summary of Impacts: "Extensive data collection and surveys associated with this EIS/OEIS have examined more than 5,000 acres in Guam and recorded more than 100 NRHP-eligible archaeological sites and architectural resources. Recent studies have also identified traditional cultural properties, and conducted interviews with individuals knowledgeable about the history of WW II and of traditional practices." The impact analysis has identified significant adverse impacts from the proposed action to between 20 and 57 NRHP-eligible archaeological and architectural resources and traditional cultural properties. Most of the impacts would occur on DoD lands. This EIS/OEIS has proposed potential mitigation measures to reduce those impacts to less than significant levels through data recovery, implementation of a preservation plan, public education, signs, brochures, and documentation."	> List all the studies and suveys indicating this. > Are there plans to nominate NR- eligible sites.
	13	4		12				> Conduct submerged historic properties survey on the APE. > Conduct comprehensive archival research. > Report findings.



Page 4 of 4

J-008-007

Thank you for your comment. The DoD conducted cultural resources surveys (including archaeological, architectural, and ethnographic surveys) of over 5,000 acres of land to identify historic properties. All studies conducted for the Marine Relocation are discussed in Volume 2, Chapter 12, Cultural Resouces. Information on submerged resources were obtained from a series of underwater surveys conducted previously that located and identified 31 shipwreck sites and submerged objects in Outer Apra Harbor. These include 29 shipwrecks consisting of fishing boats, yachts, barges, tugs, landing craft utility vessels, British passenger ships, WWII Japanese freighters or transport ships, and two plane wrecks.



GUAM REGIONAL TRANSIT AUTHORITY

Government of Guam

Felix P. Camacho, Governor Michael W. Cruz, MD, Lt. Governor Joseph C. Manibusan, Interim Executive Manager P.O. Box 2896 Hagatna, GU 96932 Phone: (671) 475-4686 or 4616 Fax: (671) 475-4600



February 15, 2010

Joint Guam Program Office c/o NAVFAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134 Attention: GPMO

Re: Official Comments- Draft Environmental Impact Statement

Buenas Yan Hafa Adai I

J-009-001

The Guam Regional Transit Authority (GRTA) is pleased to submit its official comments on the Draft Environmental Impact Statement (DEIS) relative to the proposed military buildup on Guam, USA. Attached for your review and response are the line item areas of the DEIS that addresses the public (mass) transit and transportation issues. We look forward to continued dialogue and communication with your office on these very important issues facing the island, its People, resources and its future.

Si Yu'os Ma'ase,

JOSEPH C. MANIBUSAN Interim Executive Manager

FOR THE BOARD OF DIRECTORS:

Vicente D. Gumataotao Interim Chairman

Manuel Q. Cruz Interim Vice-Chairman

Ginger S. Porter Interim Secretary

Louise C. Rivera Member

Michael J. Terlaje Member

J-009-001

Thank you for your comments.

DEIS STATEMENTS and GRTA COMMENTS Item by Item

Volume 6 - Chapter 4 (Roadways) - Pages (None Specified)

J-009-002GENERAL COMMENTS

Roadways: throughout the entire Chapter 4 discussion focused on the existing public (mass) transit services provided, including routes serviced and hours of operation. However the report falls short of identifying the other required "infrastructural" elements needed for the transit system to be effective in the delivery of transit services.

For example, there is no discussion of (a) the need for bus shelters, bus stop signs, route and schedule information, etc. (b) the lack of adequate bus shelters and passenger amenities at most of the designated bus stops, (c) the lack of adequate information posted on bus shelters on the schedules, (d) the lack of a permanent bus maintenance facility(s) and administrative offices, (e) the need for newer and more buses, etc.,

These issues and more are addressed in the newly adopted Transit Business Plan, a separate document recently completed by Parsons-Brinkerhoff America. When implemented the plan will address those short falls' outlined in the DEIS. Furthermore, the 2030 GTP adequately addresses these shortfalls and proposes certain improvements needed together with institutional and policy recommendations that directly tie into the overall master and integrated transportation network for the entire island.

Issues in the 2030 GTP include (a) Mass Transit and Bicycle and Pedestrian Facilities (b) Transit, B cycle, and Pedestrian Improvements, (c) Transit Performance Measures, (d) Mass Transit Improvements, (e) Proposed Revenue Sources, (f) Transit Public-Private Partnerships, (f) Coordination between land use and transportation planning, etc.

2. Volume 6 - Chapter 4 - Pages 3-4

DEIS Statement-

Public Transportation

Public transportation on Guam includes the following modes and service types:

- Tour buses
- · Shopping buses
- Taxis
- · School buses
- · Special service for Navy shore leave
- · Guam Mass Transit
- · Fixed-route (buses on designated routes at prescribed headways)
- Demand-response (reservation-type service linking residential areas with fixed-route service or nearby activity centers)
- · Para-transit

For purposes of this project, the discussion focuses on Guam Mass Transit. It describes the existing conditions for fixed-route, demand-response service (DRS) areas, and para-transit service in each of the four areas of interest. There is overlap between the routes, DRS areas, and para-transit areas in the

Guam Regional Transit Authority (GRTA) - DEIS Comments

J-009-002

Thank you for your comments.

areas of interest, so descriptions of routes and areas may be described in multiple areas.

There are currently six fixed-routes, seven DRS areas, and five para-transit areas on the island. A section of Chamorro Village, located in Hagatna, currently acts as a transit center consisting of a shared-use parking lot with two bus shelters. Only one route in the fixed system is not anchored by this location. In addition to the fixed routes, all DRS routes originate and terminate at Chamorro Village. In this respect, the current network acts as a low-frequency "pulse" system, having most of the routes service one central location simultaneously to maximize transfer potential.

The third type of mass transit on Guam is para-transit. Para-transit service, provided by Guam Mass Transit, supplies door-to-door transportation for persons with certified disabilities and is available by advance reservation. Hours of operation are 5:30 a.m. to 7:30 p.m., Monday through Saturday, and 7:30 a.m. to 6:30 p.m. on Sundays and holidays.

There are overall scheduling issues with mass transit on the island. Buses generally run ahead of the published schedule, and they do not adhere to slower speeds or wait time to follow the schedule, that often causes passengers to miss the bus and thus does not provide a reliable public transportation system on the island.

J-009-002 RTA Comment(s) — The DEIS statements are accurate, however, GRTA agrees in part with the statement on the current state of the present public (mass) transit system. It is to be noted that para transit services is a curb-to-curb service which provides origin to destination transportation based on assessed need. This section requires expansion to identify other "infrastructural" issues that presently exist with the current services, such as the lack of adequate safe, clean and accessible bus shelters with passenger amenities, lack of a public educational and marketing program, lack of passenger travel training etc.

3. Volume 6 - Chapter 4 (Roadways) - Pages 74, 81, 96, 106, 107

TEIS Statement-

Public Transportation Impacts. Impacts to the public transportation system relate to the delays caused by increased levels of congestion on roadways and at intersections. In the Central Region, this would affect the fixed-route service along Routes 1 and 10, as well as the demand response and para-transit services.

Delays on the roadways increase passenger travel times, with longer headways and missed transfers. This would also affect the fixed-route services proposed for Routes 16 and 26. Implementation of new transit services should take into consideration the impacts of the military relocation.

<u>Public Transportation Impacts</u>. Impacts to the public transportation system in the Apra Harbor Region should be minimal and would relate to the delays caused by increased levels of congestion on Route 5 or at intersections near DOD lands. This would possibly affect the fixed-route service along Route 1, as well as any demand response and para-transit services. Implementation of new transit services should take into consideration the impacts of the military relocation.

GRTA Comment(s)- Public Transportation Impacts: We agree with this statement, however, GRTA recommends the implementation of new transit services cannot be based solely on the impact of the

J-009-002n illitary relocation, but must also include and factor in the current users of the system particularly riders with disabilities, expanded employment opportunities on and around military installations and neighboring residential areas, and the normal local population growth in both central and northern Guam.

Recommendations- We also recommend that DOD/JGPO consider the following remedies:

- Explore the possibility of augmenting the existing transit system with additional buses from the Futenma base if the military already has a public transit system in Okinawa serving the military personnel;
- Explore the possibility of providing additional funding to the GRTA over and above current allocations to serve the military population within the military installations on Guam;
- Assist GRTA in the identification of specific pickup and drop off points within the military installations (i.e. Northwest Field, AAFB, Naval Station, Anderson South, etc.)
- 4. Volume 6 Chapter 2 Pages 105 135

DEIS Statement-

2.5.1.1 Project Background

In response to the island's ongoing roadway problems, the 2030 Guam Transportation Plan has programmed projects to address many of the immediate needs of Guam that have not been addressed in many years. The planned military buildup would include relocation of approximately 8,600 military personnel and 9,000 dependents from Okinawa, Japan; improvements to pier/waterfront infrastructure to support transient nuclear aircraft carriers on the island; and placement of an AMDTF on Guam, as well as related construction activities required to support these relocations. Troops would begin relocating to Guam in 2011; relocation would be complete by 2014. Buildup activities related to military facility construction would occur from 2010 through 2016, with peak construction and population in 2014. Road construction to support the military buildup would also need to commence in 2010 and be complete by 2016.

The existing traffic volumes, physical conditions, and designs of Guam's roads vary widely. As a result of the military buildup on the island, traffic volumes and congestion levels are anticipated to reach unacceptable levels. Military-related traffic would add to the congestion levels, worsening already poor conditions. In addition, the structural integrity of the roads and bridges would be compromised as a result of the increased number and weight of trucks.

2.5.1.5 Mass Transit

The traffic projections developed by the Guam DPW show that congestion levels in both the short term and the long term would result in substantial delays, as measured by the ratio of traffic volume to roadway capacity. Analysis indicated that it is unlikely that sufficient additional roadways or traffic lanes could be built to completely eliminate traffic congestion. Mass transit would help address this need.

Existing mass transit routes and service areas are depicted in Figure 2.5-3.

As part of the 2030 Guam Transportation Plan, a new Core Bus System has been proposed to help support island-wide mobility during the 2010-2014 time period. Although most construction worker housing areas would be expected to include vans or buses to and from the work sites, the Core Bus System is expected to be operational by 2012. The new system is designed to connect major employment and population centers. The system consists of five new fixed routes. All major military

facilities that house workers or are major employment destination points would be connected by this new system. The Dededo area (near NCTS Finegayan) would be especially well served because it is one of the major population centers; by 2030 it would experience a 50% increase in population. Projections show that ridership has the potential to reach 1.32 million annual trips.

The Core Bus System would also provide direct service between the Naval Base and Tumon Bay, which is the major tourist area on the island. A total of 50 buses are needed to operate this service, and GovGuam is pursuing a Federal Transit Administration Section Section 309 discretionary grant to fund the acquisition of these vehicles. The proposed mass transit fixed-route network is depicted in Figure 2.5
J-009-002 and Figure 2.5-5. [GRTA Comment(s)- Note that the amount allocated to Guam under the Section 5809 grant program will only purchase 3 - 4 buses, not 50 as stated in this paragraph]

GRTA Comment(s)

Related Actions- Utilities and Roadway Projects

Sec. 2.5 - 2.5.5: Off Base Roadways- refer to sec. 2.5.1.5 (Mass Transit) on pages 2-109-2-112...This is a very important section of the DEIS as it lays out the required specific action for the next two years which lead up to 2012 implementation of the new "Core Bus system". The new core stem will address those areas identified as being heavily impacted by increased traffic congestion. To that end the following actions must be aggressively pursued by the GRTA... (a) work closely with the Governor's Office, GIAA, DPW, FAA, FTA and FHWA to secure a minimum of 10 acres of GIAA property for the construction of a maintenance facility, bus parking/security area, administrative offices, etc. for the GRTA bus fleet. (b) implement the recommendations of the newly adopted Transit Business Plan, (c) procure new transit buses based on federal funding already available, and (d) pursue additional federal funding to procure additional buses as recommended in the transit business plan. The goal is to purchase 50 buses in Phase I of the transit business plan and work towards the goal of 100 buses in Phase III of the transit business plan.

5. Volume 6 - Chapter 2 - Page 109

DEIS Statement

Section 2.5.1.5 (Mass Transit) 2.5.1.5

The traffic projections developed by the Guam DPW show that congestion levels in both the short term and the long term would result in substantial delays, as measured by the ratio of traffic volume to roadway capacity. Analysis indicated that it is unlikely that sufficient additional roadways or traffic lanes could be built to completely eliminate traffic congestion. Mass transit would help address this need. Existing mass transit routes and service areas are depicted in Figure 2.5-3.

GRTA Comment(s)- The DEIS statement is accurate, however GRTA would like to see recommendations on how can the existing system be upgraded to mitigate the expected traffic volume and congestion. What solutions does DOD proposes to address in this respect?

6. Volume 6 - Chapter 2 - Page 112

GRTA Comments(s) - The DEIS statements are accurate on the need for a new Core Bus System to address the expected demand. GRTA will require additional financial assistance over and above the present level of funding as outlined in the DEIS and the 2030 Guam Transportation Plan to meet operational and resource requirements.

J-009-002D that end we recommend that DOD/JGPO coordinate with the U.S. Department of Transportation, Federal Transit Administration (USDOT-FTA) and the Federal Highway Administration (FHWA) including other federal agencies to identify other possible funding sources that will augment the existing public transit system with the necessary resources for both acquisition of additional rolling stock (buses), capital facilities planning and other related amenities.

GRTA Comment(s) — With respect to the Section 5309 discretionary grant to fund the acquisition of vehicles (buses), the Guam Regional Transit Authority (GRTA) has already initiated the process of procurement, subject to the limits of funding allocated for Guam. GRTA will require additional funding through other sources if it is to follow the Transit Business Plan recommendations that an initial fleet of 50 new transit buses be procured, and the ultimate acquisition goal of 100 buses be pursued.

Recommendation- DOD/JGPO must review the recently completed and GRTA-approved Transit Business Plan and partner with GRTA for its funding and implementation.

GRTA Comment(s) - Over and above the actual procurement of buses, the GRTA require a permanent home and place for new (i) Administrative Offices, (ii) Maintenance Facilities, (iii) parking/security of buses, (iv) central dispatch office, etc. Funding support is necessary for such significant capital outlays.

Recommendation- DOD/JGPO must review the recently completed and GRTA-approved Transit Business Plan and partner with GRTA for its funding and implementation.

7. Volume 6 - Chapter 2 - Pages 111 - 114

DEIS Statement(s):

ISLAND WIDE MAPS - Existing Mass Transit Network and Demand Service Areas on Guam --Proposed Mass Transit Network on Guam, - Mass Transit Network on Guam-

GRTA Comment(s) – The DEIS statements are accurate. Note that for the GRTA to implement and increase the level of transit services for the military buildup it will require additional funding sources to increase its fleet of buses, construct and install of adequate bus shelters at all designated bus stops, a permanent maintenance and administrative support facility with adequate bus parking grounds.

Recommendation DOD/JGPO must review the recently completed and GRTA-approved Transit Business Plan and partner with GRTA for its funding and implementation.

END OF REPORT



Felix P. Camacho Governor

Department of Agriculture Dipattamenton Agrikottura

163 Dairy Road, Mangilao, Guam 96913

Director's Office 734-3942/43; Fax 734-6569 Agricultural Development Services 734-3946; 735-3946; 735-3950 Plant Nursery

Aquatic & Wildlife Resources Forestry & Soil Resources Plant Inspection Station

734-3949

735-3955/56; Fax 734-6570 735-3949/51; Fax 734-0111 475-1426/27; Fax 477-9487

Joseph D. Torres Director

Joaquin N. Naputi Deputy Director

Michael W. Cruz. M. D. Lt. Governor

www.guamagriculture.org

February 3, 2010

MEMORANDUM

TO:

Director

FROM:

Chief, Forestry

SUBJECT: Comments on DEIS

Submitted for your review is our comments regarding the DEIS. Contact me should you have

Joseph S. Mafnas

J-010-001 Purpose: The following are comments pertaining to the military buildup on Guam, using information presented in the draft EIS (November 2009), and applying data gathered and analyzed as part of Guam Forestry's 5-year Statewide Assessment and Resource Strategy (SWARS), in preparation for the USDA Forest Service in May 2010. The following comments are not inclusive of all aspects of the proposed actions in the EIS; rather the information presented below represents a focused assessment of how the proposed actions of land development are likely to influence Guam's forests and Guam Forestry's mission.

Overview:

The areas of focus for this assessment were strictly the Proposed USMC Main Cantonment & Family Housing compounds ("Housing"), the proposed Andersen South Training grounds and associated firing ranges ("Andersen"). This memo addresses threats to forests and trees and quantifies the potential impact of development within the boundaries of the proposed compounds, and offers a range of mitigation options and considerations to offset these impacts.

Spatial data were obtained from the DoD that outlined the boundaries of the analysis areas described above (Figure 1). A newly created fine-scale vegetation map developed as part of Guam Forestry's SWARS project1 and was used to identify individual tree locations, based on aerial imagery, LiDAR analysis and ground truth data. The SWARS also identified locations that were highly likely to produce sediment to streams through surface erosion processes and locations where vegetation types and topography would represent a high risk of fire to native forests (see mitigation). A full review of these methods and findings will be available in May 2010.

Forest Analysis Summary:

Forested zones are highly fragmented on Guam and represent only approximately 56,496 acres, or 42% of the land area of the island. These forests are mostly relegated to the northern half of the island, with 53% of the total island forest cover residing within the affected watersheds (Agana, Mangilao and Northern watersheds). There are few remaining fragments on Guam of what has been identified as pristine, or native undisturbed, forest; the majority of which are also relegated to the areas under the proposed action alternatives and in areas surrounding current military operations.

Guam and CNMI Military Relocation DEIS/OEIS

J-010-001

Thank you for your comment and the analysis. Watershed erosion studies and projects are being considered as mitigation for marine impacts in Apra Harbor and other greenbelt plantings are being considered. Your recommendation for offset planting projects fits well with this planned mitigation and the Navy and Marine Corps looks forward to working with you on this initiative. The SWARS study that you are finalizing will be helpful to determine specific mitigation targets and methods. Your comment concerning your desire for involvement in community and urban forestry initiative for the proposed housing projects may not be feasible due to the limitations of space and timing for these particular projects.

Some of the information in your comments is incorrect: The total acreages that you project would be disturbed by the proposed EIS actions are much higher than the actual acreages that would be disturbed. The specific areas that would be disturbed are shown in figures and tables in the EIS and are broken out by vegetation type.

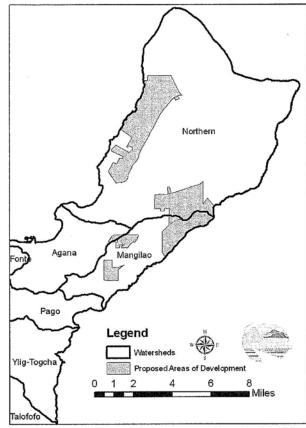


Figure 1. Locations of the proposed development areas addressed in this analysis.

For the purposes of this comment assessment, the proposed actions involve the creation of housing developments and associated land use on approximately 5,055 acres in two major locations, and an additional 3,870 acres of affected areas within and adjacent to the proposed Andersen training grounds (Figure 1). In total, the area used for this assessment included approximately 9,375 acres that would be directly influenced by development or activities. This assessment did not account for additional roads or other infrastructure that would be associated with these developments; it considered only the spatial area that encompassed the proposed activities.

Affected Forest Environment:

Individual trees and forest fragments were identified on the landscape in the development of a fine-scale vegetation map (2 m resolution, see SWARS) and were overlaid onto the spatial boundaries of the Housing and Andersen proposed activity areas. Tree cover was calculated

J-010-001

using the classified forest and individual trees at fine scales and reported as a percentage of land area within the development zones.

Looking only within the 9,373 acres of proposed development, up to a total of 5,432 forested acres are at risk of deforestation or secondary effects of development (compaction, fragmentation, invasive species pressure, vandalism). This represents 10% of the total 56,496 acre forested environment on Guam (Table 1).

A mapped overview of the tree cover within the proposed development sites and at island scales are presented in Figure 2 and Figure 3.

Table 1. Summary of affected forested acres on the proposed parcels and island-scale effect on the forested

CHAIT OHINGER.									
Location	Total of Forested	Total Acres Affected	% Affected Forest	% Total Forest on					
	Acres		within Development	Guam					
Andersen	2,733	3,868	71%	5%					
Andersen Housing Totals	2,699	5,505	49%	5%					
Totals	5,432	9,373	58%	10%					

The proposed reduction of forest cover of up to 10% of the total forest cover of Guam is a significant impact that affects the viability of Guam's forests, including reductions in the benefits of forests: groundwater infiltration, potential habitat, biodiversity, and water quality.

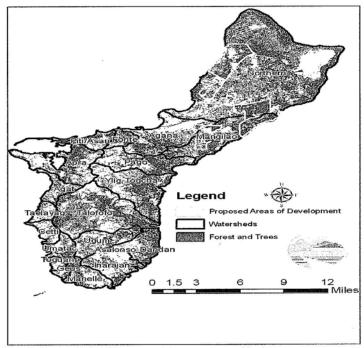


Figure 2. Island-scale view of tree cover and the proposed areas of development.

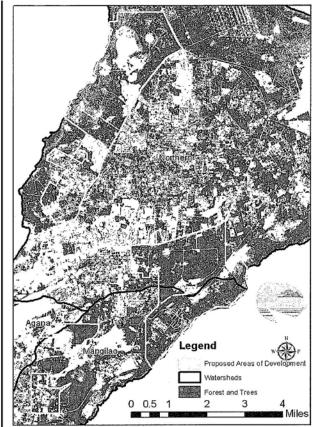


Figure 3. Close-up view of the current tree cover within the proposed areas of development.

J-010-001 | Proposed Mitigation Parameters:

Given the high potential for reductions in the remaining forests of Guam due to development and training activities, mitigations should involve a combination of several key mechanisms:

1. Urban and Community Forestry Program Involvement. Planning and development of the proposed housing development should include a role for Guam Forestry to identify areas within the proposed properties to protect fragments of native forest and provide "green space" in the development design. This will provide an immediate reduction of the affected forest by conserving existing forest fragments into the development designs.

2. Identify offset planting projects on Guam that accomplish multiple goals (see figures below):

Increase forest fragment size

Convert vegetation types that pose a high fire risk to standing forests Target direct or buffer plantings of forest in areas that pose high risks for erosion and sediment delivery to streams.

The SWARS currently in development by WPN and Guam Forestry is in the process of targeting site-specific locations for conversion of non-forest and degraded lands to forest environment to meet the combined objectives identified in Mitigation Goal #2 above. A prioritized action plan for planting projects for expanding forests, mitigating soil losses and to lower fire risks is in the process of being completed for Guam (May 2010).

Preliminary SWARS results have been compiled that met the combined objectives of Mitigation Goal #2 above and are presented in Figure 4 and Figure 5. Overall, 8,906 acres are priority ranked to meet these objectives. Of these, 3,095 acres (35% of priority ranked areas) are designated as "extreme", or having elevated risk of fire, sediment and/or fragment size; 5,811 acres (65%) are classified as having a "high" priority, having at least a moderate risk for all objectives.

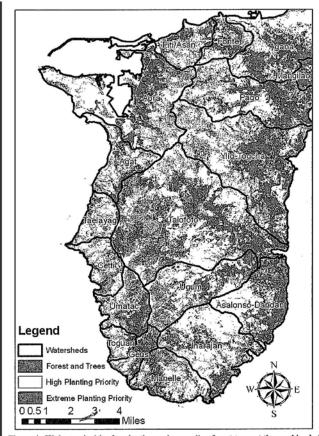


Figure 4. Highest priorities for planting and expanding forest to meet the combined objectives of (1) limiting sediment delivery, (2) lowering fire hazard risk, and (3) expanding current forest edges to increase fragment size. "Extreme" priorities represent severe risk in any of the three categories (3,095 acres) and "High" priority areas represent at least low threats in all three categories (5,811 acres). In total, there are 8,906 acres of priority mitigation planting areas identified on Guam meeting these combined criteria.

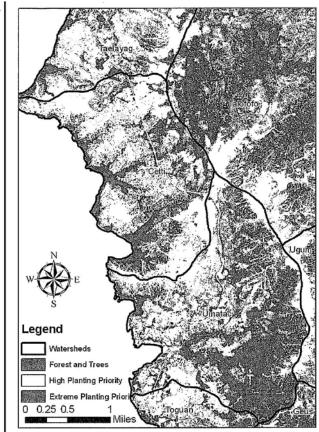


Figure 5. A close-up view of SW watershed top priority planting sites that will meet combined objectives of (1) limiting sediment delivery, (2) lowering fire hazard risk, and (3) expanding current forest edges to increase fragment size (see Figure 4).

J-010-001

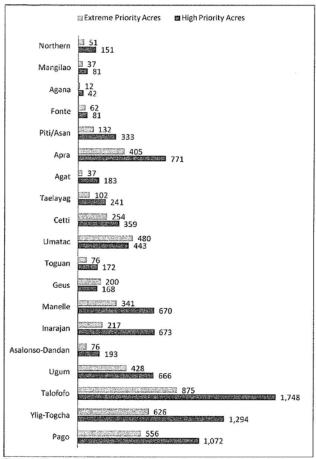


Figure 6. Watershed-level summary of "Extreme" and "High" priority planting acres that achieve combined mitigation objectives of offsetting sediment delivery to streams, fire risk to standing forest, and increasing existing forest fragment sizes.

Effect of the Proposed Mitigation on Guam Forestry Resources:

The proposed mitigation will require a significant effort by the Guam Forestry Department. The initial working drafts of the SWARS document already identifies a need for a major increase in program capacity to reduce existing fire risk, sedimentation, and water quality effects and implement restoration of priority watersheds. The proposed mitigation for the military build-up as identified above will require an increase in all facets of the Guam Forestry program. We will evaluate the resources needed to respond to the military buildup mitigation as a critical element of the SWARS plan.

Alicia G. Limtiaco Attorney General



Phillip J. Tydingco Chief Deputy Attorney General

OFFICE OF THE ATTORNEY GENERAL

February 17, 2010

JGPO c/o NAVFAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134 Attention: GPMO

Re: Office of the Attorney General Comments to DEIS

Dear Sirs:

J-011-001

The Office of the Attorney General hereby respectfully submits its comments to the Draft Environmental Impact Statement (DEIS) Concerning the "GUAM AND CNMI MILITARY RELOCATION (Relocating Marines from Okinawa, Visiting Aircraft Berthing, and Army Air and Missile Defense Task Force), which are attached to this letter.

It is important to bear in mind that the Office of the Attorney General is administered by the elected Attorney General of Guam who is mandated to be the Chief Legal Officer of the Government of Guam and shall have cognizance of all legal matters, excluding the Legislative and Judicial Branches of the government of Guam, involving the Executive Branch of the government of Guam, its agencies, instrumentalities, public corporations, autonomous agencies and the Mayors Council. The Attorney General is also the public prosecutor and, by himself, a deputy or assistant, shall conduct on behalf of the Government of Guam the prosecution of all criminal offenses against the laws of Guam which are prosecuted in any of the courts of Guam, the District Court of Guam, and any subsequent appeals there from.

Finally, it is also important to note that the Office of the Attorney General for the U.S. Territory of Guam (Guahan) is comprised of four (4) divisions whose operations, personnel, resources, and services that are provided to all residences of Guam, presently and in the near future, will be impacted by the anticipated military build-up. These are the Child Support Enforcement Division, Civil/Solicitors Division, Family/Juvenile Division, and the Prosecution Division. The comments pertaining to the impact of the military build-up upon these four divisions of the Office of the Attorney General should be deemed to be preliminary due in part to the paucity of relevant data and information provided to us thus far.

Should you have any questions do not hesitate to contact me.

287 West O'Brien Drive • Hagātña, Guam 96910 • USA
Telephone: (671) 475-3324 • Facsimile: (671) 472-2493 • law@guamattorneygeneral.com

Guam and CNMI Military Relocation DEIS/OEIS

J-011-001

Thank you for your comment.

OFFICE OF THE ATTORNEY GENERAL COMMENTS TO DEIS

CIVIL DIVISION COMMENTS TO DEIS

The Civil Division of the Office of the Attorney General (OAG) is a combination of the Civil Litigation Division and the Solicitors Division and also includes the government claims unit, the consumer protection unit, and the notary public unit.

CIVIL LITIGATION DIVISION

The Civil Litigation Division handles civil actions in which the government is an interested party. This includes bringing actions on behalf of the government and its agencies and defending actions brought against the government and its agencies. These actions include both trials and appeals in the courts of Guam and the courts of the United States. The Attorney General is also tasked with bringing actions when necessary to insure compliance by government agencies and officials and private parties with the regulatory laws of Guam. Additionally, the Attorney General brings actions on behalf of the people of Guam in matters regarding the protection of the public interest.

Some of the types of cases handled by the Civil Division include the following: land condemnation cases, land registration cases, zoning and easement disputes, civil rights actions, federal regulatory actions, wrongful death cases, personnel injury cases, government employee discipline and grievance cases, wage and hour disputes, maritime cases, contract disputes, procurement appeals, civil forfeitures, consumer complaints and mediation, involuntary commitments, environmental protection cases, cases to determine the extent of government authority and the legality of government action, and cases resolving the interpretation, constitutionality and organicity of laws and regulations.

The complex litigation cases often require more than one lawyer to work on the case. For example, four lawyers (including the Attorney General) appear at the quarterly status hearings in the landfill case, because different lawyers must work on different aspects of the case. As a new task, the Civil Litigation Division must take over the permanent injunction case against the DMHSA and DISID. Like the landfill case, more than one lawyer will have to work on this case. As an additional task, recently court rulings have required litigation attorneys to appear at many juvenile cases involving DMHSA and DISID. Another ongoing case that takes a great deal of legal resources is the federal law suit against the Department of Corrections (DOC) which now includes the DMHSA because a forensic unit for inmates and detainees is established at the DMHSA.

Hearing Officers. The Civil Division has the task of providing hearing officers to government agencies, boards and commissions when they conduct administrative hearings pursuant to the Administrative Adjudication Act and other legal mandates

Office of the Attorney General Comments to DEIS Page 2 of 22

requiring a administrative hearings. This includes providing a hearing officer for fair hearings which are federally mandated. For example, the food stamp and public assistance programs require fair hearings.

Government Claims Unit. The government claims unit must investigate and processes all claims filed under the Government Claims Act against the line agencies of the government and the Mayors within the timelines established by law. The claims include tort claims – property damage, personal injury, wrongful death – and contract claims.

Consumer Protection Unit. The consumer unit enforces the Deceptive Trade Practice Act and various other consumer laws. In addition to handling consumer complaints and litigation, the consumer unit reaches out to inform both the consumers and the businesses of Guam about the requirements of the Deceptive Trade Practices Act and other matters affecting Guam's consumers. The unit issues press releases to make the public aware of consumer scams and various consumer issues. Additionally, the consumer unit enforces the Tobacco Master Settlement Agreement (MSA). Guam has received \$40 million through the MSA. In return, local tobacco distributors and their manufactures who are not parties to the MSA must register with the OAG to insure that escrow accounts are set up for tobacco sold on Guam.

The Notary Unit. The Notary Unit process new applications for persons who want to become a notary public. This includes reviewing applications and giving notary tests once a month. The tests are prepared and updated by the unit. A notary commission is good for four years. The unit also renews applications for renewals of notary commissions. In addition, the unit investigates and resolves complaints made against a notary, including conducting administrative hearings. Further, the unit reviews requests from the public for the certificate of authority of a notary, reviews the history of the person's commission and issues such certificates when appropriate.

SOLICITORS DIVISION

The Solicitors Division provides legal services to the agencies, boards, commissions and other instrumentalities of the Executive Branch and writes legal opinions and legal memoranda for the Executive agencies, the Legislature and the Mayors.

The tasks of the Solicitors Division include the following: writing Attorney General opinions and legal memoranda; giving legal advise to agencies either verbally or through written information and guidance; reviewing documents and giving opinions regarding bond issues; drafting, reviewing and approving proposed agency rules and regulations before they go to Governor for introduction to the Legislature; attending public meetings of boards and commissions; assisting in conducting public hearings for agency rules and regulations; drafting and revising standardized forms for use by agencies; acting as agency counsel at administrative hearings; drafting and/or reviewing procurement contracts; assisting agencies with procurements, including reviewing and approving procurement records and contracts as to legality and form; reviewing and approving other

Office of the Attorney General Comments to DEIS Page 3 of 22

types of contracts (i.e., non-procurement agreements such as inter-agency memoranda of understanding, qualifying certificates, government real property transactions, etc.); reviewing and/or drafting bills or legislation as requested by an agency or required by the Attorney General; coordinating responses to Sunshine Act requests; assisting in administrative matters relative to Commission on Post-Mortem Examiners (the Attorney General has traditionally been chairperson of the Commission).

IMPACT STATEMENT

In order to meet the objectives of the Civil Division, it must have trained and experienced lawyers in a variety of fields as well as highly qualified and experienced support staff.

The Civil Division has very recently been given additional mandates that will require the hiring of experienced attorneys and staff. These new mandates include advising all Executive Branch agencies — including line agencies, autonomous agencies, public corporations and other government entities — during all phases of a procurement of \$500,000 or more, representing GMHA, and representing DMHSA and DISID in the permanent injunction case to bring these agencies in line with federal requirements. The Civil Division is trying to give more direct and immediate legal advice to the various agencies which will be required as the Guam buildup begins and increases.

Public Law 72-30. Public Law 72-30 requires the OAG to act as legal adviser during all phases of a solicitation and procurement which is estimated to result in an award of \$500,000 or more. This is a new task for the OAG. The review by the OAG of all stages of a procurement applies to procurements by every Executive Branch agency, autonomous agency, instrumentality or public corporation of the government. One autonomous agency – the Guam Port Authority – has already indicated to the OAG that they believe they will need a full-time attorney for their agency alone in order to insure the timely letting of contracts funded by federal ARRA funds. It is difficult to obtain accurate estimates of the future procurement needs of all government entities, particularly with significant ARRA funds and funds for the military buildup coming to a number of agencies. However, we believe that, at a minimum, based on present circumstances, the OAG will need at least one attorney dedicated solely to reviewing and assisting with line agency procurements and one attorney dedicated to reviewing and assisting with autonomous agency procurements and one legal secretary to assist each of the dedicated attorneys.

GMHA. Another task that has very recently fallen to the Civil Division is handling legal matters for the GMHA (the "hospital"). The hospital has a myriad of legal matters which require regular attention. A private law firm was acting as legal counsel for the hospital. However, very recently the private counsel discontinued its representation of the hospital. Consequently, the OAG is now responsible for handling all legal matters involving the hospital. In recent discussions, the hospital administrator has indicated that he would like to have a full-time Assistant Attorney General assigned to the hospital to handle all legal matters except medical malpractice and tort claims for which a private firm would be

retained. Handling the legal matters of the hospital has placed a large burden on the resources of the OAG. Assuming that medical malpractice and tort claims are outsourced to a private law firm, the OAG will require one Assistant Attorney General to be assigned fill-time to the hospital to handle all other legal matters. This Assistant Attorney General must be either paid for by the OAG or the GMHA. If the OAG is required to also handle medical malpractice and other tort cases for the hospital, at least one more attorney and a legal secretary would be needed.

DMHSA & DISID. The Department of Mental Health and Substance Abuse (the "DMHSA") and the Department of Integrated Services for Individuals with Disabilities ("DISID") are currently under a permanent injunction which is being enforced by the District Court of Guam in the cases of *J.C., et al. v. Camacho, et al.*, Civil Case No. CIV01-00041 and *R.A. v. Camacho, et al.*, Civil Case No. CIV04-00005. The permanent injunction case was being handled by private counsel, but has been recently transferred to the OAG. Representing the DMHSA and DISID and handling the permanent injunction case will require the services of a full-time attorney dedicated solely to matters involving the DMHSA and DISID.

DPW HIGHWAY DIVISION. The OAG currently has two lawyers and one legal secretary working full-time on Department of Public Works ("DPW") Highway Division legal matters. The lawyers spend most of their time at offices at DPW. Federal funding reimburses the OAG for the three persons. The Attorney General was able to hire the two lawyers and legal secretary based on a reimbursement commitment from the federal program manager for the Highway Division. Initially one lawyer was assigned to the Highway Division. Soon it became clear that the work load required an additional lawyer and a full-time secretary. The fact that two lawyers and one legal secretary are now working exclusively on Highway Division matters gives an idea of the increase in work load for the OAG as the buildup on Guam continues and increases. This should be the model for other government agencies.

Military Buildup. The impact from the military buildup on the Executive Branch boards and agencies will also impact the Civil Litigation and Solicitors Divisions of the OAG. As of mid 2009, the Planning Information Program of the Bureau of Statistics and the Bureau of Statistics and Planning has indicated the population of Guam was 178,287. Applying the increases in population estimated in the Guam Military Relocation Draft EIS/OEIS, Guam can anticipate the following population increases through 2014:

<u>Cumulative Increases</u> <u>From Current Population Level</u>

2010 6% increase

2011 16.6% increase

2012 24.8% increase

2012 24.5% increase 2013 29.5% increase

2014 44.4% increase

These increases will no doubt require a comparable increase in the need for government services and enforcement of regulations and laws which, in turn, will increase the need of the government for legal services. We expect to see comparable increases in the need for legal services regarding procurement; contract review, drafting and assistance; labor matters, including enforcing wage and hour laws; enforcement of the regulatory authority of the Department of Public Health and Social Services ("DPHSS"); giving advice and assistance regarding construction matters to DPW, the PEALS Board and the Contractor's Licensing Board ("CLB"), including assisting with administrative hearings and investigations; assisting GEPA with its regulatory and licensing functions; assisting the Department of Revenue and Taxation ("DRT") with its non-tax regulatory responsibilities - assuming DRT will hire its own lawyer to handle tax matters; assisting law enforcement agencies with civil issues, including the Guam Police Department ("GPD") - this would include assisting GPD's own lawyer with litigation cases and other matters - assisting DYA, DOC (including representing DOC in the District Court stipulated judgment case with the Department of Justice), the Parole Board and the Post Mortem Commission; assisting the various medical boards and other boards with enforcement of their mandates, advice about the Open Government Law and administrative hearings; assisting the Department of Labor with enforcement of the wage and hour laws; assisting the Department of Agriculture with regulation of aquatic and wildlife resources; assisting the Guam Environmental Protection Agency which its enforcement functions; and enforcing the Guam Deceptive Trade Practices Act, including responding to a wide range of consumer complaints.

In sum, an increase in all government regulatory activities and public works projects comparable to the increase in construction activities and the increase in population is anticipated.

PROGRAM BUDGET PLAN

Funding for the Civil Division will be used to offset personnel and operational costs in the upcoming fiscal years. Based on past experience, the following plan of the Civil Division is calculated to best serve the legal needs of the various government agencies and government boards and commissions. The following personnel needs are set at attorney personnel levels of the Civil Litigation and Solicitors Divisions more than 10 years ago. The Civil Division will again need this level of personnel as the projects and population increases associated with buildup begin.

Lawyer/secretary ratio. Currently the Solicitor Division has seven lawyers and only two legal secretaries — one of the lawyers and one secretary work exclusively for the Highway Division of DPW. Excluding the Highway Division lawyer and secretary, leaves one legal secretary to handle the work of six lawyers in the Solicitor Division. The Litigation Division presently has six lawyers and one secretary (one lawyer works exclusively for the Highway Division of DPW). Again, excluding the Highway Division lawyer, leaves one legal secretary to handle the work of five lawyers. Therefore —

Office of the Attorney General Comments to DEIS Page 6 of 22

excluding the two lawyers and one legal secretary representing only the DPW Highway Division – the Civil Division currently has a support staff of two legal secretaries for eleven lawyers. A normal lawyer/secretary ratio is one legal secretary for two or no more than three lawyers.

Administrative hearings. The Civil Division must provide hearing officers to handle all administrative appeals to the various agencies, boards and commissions. This means that the Civil Division must have two lawyers at an administrative hearing — a lawyer representing the agency and a lawyer acting as a hearing officer for the board or commission. The demand for administrative hearings will increase as the buildup continues. Due to the problems with conflict of interest allegations, the Civil Division needs a separate hearing officer division to handle administrative hearings. At this time, a hearing officer division could consist of one lawyer who does not represent or advise any agencies or boards.

Plan for agency legal services. In order to provide adequate legal services to the various executive agencies, boards and commissions and to represent the government in all litigation handled by the OAG, the OAG needs sufficient staff to assign lawyers to particular agencies and to have a litigation staff sufficient to adequately handle all lawsuits involving the Executive Branch of the government. Larger agencies with a great deal of legal work need a full-time lawyer assigned with the agency providing an inhouse office for the assigned lawyer. Smaller agencies requiring less than full-time legal services would be grouped together according to related functions with one lawyer assigned to the agencies grouped together. The following plan is intended to fulfill the legal needs of the Executive Branch as the military buildup begins and continues to grow on Guam.

<u>Highways</u>: As discussed above, two lawyers and one legal secretary are presently assigned full-time to handle DPW Highway Division projects. The OAG is reimbursed for the positions through federal highway funds. This model is working very well and should be adopted for other agencies.

One solicitor lawyer (reimbursed by federal funds)
One litigation/solicitor lawyer (reimbursed by federal funds)
One legal secretary (reimbursed by federal funds)

<u>Land</u>: One lawyer would handle land matters, advising the agencies and commissions dealing with land matters and filing land registration cases, reviewing private land registration cases, bringing condemnation cases and handling zoning and all other real property matters. Since there would be considerable litigation in handling this case load, a litigation lawyer would be assigned to handle land matters.

One litigation lawyer for:

Office of the Attorney General Comments to DEIS Page 7 of 22

Department of Land Management; Ancestral Land Commission; Guam Land Use Commission Department of Agriculture

<u>Medical</u>: As mentioned above, <u>One solicitor lawyer</u> assigned full-time to handle GMHA (non-litigation matters).

One litigation lawyer assigned full time to:

DMHSA DISID.

One solicitor lawyer to handle all other medical related boards and commissions, including:

Medical Board Allied Health Board Nurses Board Dentistry Board Pharmacy Board Cosmetology Board All other related boards and commissions

Environment: One litigation lawyer assigned full-time assigned to GEPA.

Procurement: As mandated by PL 72-30,

One solicitor lawyer assigned full-time to handle all procurement matters for the government line agencies, including

DPW GSA

One solicitor lawyer assigned full-time to handle procurements by AUTONOMOUS agencies

<u>Contracts</u>: <u>One solicitor lawyer</u> assigned full time to review all contracts, memoranda of understanding, bond documents and other documents that are reviewed by the Attorney General.

<u>Labor</u>: On <u>litigation lawyer</u> would handle all government labor matters, including:

CSC

DOL

Office of the Attorney General Comments to DEIS Page 8 of 22

AHRD

All labor contract negotiations

<u>**DRT**</u>: One solicitor lawyer assigned to assist DRT with all its non-tax regulatory matters including:

Banking

Insurance

Securities

DMV

Licensing

ABC and other compliance

Agriculture and Planning: One solicitor lawyer assigned to assist

Dept of Agri.

BSP

Construction: This will become very important with the upcoming

military build up.

One litigation lawyer to assist in all construction related matters,

including:

DPW

PEALS Board

CLB

<u>Law Enforcement</u>: <u>One litigation lawyer</u> to handle all civil law

enforcement issues coming before the Civil Division,

including:

GPD (as assistance to GPD's lawyer)

DYA

DOC

Parole Board

Post Mortem Commission

Public Health: One solicitor lawyer assigned full-to enforcement for

DPHSS

Other Regulatory: One solicitor lawyer to assist other agencies,

DOA

DPR

GFD

Workers Compensation

Mayors

Consumer

Other agencies, boards and commissions

Office of the Attorney General Comments to DEIS Page 9 of 22

<u>Hearing Officer</u>: One litigation lawyer to act as a hearing officer for all government agencies, boards and commissions with administrative hearings

Regular Government Litigation: Experienced litigation lawyers are needed to either bring or defend litigation involving the government and to assist other lawyers representing specific agencies with any agency litigation being handled by the agency attorney. The OAG currently represents the government in eight lawsuits for over \$1 million; in lawsuits over \$300,000; and sixteen government claims over \$300,000; and numerous other cases including the Clean Water Act (landfill) law suit filled by the United States against the government of Guam, the lawsuit against the Department of Corrections filed by the United States, the permanent injunction case against DMHSA and DISID, the district court class action suit against DPW for compliance with the Americans with Disabilities Act.

The litigation case load requires: Four experienced litigation lawyers dedicated exclusive to handling law suits involving the government.

J-011-002

In conclusion, in order to adequately provide full legal assistance and fulfill its current mandates as we move forward with the buildup of Guam, the Civil Division of the OAG needs eleven litigation lawyers, ten solicitor lawyers and a minimum staff of seven legal secretaries.

CHILD SUPPORT COMMENTS TO DEIS

The Child Support Enforcement Division (CSED) is a division within the Office of the Attorney General (OAG). The CSED provides the following services to custodial and non-custodial parents: locating absent parents; establishing paternity; establishing and enforcing orders for child support and medical support; reviewing and modifying court orders of support; enforcing support orders of other states; and collecting and distributing child support payments.

The CSED uses the following tools to enforce child support orders:

- · Automatic income withholding
- Intercepting federal and state income tax refunds
- · Requiring employers to report new hires
- Suspending driver's and occupational licenses
- Passport denial
- · Obtaining contempt of court orders
- Liens and levies on real and personal property

Guam and CNMI Military Relocation DEIS/OEIS

J-011-002

Thank you for your comment.

The EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

Office of the Attorney General Comments to DEIS Page 10 of 22

- · Credit bureau reporting
- Seizing bank accounts

The CSED has a total of 56 employees: 48 support staff and 8 attorneys. The CSED is divided into the following sections: Attorneys, Investigation (includes process officers), Records, Systems, State Disbursement Unit, Accounting, and Administrative Support.

The CSED has an active caseload of approximately 8,000 cases. We serve a total of approximately 7,969 custodial parents, 7,977 non-custodial parents, and 14,000 children. We process approximately 5,500 transactions (checks, EFT's, receipts) per month and disburse approximately \$1,065,000 in child support payments each month. CSED receives an average of 800 telephone calls daily and initiates an average of 400 calls daily to custodial and non-custodial parents, employers, and private attorneys. CSED averages 800 walk-in customers per month in addition to approximately 100 appointments. The Judicial Hearings Division of the Superior Court of Guam holds an average of 500 child support hearings per month. Each investigator and paralegal handles an average of 1,000 cases.

The Child Support Enforcement Division also provides, without charges or fees and at the request of the custodial or non-custodial parent, certifications to the Department of Public Health and Social Services, Guam Housing and Urban Renewal Authority, or financial institutions.

The Access & Visitation (A&V) Unit administered by CSED provides the important service of assisting non-custodial parents to gain access and visitation with their children. The A&V Unit refers non-custodial parents to Inafa Maolek or Erica's House for mediation, supervised or monitored visitation, parenting classes, or neutral drop-off and pick-up arrangements. The goal of A&V Unit is to improve non-custodial parents' access to and visitation with their children. Research has shown that parental contact is related to the payment of child support and that fathers' involvement improves children's development and self-esteem.

The CSED needs additional critical support staff and attorneys. In the last year, the CSED has experienced a turnover of employees. The vacant positions are slow to fill for several reasons: the hiring process is slow and bureaucratic, lack of qualified applicants, or salary is too low. Currently the CSED has a total of 56 employees: 48 support staff and 7 attorneys plus IV-D Director. The attorneys handle a full caseload with a majority of the cases being heard by the Referee of the Judicial Hearing Division (JHD) of the Superior Court. Some cases, however, are heard before the Judges of the Superior Court of Guam (SCOG). There are not enough attorneys to attend hearings at both the JHD and SCOG.

Also, the lack of support staff, mainly investigators and paralegals, has led to a lack of enforcement on some cases. A lack of enforcement of cases results in less collection of child support payments. Not enough support staff also means some child support orders

Office of the Attorney General Comments to DEIS Page 11 of 22

are not reviewed and adjusted every 3 years resulting in an outdated order which does not keep up with the current cost of living.

The CSED's computer system, also known as the Absent Parent Automated Systems Information (APASI), is in dire need of update and upgrade. It is a transfer system from the State of Texas which was implemented in 1996. Although APASI was fully certified as meeting PRWORA requirements on April 30, 2004, it still has program and database issues. These deficiencies have resulted in a case management backlog, management reporting difficulties, accounting issues, and an overall loss in productivity.

J-011-003

Guam is currently preparing for the military buildup. A review of the Draft EIS shows that the impact to the Child Support Program was not addressed. The estimated increase in population of both military and civilians due to the buildup will have a huge impact on the Child Support Program. According to the Draft EIS, 8,552 Marines and their 9,000 dependents are being relocated from Okinawa (Japan) to Guam. An additional 630 Army personnel and their 950 dependents will be relocated as part of the U.S. Army (Army) Air and Missile Defense Task Force (AMDTF). There is also a transient population of military personnel of about 9,222 who are expected to be in port up to 63 visit days per year with anticipated length of 21 days or less per visit. A fourth group composed of DoD civilian workforce is estimated to be at 1,836. The total proposed population increase is 30,190.

However, the estimated total population increase from off-island that would result from the military buildup is even higher when dependents of DoD civilian workforce and off-island workers and their dependents looking for jobs are taken into consideration.

Project-related construction work is expected to begin in 2010 and reach its peak in 2014. By 2014, the total increase in Guam residents from off-island would be an estimated 79,178 people. These numbers include active duty military and their dependents, civilian military workers and their dependents, off-island construction workers and their dependents, as well as off-island workers and their dependents looking for jobs on Guam.

After 2014, project-related construction and the associated influx of construction workers would decline rapidly because 2014 is the last year that any new construction would begin. By the time construction is completed and military operational spending reaches a steady state, the off-island population increase is projected to level off by 2020 to an estimated 33,608 persons, approximately 58% below the peak level. Table ES-2 of the Draft EIS, pg ES-7 Executive Summary.

2010	11,038
2011	27,835
2012	44,301
2013	52,575
2014	79,178
2015	64,918

Guam and CNMI Military Relocation DEIS/OEIS

J-011-003

Thank you for your comment. It should be noted that the approximate figure of 80,000 represents the maximal population increase over the existing baseline year. It occurs in 2014 when the construction workers from off-island are still there and the military and their dependents arrive. After 2014, the population from the proposed action decreases. By 2017, the increase population reflects the permanent military population, their dependents, civilian federal workers, and the induced (or indirect) population of about 33,000 people. Population density if averaged over the entire Guam land area is expected to increase as a result of the proposed action; however, population densities are likely to be greater in some areas (i.e., Finegayan) and lower in southern Guam. The data used in the analysis were derived from surveys and interviews performed in conjunction with the DEIS, and serve as a point-in-time indication of staffing levels. It is acknowledged that it is not possible for this analysis to capture all requirements of GovGuam agencies. It is expected that the Fiscal Impact Assessment, conducted by GovGuam consultants and funded by the Department of Defense Office of Economic Adjustment, will be able to more fully capture recent public service impacts, and provide a more detailed indication of fiscal impacts to GovGuam agencies.

Office of the Attorney General Comments to DEIS Page 12 of 22

2016	41,919
2017	33,431
2018	33,431
2019	33,608
2020	33,608

Guam's population as of July 2009 was estimated at 178,430. There are approximately 8,000 active child support cases. By the end of 2010, the population will increase by 11,038 to 189,468, a 6.19% increase. By the end of 2014, the peak year, the population will increase to 257,608, a 44.37% increase. At the steady state in 2020, the population is expected to taper off at 212,038, an 18.84% increase from 2009.

Year for	Population	Increase from 2009 pop	Current staff + add'l
			buildup
2009	178,430	N/A	56
2010	189,468	+6.19%	56 + 3
2011	206,265	+15.60%	56 + 8
2012	222,731	+24.83%	56 + 14
2013	231,005	+29.47%	56 + 17
2014	257,608	+44.37%	56 + 25
2015	243,348	+36.38%	56 + 20
2016	220,349	+23.49%	56 + 13
2017	211,861	+18.74%	56 + 10
2018	211,861	+18.74%	56 + 10
2019	212,038	+18.84%	56 + 11
2020	212,038	+18.84%	56 + 11

J-011-004

With the anticipated military buildup and increase in civilian contractors and off-island constructions workers and their dependents, the CSED will experience an increase in child support services to be provided and documents to be processed. In order to continue to offer the services it now provides and to prepare for the influx of active duty military and their dependents, civilian military workers and their dependents, off-island construction workers and their dependents as a result of the military buildup, the CSED will need increased staff and resources.

At the beginning of the military buildup in 2010, CSED will need an additional 3 employees (plus 56 currently on staff): 1 child support attorney, 1 child support investigator, and 1 legal clerk.

By the height of the military buildup in 2014, CSED will need an additional 25 employees (plus 56 currently on staff):

- · 4 child support attorneys to handle increased caseload
- · 4 child support paralegals

Guam and CNMI Military Relocation DEIS/OEIS

J-011-004

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

Office of the Attorney General Comments to DEIS Page 13 of 22

- · 4 child support investigators to handle increased caseload
- · 2 accounting technicians for State Disbursement Unit (SDU)
- · 2 accounting technicians for Accounting Section
- · 2 process servers to handle increase in service of process
- 2 legal secretary
- 2 legal clerks
- 1 telephone operator
- 1 messenger
- · 1 computer systems analyst

In addition, CSED will require the following infrastructural needs to accommodate the additional employees in 2014:

- 25 personal computers
- · 25 additional communication lines (DISN, T1 lines, telephone lines)
- 14 cubicles for investigators, accounting technicians, computer systems analyst
- · 25 desks and chairs
- 10 locked cabinets to store files containing federal tax information
- · 2 vehicles for process server

While the population is expected to decrease after the height of the military buildup in 2014 and hit a steady state by 2020, the child support caseload will not necessarily decrease. A child support case, once opened, remains open until a child reaches the age of majority. Therefore, even though the population decreases, the case will remain open and enforceable until the child reaches age 18. So long as a custodial parent and child or non-custodial parent lives here, Guam will continue to enforce the Order.

APASI computer system:

The CSED's APASI computer system is in a vulnerable state. Any further increase to CSED's caseload could cause the system to fail. With the anticipated increase in caseload due to the impending military buildup, CSED must update and upgrade its APASI computer system. The choices are staying with the existing system and designing a new system by evaluating other states' systems, considering a transfer system from another state, or selecting a hybrid system. A new system requires major processes and requires federal approval. The first phase is the Advance Planning Document (APD), followed by the Implementation APD, and full Implementation of a new system.

The total estimated cost of a new system is estimated at \$10 million. Examples of cost of other states' systems are: Hawaii \$50 million, Colorado \$40 million, and South Carolina \$93 million.

The CSED requires additional funding to continue its operations. This will allow us to continue to ensure that the children of Guam receive the financial assistance that they

Office of the Attorney General Comments to DEIS Page 14 of 22

deserve. With a full staff, the CSED will be able to enforce child support orders which will result in an increase in the collection of child support payments. This helps families become self-sufficient as well as puts money back into the general fund for those children who are receiving public assistance/welfare/TANF.

In addition, once APASI is upgraded and updated, this will result in increased productivity, reduced annual maintenance and operation charges, increased client access to information through a web interface, increased collections through online bill payments, and a comprehensive website which will allow for easy access by parties and employers to case information and new hire reporting by employers.

Funding Requirements:

All child support-related expenditures are subject to matching funds by the Federal Office of Child Support Enforcement at the rate of 66% against 34% local funds.

J-011-005

Despite making remarkable progress in CSED operations, the following issues have arisen requiring further follow-up:

- CSED needs a point of contact (preferably a JAG) with email and phone numbers.
- CSED needs assistance with service of process of military or civilian
 personnel on base, better cooperation among branches of service and
 CSED.
- CSED needs assistance in how to read a Leave and Earning Statement (LES), especially where there is extraordinary temporary pay or benefits involved, so we can accurately determine child support obligation.
- CSED needs accurate income information from reporting systems; more cooperation from the military in getting wage information.
- CSED needs assistance in getting children health insurance cards and agent letters for custodial parents (CPs) to get children on base for health care.
- CSED needs training on locate information for military personnel when they leave Guam.
- If there is a population increase of between 15-45% due to military buildup, then CSED should expect that we will have an increase in new cases by the same percentage or more.
- CSED needs to know what can we ask the military to do if non-custodial
 parents (NCPs) do not comply (they are bound by a code of conduct but at
 times the superior officers may not be aware of their bad behavior).

FAMILY DIVISION COMMENTS TO DEIS

The Family Division is a separate division within the Office of the Attorney General (OAG) that was re-established in 2007 by the current Attorney General. The Family

Guam and CNMI Military Relocation DEIS/OEIS

J-011-005

Thank you for your comment. Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in Volume 7 of the FEIS.

Office of the Attorney General Comments to DEIS Page 15 of 22

Division, which handles all matters pertaining to juveniles in our community, including Child Protective Services cases, was once merged with the Prosecution Division of the OAG. Due to concerns regarding the propriety of juvenile special proceedings and juvenile delinquency matters, as well as other matters that appeared before the Family Court of the Superior Court of Guam, being handled by prosecutors of adult offenders, and especially with regard to the delicate issues of confidentiality of juvenile adjudications, the Family Division now functions as a separate and distinct division apart from the Prosecution Division with staff designated solely to handle matters within the Family Division.

The Family Division is the smallest division of the OAG and is comprised of six (6) personnel, which includes four (4) attorneys, one (1) legal secretary, and one (1) legal clerk, but the division continues to rely upon the administrative and other resources of the Prosecution Division to fulfill its mandates as the Family Division lacks the adequate professional and support personnel needed given its significant workload and caseload.

The Family Division handles all matters relating to juveniles in our community including juvenile delinquency matters, which are cases involving juveniles who commit criminal acts that are non-drug and alcohol related, and drug and alcohol related cases. The Family Division also represents Child Protective Services in cases brought to court involving children that have been subjected to abuse and neglect by their parents or caretakers, as well as cases involving juveniles who are deemed "beyond control" of their parents or caretaker. In addition to handling juvenile court proceedings, the Family Division alsore-integrated the Pre-Adjudicatory Diversionary Program (PADP) in 2007. The PADP is a prevention program and unlike court cases, it is an informal process that allows for the Family Division attorneys to divert particular cases into the program, i.e., juveniles who are first-time offenders that have committed crimes deemed as petty misdemeanor offenses.

IMPACT STATEMENT:

For Budget Year 2010, the Family Division hopes to add to its staffing pattern necessary and critical positions in order to continue to effectively handle the juvenile issues and challenges that the division has faced in past years and continues to face. The Family Division would require the following additional staffing positions: one (1) Assistant Attorney General, Attorney II position; one (1) investigator position; one (1) legal secretary position; one (1) process server position; and one (1) paralegal position.

As in the previous years, the Family Division continues to maximize the handling and charging out of all juvenile matters. The number of juvenile delinquency cases filed by our division is dependant upon the number of police reports that are received by the OAG. For 2009, the Family Division filed a total 504 cases. This year, the Family Division received about 435 Guam Police Department reports. From those reports, the Family Division filed 466 juvenile cases, which includes 141 drug or alcohol related cases, 276 juvenile delinquency cases, and 49 beyond control cases. The Family Division

Office of the Attorney General Comments to DEIS Page 16 of 22

also filed 38 Petitions for Persons In Need of Services, which are cases that stem from the Child Protective Services Referrals, and deals with minors who have been abused or neglected. The Family Division was able to divert 15 juveniles into our Pre-Adjudicatory Diversionary Program.

The handling of juvenile proceedings/matters are fast paced and fast tracked as the laws provide for a much shorter time frame than what is provided in adult criminal cases, in so far as the charging and disposition of cases. This is due to the sensitive nature of juvenile matters, as well as the need to provide immediate attention and services to juveniles for rehabilitative purposes, prevention and to avoid recidivism. As a result, the Family Division attorneys and staff are challenged with the need to charge expeditiously and on a daily basis to ensure that the juvenile matters are brought before the Family Court judges in a timely manner and as quickly as possible.

In the past year, the Family Division encountered several tragic events that brought shock to our community. The Family Division was faced with handling the issues that were brought forth in addressing the death of a baby girl. Our division also dealt with providing services to the newborn baby that was left abandoned. In addition, the Family Division was faced with other cases that dealt with extreme and severe abuse and neglect of our children.

J-011-006

The number one priority of the Family Division is to ensure that our youth are provided with a safe and nurturing environment free from danger and harm. Aside from court cases, the Family Division has taken a very active approach in educating the community by providing countless presentations to schools, government and non-government agencies, and social/civic organizations, and participating in community outreach activities. These are just a few of the many preventive efforts made by the Family Division. The Family Division intends to engage in more prevention measures taken in order to educate the community about the crimes that occur on our island, recognition of the problems we face, and to stress the consequences that can occur as a result of, and most especially in light of, the significant population increase given the anticipated influx of military personnel and civilians in the upcoming years.

The Family Division continues to face many new challenges, and one recurring challenge that the OAG as a whole has faced throughout the years is the shortage of necessary and critical staff. As our island prepares for the influx of military and civilian personnel in the upcoming years, the Family Division continues to make strides in ensuring that we are equipped with the adequate amount of personnel to handle the rise in criminal activities that will occur as a result of the increase in population to our community. There is no question that our community will suffer a greater amount of criminal activity regardless of any type of preventive or mitigating measures. The Family Division hopes to increase its personnel to ensure that the division is adequately staffed in order to continue to provide diligent, quality and efficient services to our community.

Guam and CNMI Military Relocation DEIS/OEIS

J-011-006

Thank you for your comment. The EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

Public comments, such as yours, on the Draft EIS are an important part of the decision-making process. This information becomes part of the Final EIS and is evaluated when DoD prepares the Final EIS and issues a Record of Decision at the end of the National Environmental Policy Act (NEPA) process.

J-011-006

Based upon the Draft Environmental Impact Statement (DEIS), Socioeconomic Impact Assessment Study, prepared in November 2009, the estimated population increase from off-island that would result from the proposed military action would be about 78,178, which is the peak level. The report indicates that the peak year of population change will occur in the year 2014, since the peak in construction activities and expenditures coincides with the arrival of the Marines and their families in this year. However, a population increase is expected to begin in 2010 because of the need to bring in civilian poeple for project-related construction work in preparation of the Marines, and their families arrival is expected to begin during this year. The report states that in 2014, upon completion of the construction activities, the community should see a decline in the population build-up of about 58% below the peak level, which the report estimates that the population increase of 78,178 would drop to about 53,786 (less 30,209 construction hired civilians). (Table ES-1 of the DEIS).

The DEIS does not dispute that the build-up of military and civilian personnel will greatly impact the community in so far as a rise in criminal activity and serious social disorder is concerned. The "Socioeconomic Impact Assessment Study", Section 4.5.1 and Section 16.2.2.4 discuss the possible impact on crime and serious social disorder that will result from the military buildup during both the construction phase and the operations phases. The report indicates that there will be a rise in overall crime, which will include an increase in prostitution, an increase in sexual assaults, an increase in drug use and substance abuse and alcohol related offenses, an increase in crimes against women and children, and an increase in military-civilian fights.

Section 4.4.4 of the DEIS, Socioeconomic Impact Assessment Study, pertained to the "Public Safety Service Impact". This section provided an analysis on the impact that the military build-up and increased population would have to selected Government of Guam safety agencies to include the Guam Police Department, the Guam Fire Department, and the Guam Department of Youth Affairs. The report indicated that in calculating the figures, several key construction component assumptions were used in the analysis of impacts, as well as the source or rationale for these assumptions. The OAG believes that such assumptions noted in the report and outlined in Tables 4.4-52 and 4.4-53 should be applicable to an analysis of the OAG's need to increase its staffing pattern.

Table 4.4-54 Impact on Public Safety Service Population Summary (Unconstrained) indicates that the current population serviced by the Guam Police Department is 160,797, and that the department will service 100% of the population increase. The OAG is the only Government of Guam legal entity that services our island and the island's various government agencies. It can be assumed that the OAG, in general, will also service 100% of the population increase on the island, which would mean that the percentage increase for the OAG would be at about 49% during the peak year (2014) and then it would drop to about 21% after the construction related-projects have been completed thereafter.

Office of the Attorney General Comments to DEIS Page 18 of 22

J-011-007

More relevant to the Family Division are the proposed figures of the Guam Department of Youth Affairs (GDYA), as both the Family Division and the GDYA service youth, and all of the youth currently in custody at the GDYA are youth that have cases with the OAG or are confined as a result of an open case with the Family Division. Based on Tables 4.4-52 and Table 16.2-43, the ratio of GDYA Social Workers is 1:316. The report notes on Table 4.4-54 and Table 16.2-45 that the current service population of the GDYA is 24,987, and that in the peak year of 2014, GDYA will service an additional 10,547, which would result in about a 42% rise in the service population. The table reports that upon completion of the construction related-projects, the steady population would drop about 6,328, which would be a 25% increase in the service population. Bear in mind that the 2009 statistics provided by the OAG are current cases that were filed in 2009, and that the service population of the Family Division is higher than that number as this number does not include the prior cases filed in the previous years that remain open and active. This number also does not include the cases wherein the Family Division has intervened with the Courts to take action, such as Beyond Control cases filed by the Probation Office, and Petitions for Persons In Need of Services filed by other private attorneys appointed in court as Guardians Ad Litem in Truancy cases. The figures provided in the Tables for GDYA also do not include the number of cases that the Family Division handles with respect to its Child Protective Services cases, and therefore the service population of the Family Division will be a higher number than what is stated in the reports.

J-011-008

Tables 4.4-57 (unconstrained) and 4.4-68 (constrained) provide a break down by year as to the proposed population increase for the GDYA. Table 4.4-59 provides the required number of staffing increase resulting in the increased population, which indicates that GDYA by 2014 should have an increase in staffing pattern of about 33 personnel, which upon completion of the construction related-projects should drop to about 20 personnel. And finally, Table 4.4-63 shows a breakdown by year of the number of staff increase based on the population increase. Looking at the combined total impact, the chart provides that for year 2010 - 4 additional staff is necessary; year 2011 - 10 additional staff is necessary; year 2012 - 15 additional staff is necessary; year 2015 - 30 additional staff is necessary; year 2016 - 22 additional staff is necessary; year 2017 - 20 additional staff is necessary; year 2018 - 20 additional staff is necessary; year 2019 - 20 additional staff is necessary.

As a result of the increase in service population and the need for the OAG to require an increase in its staffing, the OAG and each of its divisions would also require additional office space and equipment (e.g., tables, chairs, office equipment, etc.). The current office space at the OAG is already a tight fit with its current staffing, and the need for a bigger office area will become critical to accommodate the additional staffing to avoid further overcrowding and inadequate space, which if left unaddressed would become a safety hazard concern.

Guam and CNMI Military Relocation DEIS/OEIS

J-011-007

Thank you for your comment. Please see response to the comment immediately above. The data used in the analysis were derived from surveys and interviews performed in conjunction with the DEIS, and serve as a point-in-time indication of staffing levels. It is acknowledged that it is not possible for this analysis to capture all requirements of GovGuam agencies. It is expected that the Fiscal Impact Assessment, conducted by GovGuam consultants and funded by the Department of Defense Office of Economic Adjustment, will be able to more fully capture recent public service fluctuations, and provide a more detailed indication of fiscal impacts especially to GovGuam agencies.

J-011-008

Thank you for your comment. Please see response the comments immediately above.

Office of the Attorney General Comments to DEIS Page 19 of 22

J-011-008

Based upon Table 4.4-54 and Table 16.2-45, which provide the current service population of the GDYA and the proposed increase in the service population as a result of the military buildup, it can be assumed that such projected percentages would equally apply to the Family Division. The table indicated that the service population would rise to about 42% during the peak time, and then drop to about 25% during the steady period. Based on those percentages, and the current staffing pattern of the Family Division, the number of additional staff required to ensure that services remain steady is about 3 additional staff, at the peak period, and then 2 additional staff during the steady period.

Additional staff will also be necessary for the Family Division with respect to cases wherein the Family Division provides legal representation to the Child Protective Services Agency in handling matters relating to abuse and neglected children. In this past year and currently, the Family Division has seen a rise in the number of Permanency Hearings brought relating to these matters. Unfortunately, the increase in the number of permanency and need to go into Permanency is not a good sign as to the economic status of some families on Guam. Permanency hearings mean that the reunification of children with their families can no longer occur, and it is designed to make determinations as to the permanent placement of children who have been displaced from their families as a result of the neglect or abuse, and as a result of the families failure to comply with the necessary service plans and treatments that would allow for reunification. This year, the Family Division is already working on about 6 permanency hearings, and expects that as the economy continues to suffer, these cases and hearings will increase.

Because the service population derived from the GDYA used by the Family Division only accounts for the juveniles within the delinquency system, it is not an accurate reflection of the service population of the Family Division. The figures do not account for services provided by the Family Division in cases wherein the Family Division represents the Child Protective Services Agency, in handling cases of abuse and neglected children. With that said, the Family Division can expect that the service population will be a greater number. In cases that address children who have been subjected to abuse and neglect, the Family Division services not only the children, but the family as a whole. It would be proper to assume that the service population may double from that which is provided by the GDYA requiring that an additional staff increase of 3 more would be required.

J-011-009

Based upon the DEIS report, the total number of new staff personnel that the Family Division would require as a result of the military buildup would be 6 - this figure does not include the investigators and victim advocates that have been assigned to Family Division, which would require an additional 2 positions- bringing the total number of required new personnel to 8. From this number, there should be three (3) additional attorneys, one (1) additional legal secretary, o (1) additional legal clerk, and one (1) additional process server. Aside from the current staff designated to the Family Division indicated that it has heavily relied upon the support and assistance of the Investigative Unit, as well as the Victim Witness Ayuda Services Unit (victim advocates) in performing the functions of the division. Because of the increase amount

Guam and CNMI Military Relocation DEIS/OEIS

J-011-009

Thank you for your comment. The data used in the analysis were derived from surveys and interviews performed in conjunction with the DEIS, and serve as a point-in-time indication of staffing levels for interviewed agencies. It is acknowledged that it is not possible for this analysis to capture all requirements of GovGuam agencies. It is expected that the Fiscal Impact Assessment, conducted by GovGuam consultants and funded by the Department of Defense Office of Economic Adjustment, will be able to more fully capture recent public service fluctuations, professional and support staff requirements, and provide a more detailed indication of fiscal impacts to GovGuam agencies.

Office of the Attorney General Comments to DEIS Page 20 of 22

J-011-009

of staff required in the Family Division, it is apparent that the use of Investigators and Victim Advocates will also increase with the increase in caseload. As a result, the Family Division will also require at least one (1) additional investigator position and one (1) additional victim advocate position to be designated to the Family Division.

PROGRAM BUDGET PLAN:

Funding for the Family Division will be used to offset personnel and operational costs in the upcoming fiscal years.

GOALS:

To vigorously represent the government in juvenile special proceedings, juvenile delinquency cases, and other matters before the Family Court of the Superior Court of Guam, as well as vigorously charge out all juvenile matters referred to the Office by the Guam Police Department and Child Protective Services;

To vigorously represent the Child Protective Services in child abuse and neglect cases brought before the Family Court of the Superior Court of Guam;

To adequately staff and fund personnel and provide training to juvenile staff to update their skills and knowledge;

To establish and consistently conduct community outreach activities and participation in educational and social meetings dealing with juvenile issues;

To establish outreach activities and other programs that are designed to prevent and minimize crimes committed by juveniles, as well as crimes that are committed against juveniles (i.e. child abuse and neglect); and

To promote legislation that will significantly impact juvenile activities and other matters relevant to the mandates of the Division.

OBJECTIVES:

Obtain adequate staffing of experienced attorneys and support staff, to include an investigator, school resource officer, victim advocate and administrative support staff, to service the particular mandates of the Division, especially because of the expected increase in criminal activity that will result from the population increase due to the military build-up in the upcoming years;

Develop and implement a case management tool to better track cases, dispositions, and other information and that will generate reports to assist the efficient and effective operations of the Family Division.

Office of the Attorney General Comments to DEIS Page 21 of 22

Develop and implement consistent outreach events designed to provide the community with information on juvenile issues and the prevention of juvenile offenses.

PROSECUTION DIVISION COMMENTS TO DEIS

The Attorney General of Guam is the sole Public Prosecutor for Guam with "cognizance over all matters pertaining to public prosecution, including the prosecution of any public officials" See 5 G.C.A. §30104.

Within the Office of the Attorney General is the Prosecution Division which is charged with the primary responsibility of prosecuting all adult felony, misdemeanor and traffic offenses referred by law enforcement authorities as well as those offenses independently investigated by the Prosecution Division. Among the types of cases independently investigated by the division are offenses such as white collar cases, government corruption and public integrity crimes. In addition, the division also handles all criminal appeals. In the course of prosecuting cases, the division maintains close collaboration with local and federal law enforcement officers and attorneys.

The Prosecution Division also provides criminal case disposition reports and clearances, to a myriad of local and federal agencies, employers and others (IRS, ABC board, armed forces recruiters, FBI, NCIS, OSI, etc.)

J-011-010

The Prosecution Division of the Office of the Attorney General (OAG) is currently staffed with 15 prosecutors, a support staff of 16, a victim's advocate unit with 9 advocates and 12 investigators. These numbers are inadequate to handle the existing number of cases referred by the various Law Enforcement agencies on Guam and will surely be inadequate to handle the anticipated increased caseload during and after the build-up.

In 2009, Guam's population has been conservatively estimated to be 154,805. In 2009, the Prosecution Division received 3,822 case referrals from those Law Enforcement agencies. During the same time period, the Prosecution Division was able to charge out 2,017 cases using its existing resources. A review of the Draft Socioeconomic Impact Assessment Study indicates that by 2014, a mere 5 years in the future, the island's population will have grown by more than 51% to 233,983. A look at the figures projected by the DEIS indicates that there will be an initial increase in calendar year 2010 of 11,038. Between December 2009 and the end of 2011 that number will have increased by 40% to 27,835. Another increase will bring that number to 44, 301 by the end of

Guam and CNMI Military Relocation DEIS/OEIS

J-011-010

Thank you for your comment. Please see the response to comments immediately above.

¹ The Prosecution Division received eases from the Guam Police Department, Guam Customs and Quarantine, the Conservation Officers of the Department of Agriculture, the Park Rangers Division of the Department of Parks and Recreation, the Guam Fire Department, the Guam International Airport Police Department, the Criminal Investigation Division and the Regulatory Compliance Divisions of the Department of Revenue and Taxation, the Department of Correction, the Department of Youth Affairs and the Guam Port Authority Police Department.

Office of the Attorney General Comments to DEIS Page 22 of 22

J-011-010

2012. Finally, before the end of the build-up, there will be an additional 79,178 persons added to the 2009 population bringing the total population in 2014 to 233,983.

Although I realize there is no "straight-line" correlation, it is still reasonable to assume that with each increase in population there will be a corresponding increase in the Prosecution Division's caseload. Therefore, in the first year, with a projected increase in population to 170,843 for a 9.4% increase, there will be a need to add one additional attorney, support staff, advocate and investigator to handle the increase in caseload attributable to the build-up. By the end of the second year (2011) there will be nearly 17,000 additional residents added to the current 154,805. This will require an additional prosecutor, investigator and staff person. By the height of the build-up in 2014, the island will experience a population of 79,148 and, using that projection, the Prosecution Division will be in need of 10 additional prosecutors, 8 additional investigators, 5 additional advocates and an additional 10 support staff.

An additional factor is the anticipated increase in the need for additional judges. The DEIS anticipates that there will one additional judge by 2012 and increasing to 3 additional judges by 2014 needed to service the increase in population attributable to the build-up. Those judges will have calendars which require the presence of prosecutors in each of those courts on a daily basis.

While in the years following the height of the build-up in 2014 the needs might decrease, they will never return to their pre 2010 levels. The DEIS estimates that in 2020 there will still be an increase of 33,608 residents on Guam over 2009 levels. Some of these positions created will be lost through attrition or absorption into locally funded positions. It is unlikely that there will be an excess of staff once the decrease in population directly attributable to the build-up begins.

The addition of the extra personnel is not without difficulty. At the present time, the Prosecution Division is housed on the 5th and 1st floors of the building housing the OAG. There is no space in the area allocated on either floor to house additional attorneys or investigators. There are no desks, computers, telephones, available for any additional staff beyond what exists today to support any additional personnel. All of this would have to be obtained to enable the Prosecution Division to function at an acceptable level. The costs to the Government of Guam will be substantial as the current salary range for an attorney is between \$42,000 and \$85,000, excluding benefits, while the costs for support staff, investigators and office equipment will also increase.

GHURA



Guam Housing and Urban Renewal Authority Aturidat Ginima' Yan Rimueban Siudat Guahan 117 Bien Venida Avenue, Sinajana, Guam 96910 Phone: (671) 477-9851 - Fax: (671) 300-7565 - TTY: (671) 472-3701



February 17, 2010

Joint Guam Program Office c/o Naval Facilities Engineering Command, Pacific Attn: Guam Program Management Office 258 Makalapa Drive, Suite 100 Pearl Harbor, Hawaii 96860

Re: Draft Environmental Impact Statement / Overseas Environmental Impact Statement (DEIS/OEIS) – Guam and Commonwealth of the Northern Marianas Islands (CNMI) Military Relocation.

Gentlemen:

Guam Housing & Urban Renewal Authority (GHURA), a Government of Guam Agency, serves the Territory of Guam residents, providing affordable housing through the various program sponsored by the U. S. Department of Housing and Urban Development (HUD). These include the Housing Choice Voucher (HCV) program and the Public Housing program. Additionally, our agency administers the Community Development Block Grant program (CDBG), the Housing Investment Partnership program, and is the designated finance agency to administer the Low-Income Housing Tax Credit program (LIHTC).

Our agency is submitting the attached comments on the Draft Environmental Impact Statement / Overseas Environmental Impact Statement (DEIS/OEIS) for the Guam & CNMI Military Relocation in compliance with the National Environmental Policy Act (NEPA), on the proposed actions.

On behalf of the U.S. Department of Defense, the Department of the Navy is proposing the following actions:

- Marine Corps. (a) Develop and construct facilities and infrastructure to support approximately 8,600 Marines and their 9,000 dependents relocated from Okinawa (Japan) to Guam. (b) Develop and construct facilities and infrastructure to support training and operations on Guam and Tinian (CNMI) for the relocated Marines.
- Navy. Construct a new deep-draft wharf with shoreline infrastructure Improvements creating the capability in Apra Harbor, Guam to support a transient nuclear powered aircraft carrier.
- Army. Develop facilities and infrastructure on Guam to support relocating approximately 600 military personnel and their 900 dependents to establish and operate an Army Air Missile Defense Task Force (AMDTF).

GHURA does not discriminate against persons with disabilities.

The Chief Planner has been designated as Section 504 Coordinator.

The Coordinator can be contacted at the above address and telephone numbers.



While we understand the purpose to relocate the U.S. Military forces is to meet international agreements, treaty requirements, and to fulfill U.S. national security policy in the Western Pacific Region, the proposed actions are far reaching. environmentally, economically, socially and culturally, to Guam and the neighboring islands in the region.

J-012-001

This past year, GHURA had sanctioned the Guam Comprehensive Housing Study 2009, to provide necessary information for the upcoming Military Relocation. The study was completed and released in August 2009 and provided the necessary information to assess, evaluate and forecast the housing market on Guam. Included with the study, is a dynamic, interactive Housing Model that can be used to generate forecast of housing need for Guam. While the focus was to study Guam's housing situation in general, the study considered and developed forecasts for the proposed military relocation and expansion on Guam. We strongly recommend the full application and inclusion of the Guam Comprehensive Housing Study 2009 into the DEIS for review, evaluation and implementation for the proposed actions and final conclusion and mitigation in the FEIS – Appendices. We have provided a copy of the Guam Comprehensive Housing Study 2009 for your review.

J-012-002

We are very concerned that the impacts of the upcoming Military relocation will have a dramatic effect on the civilian housing market. Moreover, proposed actions on the DEIS indicates no mitigation measures in relation to civilian housing market in both pre- and post-buildup period.

J-012-003

It is therefore imperative that the Department of Defense and the Navy fully address the risks and impacts of the Guam & CNMI Military relocation. We have reviewed the DEIS and have concluded that the statement is inadequate in its research, evaluation, and mitigating conclusions to fully address the implications of the proposed actions. The attached comments are intended to assist the Department of Defense with the development of the Final Environmental Impact Statement (FEIS) that will result in a NEPA decision document that adequately assesses the impacts associated with the U.S. Military relocation, and assures compliance with both the letter and spirit of NEPA.

Thank you for the opportunity to participate in the DEIS review process.

Sincerely,

Executive Director

J-012-001

Thank you for your comment. The GHURA study has been reviewed. The study does not apply assumptions that are similar to the parameters of the proposed action, which are identified in Volume 1, Chapter 2 of the DEIS. Since the study does not conform to the project description, it will not be included in the EIS.

J-012-002

Thank you for your comment. The Draft EIS anticipates that military housing would be built within the main cantonment area. It is anticipated that the majority of Marine families would rent units in the military housing and generally would not compete with Guam residents for available housing units. After the construction period, housing and rental prices could decline because the construction labor force (not including the H2B who will live in dormitory type quarters) would leave Guam. Civilian military workers may vie for Guam housing; however, residential housing needed for these long-term workers would likely be about 3,200 units (maximal) by 2020 (Socioeconomic Impact Assessment Study [SIAS], Table ES-3, page v).

J-012-003

Thank you for your comment. Your comments and participation are important in the EIS process of the proposed military relocation. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

DEIS REVIEW COMMENTS SHEET

			ol,	Chipt	Pi	Line Tol.	Common	(Sommonte) (last name)	Agency Org.
J-012	1	1		16	12		² As of the 2000 Census there were appoximately 48,000 housing units on Guam*. Current housing stack is 57,673 (Guam Comprehensive Housing Study 2009), a 9,673 difference in the number of units. The DBIs is using dated information that will understate findings. Recommend that housing data should be updated in the FEIs utilizing the Guam Comprehensive Housing Study 2009.	Villanueva, Caesar	GHURA
	2		ш	16	57		"During the operational phase, all marines and their dependents will be housed on base."; Is this a realistic evaluation by the military P Historic data indicates 20 - 24% military personnel opt for off- base housing. It his holds true, an additional 1,600 housing units are needed in housing stock for off-base housing. Otherwise, a strict mandate for military parsonnel should be enforced to reside on-base during the first 4 years (2010 - 2014) of the military relocation and then rescinded after the post-construction phase (2015 - 2020) when a housing surplus is projected.	Villanueva, Caesar	GHURA
	3			16	58		"Civilian housing demand and supply impacts were found to be significant";- No mitigation recommended or stated to address the civilian housing deficit. Housing market forces will not respond appropriately to <u>civilian housing demand</u> . This is a "Significant impact" that the DBS is deafeningly silent. It is a major concern that DoD has no mitigation response or recommendations for this "significant impact" not to be addressed by the proponents of these actions. We request DoD to provide information and data on similar proposed actions by the U.S. Military, and successful mitigation alternatives that are not stated in the DEIS.	Villanueva, Caesar	GHURA
	4			16		16. 2 -24	79,431 units needed by 2014. 2,559 by 2020. (Unsconstrained) compared to Vol. 5, Appendix F- SIAS page 6 Executive Summary Indicates 11,893 units needed. 3,205 by 2020. *These discrependes appear throughout the document. Recommend that housing data should be updated in the FEIS utiliting the Guam Comprehensive Mousing Study 2009.	Villanueva, Caesar	GHURA
	5			ES	ES-6	Tbl. ES-2	2014 - 16,988 Indirect/Induced off-island workers (non-DoD). With the DEIS indicating that housing units needed are either 9,431 or 11,893 (SIAS) respectively, the number of units should reflect a similar amount of units needed by the inmigrating off-island workers who will be seeking civilian housing units.	Duenas, Mike	GHURA

Thank you for your comment. The current information was not available to meet the deadline for the completion of the DEIS. The FEIS has been revised to reflect the newest information on housing units on Guam.

The discrepancy you note is because Volume 2 only represents impacts from the Marine action while Appendix F (the Socioeconomic Impact Assessment Study [SIAS]) considers all actions to include Army, Navy and other related actions.

The DEIS anticipates that military housing would be built within the main cantonment area. It is anticipated that the majority of Marine families would rent units in the military housing and generally would not compete with Guam residents for available housing units. After the construction period, housing and rental prices could decline because the construction labor force (not including the H2B who will live in dormitory type quarters) would leave Guam. Civilian military workers may vie for Guam housing; however, residential housing needed for these long-term workers would likely be about 3,200 units (maximal) by 2020 (SIAS, Table ES-3, page v).During the DEIS a number of mitigation measures were recommended; an expanded discussion on mitigation measures has been provided in the FEIS.

DEIS REVIEW COMMENTS SHEET

J-012-	6	5	х	Ap. F		"Limited Housing for New Workers" - Housing for H-2B may be provided "by law" but it is not mandated that foreign workers are required to reside in designated "workforce housing" sites. 2.2.4.2 by the state of the crede outside "workforce housing" sites will agreewate an already stressed housing supply shortage (i.e., affordable housing). DOD contractors should include in their employee agreements that upon hire, employees will reside at a designated workforce housing site provided by the contractor/employer.	Villanueva, Caesar	GHURA
	7		-	16	57	"Ouring the operational phase, all marines and their dependents will be housed on base," Verification is needed with this statement. Living in Hawaii, I experienced rental increases from \$800. to \$1,400. a month due to military personnel using their housing allowances to rent off-base, which forced me to move and rent a unit owned by my relative. If it wasn't for my relative, I would be homeless.	Cobb, Daniel	CLIG (CMTF)
-	8		×	4	22	*DoD would rely on construction contractors, who have significant expertise in areas of workforce housing and logistics, to support temporary foreign worker housing requirements.* - Adequate funding for DoD contractors should be provided by DoD to incorporate cost for workforce housing. Additionally, developers of workforce housing and the accompanying facilities must provide competitive and affordable pricing to the DoD contractors to house HZB workers, Otherwise, alternative options (L.e., apartment units & complexes, Housing rentals) will be considered by the DoD contractor, which will aggrevate a stressed housing supply shortage.	Villanueva, Caesar	GHURA
	9		×	App. F; Ch.4	20	"It is unlikely that construction of new housing will fully respond to the demand to eliminate the housing deficit." - This statement reflects a major concern regarding the proposed actions on the OBIS. A housing shortpage is forecasted during the first 4 years of the proposed actions (2010 - 2014). This will have a dramatic effect on affordable housing, four-income families, and the recipients of the services our agency provides. "The unmet demand, even among GHURA's low and moderate-income families will be very high during the buildup phase as new residents arrive and vie for housing at the lower and middle levels of the market' (Guan Comprehensive Housing Study 2009 - page 58) We recommend the timelines of the proposed actions be extended to an additional (4) years to allow market forces to react accordingly with gradual and sustained development.	Villanueva, Caesar	GHURA

Thank you for your comments. Many of your specific comments on housing have been addressed in our responses to your earlier comments.

Workforce housing would be provided by the contractors as described in Volume 2, Chapter 16, "Socioeconomics and General Services." DoD would not provide workforce housing, but design/construction contracts would require the contractor to accommodate the workforce in accordance with specified health and safety standards. Various proposals are being developed by potential contractors in anticipation of winning a contract. The timing and location are unknown for construction and/or renovation of housing to accommodate the construction workforce, but it is possible that some of the workforce housing projects would begin independently of DoD's Record of Decision.

There are no plans to allow contractors to locate workforce housing on DoD-controlled land. Therefore, it is anticipated that should workforce housing needs require the construction of new housing, such workforce housing would be located on either private or Government of Guam lands. In either instance Guam officials would control the underlying land use and permit decisions associated with the siting of such housing. DoD would work with Government of Guam land use and natural resource officials to identify any contractor plans or efforts to construct workforce housing and DOD shall ensure that contractors are informed of their responsibilities to comply with Government of Guam land use restrictions. In particular, the Guam Land Use Commission recently issued GLUC 2009-1 which specifically addresses the issue of zoning for workforce housing.

The provision of worker housing will be part of the selection criteria for contractor proposals to DoD.

DEIS REVIEW COMMENTS SHEET

J-012-006	×	App. F; Ch.4	21	"If sufficient housing is not supplied, this could lead to: Crowding of housing (more persons per unit); Construction of illegal (non-permitted)housing; illegal rentals; Homelessness As Indicated in the SAS (Vol.X), App.F; (pht. 4); pp. 20), suffineth housing will be not be supplied, herefore the aforementioned conditions will be in place. We request DoD to support our efforts for additional funding from HID to provide for community development projects and affordable housing programs to prepare for effects the proposed actions of the military relocation and buildup will bring to the region in relation to the socioeconomic impacts and housing.	Väliansieva, Caesar	GHURA
11	x	App. F; Ch.4	20	"During the construction period, since large amounts of materials will be used for military base construction, building materials for other projects such as civilian housing will be in short supply," "Labor supply is also expected to be an issue. The requirement for construction workers to build civilian housing is an increment above and beyond labor demands." - The cost to build, purchase, or rent housing units will dramatically increase due to unmet demand in housing stock. Additionally, competition between contractors to hire and/or retain a workforce as well as a hortage in raw building materials (i.e., aggregate, cament, etc.,) will contribute to cost increases. Low to moderate-income families will not be able to afford to build, purchase, or rent a home. Timelines expressed on the proposed actions should be reconsidered and adjusted to alleviate the stress caused by a compressed (4) year buildup/construction period (2010 - 2014). An additional 3 to 4 years for the proposed buildup will reduce the immediate need for civilian housing, the availability of a large, skilled, fabor force as well as raw building materials. The housing market will also respond and adjust accordingly with gradual and sustained development.	Villanueva, Caesar	GHURA
12	×	App. F; Ch.4	11	The average FTE salary for jobs related to the military operation phase (\$40,000) can be compared to the 2007 Guam FTE salary of \$28,150." The difference in FTE salary in civilian military jobs compared to Guam FTE will cause a migration of employees from local employment to civil service employment. The DEIS indicates Guam residents to capture approximately 3200-2700 (unconstrained scenario) civil service jobs during and after the construction phase. The Government of Guam as well as local employers are expected to realize a loss in skilled, qualified workforce to civil service employment. To address the possibility of the loss of existing staff, GHURA will pursues future employment of skilled, qualified, post employees that have retired or have pursued other employment opportunities and desire to return to Government of Guam service.	Pinaula, Senny	GHURA

Thank you for your comments and recommended mitigation measures. The DoD construction on Guam could affect the availability and cost of building supplies for other developments. This is dependent on the amount of materials that can be brought in and processed by the Port, the demand for building materials and labor, and many other factors. Also, the demand for labor, especially construction workers and skilled workers typically results in higher wages being paid. The FEIS has been revised to discuss these issues.

The Joint Guam Program Office (JGPO) has been working with and will continue to work with local and federal agencies to determine where funding can be supported. This has been and will continue to be an ongoing process and is exacerbated by the current worldwide economic crises. It is noted that, DoD funds are focused on the military and defense needs of the U.S., so JGPO may find that other funding alternatives must also be put into place to avoid and/or minimize impacts to the government of Guam. Where possible and appropriate, JGPO and/or DoD will support grants, loans, and other funds that focuses on improvements that are within the objectives of the sponsoring federal agency.

DEIS REVIEW COMMENTS SHEET

J-012-007	0	16	13	16. 1-16	"2000 Census Housing Characteristics for Guam by Municipatillies and Region." - The subject move for the small size of the Island of Guam to use 10 years old Information to make sound decision and/or picture of Guam's economyle environment. This military buildup on Guam will bring both negative and positive socioeconomic impacts not only for Guam, but also for its small mighboring island nations, hence, a very careful planning process is in high demand, lagree with those requesting the push back of reviewing. Commenting period of the EIS/OEIS documents. I would also want the the leaders to make a case for Guam to rush up the result of the needed housing and population information from the 2010 Housing & Population Census to be used to replace the 10 years old information nucled in the EIS/OEIS documents. The 2010 Census information must establish a yearly update on needed housing and planning brocess.	Tim Semuda	BSP (CMTF)
14	1	ξS	ES-3	ES-2	"ES-2 OVERARCHING PURPOSE AND NEED" - "The need for the proposed actions is to meet the following criteria based on U.S. policy, international agreements, and treaties: a) Policino U.S. forces to defend the homeland including the U.S. Pacific territories." - With the proposed actions by DoD and the Navy, the territory of Guarn and the neighboring islands will be considered a primary target for foreign military aggression. Although the BCIS proposed actions include an AMDTE (Army Alf Missle Defense Task Force), the document in current form does not address any civil defense plans with the local government, as well as the development and construction of "hardened fallout shelters" in the event of nuclear attack. Unlike the U.S. mainland, the geographical location and limited land mass of a Pacific island precludes any sort of evacuation or relocation to "harbors of safety or safe havens". The U.S. Government and its military has a moral obligation to develop and provide Emergency evacuation plans and facilities for the general public and its' citizens to address the possibility of nuclear conflict/confrontation in the region.	Benny Pinaula	GHURA
15	ı	16	12	1.4.2	Housing Supply and Characteristics - "As of the 2000 Census there were approximately 48,000 housing units on Guarn." The DTIS source material is dated and obsolete. Utilizing the 2000 Census as a reference of information is not a true accessment of the current housing market. The Guarn Comprehensive Housing Study 2009 was completed last year and provides the most current information on housing demands, trends and forecast for the housing market on Guarn. We strongly recommend that the proponents of the DEIS, to fully incorporate the Guarn Comprehensive Housing Study 2009 into the DEIS to insure current and accurate assessment of the proposed actions. and provide proper evaluation and mitigation in the FEIS.	Benny Pinaula	GHURA

Thank you for your comment. The DoD carefully considered all requests to extend the length of the comment period beyond the 45-day minimum required by NEPA. In evaluating multiple options, DoD leadership determined that a 90-day comment period best balanced the need for sufficient time to review a complex document with the requirement to reach a timely decision regarding the proposed military buildup on Guam.

The most recent, available Census data is from the year 2000. The Final EIS has been updated to include some information from the 2009 Guam Comprehensive Housing Study.

It is noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts.

			As of February 15, 2010	
VOL 8	OO1- CHAPTER	2.2.4.2	DEIS INTENT Navel Munitions Site Access Road Alternative will require R/W acquisition (#300") Ref: Alternative A =	DEMPLAYMING DIVISION'S ASSESSMENT OF POTENTIAL EFFECTS ON LAND USE loss of outbard that idea to guided bearier appears to violate local law regarding blockings of RWIs, assement Traditional Rights-of-Ways, ways, etc.
	-	-	in reference to Aft B wherein hiding trail will not be improved	If gared the effect is the same as above.
013-0	002			information not specified as to whether GovGuam lands or private lands are being considered. If GovGuam lands, approver must be via legislation; Additionally, If CovGuam lands, are lands 'registered' or unrecisitered.
013-0	003	2.6	Would increase demands on power, potable water and wasternator utilities - proposed antion would affect the remaining life of the Solid Waste Facilities on Guarn	To what extent and how soon? to another kindfill powderst, i.e., at Atlantano? Any new landfill if on GovGuan or private pamelr(s) must first reviewed by the Land Use Commission
013-0	004	2.7		impact on groundwater and northern aguiter. Table 2.7.5 shows potential for 22 new water wells under Alternative 1.8.31 now water wells under Alternative 2 = housever, no specific location identified, and water spids is questionable (is 8 the people of Guern?) What ride does GWA have? Will GovGuern be a custome to use these new water wells?
013-0	005		Reference Table 2.7.2 Refurbish NDWWTF	Is GovGusin or in the current situation the private developer meponsible for such returbishment? Is the NDWWTF capable of accommodating the population increase given the fact that most major private development have been allowed to continue based on usage of this transment facility? If the military were is constant event lines to the NDWWTF, will private development be able to benefit?
		i	Reference Table 2.7.5 - Construction of sewer times from Barrigada to the NOWWTF	Additional easements required? And if yes, is it on GovGuam or private lands? Are private individuals or developers allowed to use new lines?
-013-0	006		 7.1.4 - Construction Flequinements - Per ElS, construction debrits not recycled would be directed to GEPA approved landfills 	Layon is the only landfit that will be in operation. Where are these GEPA approved landfile to be located? GLUC approval to required prior to uso.
-013-0	007		Reference Yable 2.7.6 ligts Primary Locations of Roadway Wildening Project Construction	Table Bets 8 major projects all being central to north. No mention or consideration on 2-major arterial RAVe (Parcel J and K) abuting Route 3 and limiting with Beach Road planned to be used or at least considered to improvement since it is strategically located in the major construction and vehicular traffic areas of operation
-013-0	008		Reference 2.7.1.6 - Work Force Housing - states that there are 17 previously used H 29 incursing lacities in You, Dededo, Tamanho, Aguit, Berngada and Yona Luther states that those could be completed for refurbibiliting an re-approved	Inter 61U.C Resolving Ms. 0x80:00.1 WHIF are sety allowed in an "M* Zone and under a permitted Conditional Use Preside which heights Lead the Commission review and approximation." These was 12 existing and approved TWH-F-d causards is to becrease or any tree modificational-hanges articipated for these focilities, responsed by the Land Use Commission in remarkation; (The proposed Tweno-Yalipa Apartment comprise, which in 2009 was being subjected unter TWH-F evels be set sold with no authorization by the purvises owner to convey "application permit and proposed removable haiding plans" to the new covers Shore the Zoning designation of the complex is "PUC" any proposed TWH-F in most unless zone of Adamption and Twy Invaries to be subjected to Land Use [Jab of Commermistry bermuch in Types is a challenge and may have to be subjected to Land Use [Jab of Commermistry bermuch in Types is a challenge and may have to be subjected to Land Use [Jab of Commermistry bermuch in Types is a challenge and may have to be subjected to Land Use [Jab of Commermistry bermuch in Types is a challenge for the Commermistry of the Missed of Land Use [Jab of Commermistry bermuch in Types is a challenge for the Commermistry of the Missed of Land Use [Jab of Commermistry bermuch in Types is a challenge for the Commermistry of the Missed of Land Use [Jab of Commermistry bermuch in Types is a challenge for the Commermistry of the Missed of Land Use [Jab of Commermistry bermuch in Types is a challenge for the Commermistry of the Commermist

SOVERNMENT OF GUAL DEPARTMENT OF LAND MANAGEMEN

J-013-001

Thank you for your comment. DoD understands and recognizes the significance of access to cultural sites located on DoD property in Guam. Restricting access to certain areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to Mt. Jumullong Manglo (including the Mt. Lam Lam trail) consistent with safety and operational requirements. Final plans concerning access to Mt. Jumullong Manglo (as accessed by the Mt. Lam Lam trail) have not been developed, DoD looks forward to working with stakeholders including groups that use the area for traditional religious activities to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of this site.

J-013-002

Thank you for your comment. Information regarding the proposed land parcels were available in the Land and Submerged Land Use chapters of the DEIS. Additional information on the proposed non-DoD lands that are being considered for acquisition has been provided in the FEIS. DoD was required to determine whether military relocation requirements could be met by excess, underutilized or otherwise available property held by DoD on Guam. Early development plans attempted to keep all activities on existing DoD lands. However, as discussed in the FEIS (Volume 2, Chapter 2), after applying operational and environmental screening criteria, no contiguous DoD area on Guam was identified that could support all the land use and operational requirements of the action.

Should DoD determine that additional land is necessary to meet its requirements, DoD policy requires that it negotiate with affected public and private land owners in good faith, seek agreements to acquire desired lands interests and pay fair market value. Where circumstances exist that require resolution of issues such as ownership or value,

J-013-009 J-013-010	2 2,7.2.1	2.7.2.1 - Aggregate Requirements - IRANSPORTAI(OI) - state that there are 4-shorfrom which Coral aggregate can be gathered. 2.7.2.1 - STOCKHUNG - state that several areas maybe available such as Harmon Industrial Park and currently undeveloped areas in Yipo and Declaros.	DATE PLANTING OVERION'S ASSESSIBLENT ON POTENTIAL EFFECTS OF LAND USE. If there are new risks, it would be considered as "Mining"Custor" operations that will enquire Land Use Commission review and improval. Underweigned American cell information of the and included the Commission review and improval. If the of Access to Inform allow-noise generalizes from vehicular and heavy equipment operations-potential for full talasi into the original conforma qualifier.
J-013-011	3 327	has footgerrid in the Fringglayan Fieldage overlap-tow as 599 acres to a high of 1,105 acres	While a link of the roomal land usine leave as it is pertained to motive before the Guarn Land Use Commission's toxicated sea, it is now larger from Use Physiol sease. In the prospective of the Oecement as a whole and its private circles constitutes, it is local and rather bias that this it. This A Wildlist would great the millian use of certain accesses within a fertige which depring the Jinepace Landowness a great of an "unstractived coops read" eacement to their land color proportion brough the ribdient redge. This absoration gip where February while the semistrated or over a decade, in on more. As the years in the factor redge, in this strategier of Chemorova's accord hand attentable was made to provide an access road in AAPLE Whole was profused and interpretation of the proportion
J-013-012	3.2.3	Barrigada as containing @250 acres 8. Air Force Barrigada @ 400 acres and both have a sile commonetty in that while both are separated yet both abut the Nevy Golf Course;	not impact the taking of GovGuam or private lands
J-013-013	3.2.5.1	Addresses Training Plange Coniglez (Alternative A - Proformo)	This alternative identifies proposed site location as East of Anderson South on Non DOO Land - In SEAST, Unknown as to whether the acquisition or bessed is GOV/MM of PRINATE Lands and It fands are legislated lands or not, in either case, the <u>USES</u> , as a Fifting Range is not an outsight permitted or permitted conditional use under our local Zonage (unit A. <u>USEV AUGINEE</u>) made to delained from the Casan Land Use Cometescion. Additionally, if but I have often, how long will it be in operation; and to what a cabel will it affect adjacent proporty owner?
J-013-014	3.2.5	Addresses Training Range Complex (Albimative A - Preferred)	This abtenuitive would require realignment of a 1.7 mile stretch of Room 15, <u>MRACTS</u> IS GOVGUMM is the conner of Route 15, then cooppression for exequisition of the 1.7 mile steel formula to followed frincipals, Additionally, the current desires of the Guara Legislation is that it no GOVGUMM cands be conclemed and an such, the acquisition of the 1.7 mile sheeth of mile of contribute with the current passage of the Legislation's reaction that the Millary countee is "Good Faith" approach in find scopel-from and usage.

SOVERNMENT OF GUAN-DEPARTMENT OF LAND MANAGEMENT procedures exist under eminent domain authority to resolve those questions. Eminent domain requires reimbursement at fair market value.

J-013-003

Thank you for your comment. Please refer to Volume 6 chapters 2 and 3 for discussions on estimated solid waste generation from the proposed action and the estimated impact on the life of the new Gov Guam Layon Landfill.

J-013-004

Thank you for your comment. Potable water utility is discussed in detail in Volume 6 chapters 2 and 3. The expected location for the proposed wells is provided in Volume 6. These additional wells would be operated by DoD. The EIS does not discuss water rights issues as those are very involved and legally technical issues best left to the lawyers and courts. However, any new wells would be approved and permitted by GWA and GEPA. DoD is coordinating fully with GWA.

J-013-005

Thank you for your comment. Subsequent to issuing the DEIS, DoD and Guam Waterworks Authority (GWA) reached agreement in principle to establish a special private entity (SPE). This SPE would obtain a loan arranged by DoD to upgrade the North District Wastewater Treatment Plant (NDWWTP). The SPE would also operate the plant and pay back the loan with user fees. The DoD would pay user fees established by a customer service agreement with GWA that would enable the SPE to repay the loan. Future upgrades to add secondary treatment to the NDWWTP, if required, would be funded by the users based on their percentage of demand. The DoD would be one of the highest users would bear their fair share of that upgrade. This will be stated in the final EIS.

VOL REVIEWER	HAPTER SECTION	DEIS INTENT	DUM PLANNING DIVISION'S ASSESSMENT ON POTENTIAL EFFECTS ON LAND USE
J-013-015	3 3251	Podestas Heing Prings Company (Communication)	If this 1.7 mile cords his acquired, plane further calls for a major raid construction activity. Proposed plane will require that here wellighted could be pended at 1.7 feeth below existing considers. It is understood that a detailed ASE plan is not incurred at this point in term, yet, there could have been a conceptual plan or proposed actives an temp provide for transplant measures such as the effects on exploser from 50°CM brook, polarized brooks. In this proposed active and the proposed active of the construction of the proposed active of th
J-013-016	325.2	Nieval Munitions Site (Attenuitée A. Preferred) - Peoposes to use the existing suil at A miles long totaling, 8 acres of land that would be improved at 16 Feet wide	IMPLACT. The type of improvement was not specified, e.g., paived, concrete, corel base compareds, etc. Pitter ash ocal to search of a "LAMANNED LOCKSED DAIL". This implies that there will be "Pitter ash ocal to search of a "LAMANNED LOCKSED DAIL". This implies that there will be "Pitter ash ocal to search of the control of the contro
J-013-017	3.4.2	Army Air and Misselle Defense Tasik Porce	Fer LESS, PSQs/Housing, The preferred Alternative is Alternative 1 all boards at NOTS-HEARtouring, Alternative 2 proposes the HEARtouring be located at Rwy Bergrads (not the preferred Alternative), IBPACET, Alternative 2 appears to be more appropriate given the fact that like organizations exists (AFING and UBAR) both Amy Organizations, The AMOTE is a compatible organization (Amy). The colocation of like organizations can be beneficial for the AFING and USARI units and vice versa is turned of charling and conducting new testics and market proportiestics, coordination and integrated in static degrees, and units, entering of irrelations, also or Usari and Amy Units are in typical of current situation, e.g., DODGE and DOSE decentrical strategy. Also
J-013-018	3252	Amenurition Storage Site (NMS Pireferred Alternative)-Parsone Road	The perpusals under After rathers 1.5 2 are similar but failed to merition the total invessor of expelvives for both what is existing and what the additional tomage is for example, the polarisal invessor generate from 500,0000 to 500,000 bets however, the existing formage was not identified as well as the 150 per, e.g., is sall high expelvate, in the potential demoster both consists of each must be sent and or the provided. The impact while the INNA location is not ediperant to housing (both millary and collections by the sent of the cell (fee diseases in becomes a) and the question it. What effects, if any, would it have on private property and landowners, should the corporates at the location is not ediperant by the control of the cell (fee, if any, would it have on private property and landowners, should the corporates at the landowners.
J-013-026	3.5.6	Ampace - States that disking terminal High Attack Area Deleninal (HAAD) radar operations, there is potential legislation inflatory and voltain shrotal A Special Use Airspace) to be reserved over northwest coast of Guam	JAPACE: An Eccal civilian alreids operation for fixed and retary viring (helicopters) alreids the informed of checkfluids operation. With valval yearing the betailty entitled at all times from they give and out of private properties becarded at Janupsan? by these radies replament therefore, what effects does it have on land use of private properties at the base of the citif and on private landowners? How far is its propagation emissions?
J-013-021	3.8.1	Power - Figure 3.6.1-4/tillins	A proposal Prover gratem contion is identified strong Harmon Loop Road_BEPACT_Location appears to be not GevGdaum their dynap in ord specific, but base on the "Stern designation, surjectly, business propersis in may be near the Filen market; or on the Soccer Field; and may be on CLTC land. Again, if built, what effects will have on adjacent proporties, businessees, and tendormers. If to built in this area, Guam Land Use Commission approval is needed.

GOVERNMENT OF GUA DEPARTMENT OF UNID MANAGEME The proposed DoD relief sewer from Finegayan (preferred cantonment Alternative 2) to NDWWTP would be sized for the DoD flow. If private development is initiated along this route, DoD would cooperate with the needs of this development in sizing and installing the proposed sewer.

Regarding capacity of the NDWWTP, please refer to Volume 6, chapters 2 and 3 for a detailed discussion of the capacity of the plant.

J-013-006

Thank you for your comment. Please refer to Volume 6 chapters 2 and 3 for a detailed discussion of solid waste. The new Layon Landfill is not permitted to accept construction and demolition waste. Reuse or recycling of as much of this waste as possible would be done. In addition, the Navy landfill at Apra Harbor would still have capacity and there are several private "hardfills" on island that could be utilized for appropriate construction and demolition waste.

J-013-007

Thank you for your comment. Roadway widening projects were identified to address anticipated congestion levels on major roadways.

J-013-008

Thank you for your comment. The Final EIS Section 2.7.1.6 clarifies that properties proposed for workforce housing must meet the zoning and a conditional use permit requirements.

J-013-009

Thank you for your comment. DoD would obtain all the local approvals needed for the implementation of the proposed military relocation program.

J-013-02		CHAPTEH 3	3.6.1.5	Tona (ton)	DAIL PLANNING DIVISIONS, ASSESSMENT ON POTENTIAL EFFECTS OR LIND USE 12 AND PLANT USE 12 AND PLANT USE 13 AND PLANT USE 13 AND PLANT USE 14 AN
VOL REVIE		CHAPTER 1	SECTION	DEIS WITENT Purpose and need for action	DUM PLANNING DIVISION'S ASSESSMENT ON POTENTIAL EFFECTS ON LAND USE DOCUMENT IN THE PROPERTY OF THE PROPERTY O
—	-	2		Proposed action & alternatives	Document Identification - N/A
	-	3		Geological / Soft Resources	Resource Identification - N/A
-	_	4		Water Resources	Resource Identification - N/A
J-013-02	31	. 5		Air Quality	Recourse identification - further identifica air quality imposes due to Martine activities in Yourne 7. High tenerally uses in include by first, are combativitaged, and ground nonversels will generate auditantial increases notes, changes to air quality, and quality use of air space. This could serve as a determining feator when consider further lend use glanning for adjacent and surrounding properties.
J-013-02	4	6		Noise	Recourse locatification. Further identifies air quality imposts due to Matthes activities in Volume 7. High intensity uses to include for the uniconsiderated increases notes, changes to air quality, and quality use of air space. This could serve as a determining feator when consider intrus shart use planning for editional and surrounding properties.
J-013-02!	5	7		Air Speca	Resource Identification - further intertifies are risquisity impacted due to Makines advisitées in Volume 7. High internity trates to include limit tire, air combabilitypoint, and ground nonvenents with generate audistratifiel increases noise, changes to air quality, and quality use of air space. This could serve as a determining faceto when consider future lead use planning for adjourned and surrounding properties.
J-013-020	6	9		Recreational Resources	Islandillas off-base and of-base monatorial tradition that are open to the public or restricted to Installation personnel and question of, respectively. Delli siderillise in the extention of public access to Pregat Charles when military tokenover of surrounding lands for firm fee traking admitted, impacts include the base of the historichecontational late for the general public. No mitigation appears available, Anhiphated usage of mon- DOD lands by military personnel, continutions, and dependents should re-effect expension and improvement planning efficiate for reventances facilities (both histant and nameradis).
J-013-02	7	12	-	Cultural Resources	Historic Properties in the Area of Potential Effect (APE) DLM differs to DPR-HPO. Otherwise, land use and development in or within areas of APE concern shall require appropriate building porner review and consciousnic intrough the DPR.
J-013-02	8	10	19.2.2.2		increase in need for low-cost housing may trigger subsequent increase in federal low-cost housing programs. The may ultimately lead to increased demand for government lands for subdivision development purposes ponce existing policin housing auditor have been editested.
J-013-029	9	19		DES identifies potential traffic increases to Route 3, Route 10 North of Route 32 to Route 6, Route 16 at bis intersection with Route 10, Route 10, Route 25, 26, and 28, development of these throughways to accommodate anticipated traffic increases.	Subsequent realignment of adjacent property subdivisions and re-assessments of zoning designation from predominant real agricultural to more higher interruly uses self-otherly conductive to analogated increase in Intiffic operation.

GOVERNMENT OF GUAN-DEPARTMENT OF LAND MANAGEMENT Page 4 of 8

J-013-010

Thank you for your comment. DoD intends to maximize use of the sites proosed for development as staging and stockpile areas. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short-term impacts of construction are managed effectively and that the long-term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

J-013-011

Thank you for your comment. The issues raised in your comment are important; however, they are not part of the proposed military relocation program and are not included in this EIS.

J-013-012

Thank you for your comment. DoD was required to determine whether military relocation requirements could be met by excess, underutilized, or otherwise available property held by DoD on Guam. Early development plans attempted to keep all activities on existing DoD lands. However, as discussed in the FEIS (Volume 2, Chapter 2), after applying operational and environmental screening criteria, no contiguous DoD area on Guam was identified that could support all the land use and operational requirements of the action. The Navy golf course was not addressed in the alternatives analysis because it is not large enough to make an appreciable difference in the amount of land required for the main cantonment. It is the firing ranges that require most of the land proposed for acquisition and the golf course does not provide sufficient acreage.

J-013-013

Thank you for your comment. The land acquired for training ranges would not be subject to GovGuam zoning laws. The ranges would

EMPH 1	REVIEWER	CHADTER	SECTION	DEIS INTENT	DLM PLANNING DIVISION'S ASSESSMENT ON POTENTIAL EFFECTS ON LAND USE
-013-		CHAPIEN	SECTION		Throughout this volume referenced to the number of personals and its demand on washevaller, potable water, temportation and other refurbishing needs of the Carrier Strike Group (CGS) is based only on the Agrectal Carrier personal and not the entire CGS.
	'	2	2522	Potable Water	On this section it is noted that potable water supply is received solely from Ferni reservoir via the Tupo Tank System which is adequate to supply all existing users (New, GWA customers) including the identical of an All-Armit Carrier (CVY 79) and in accordance with existing Out-Orienteess and agreements with GWA every effort sould be made during periods of low rainfalls and drought to ensure appropriate writer conservation measures are implemented for on better deformed all New Tellers Claum, michigal prainted currier demand.
you -013-		CHAPTER 3	SECTION 3.2.3	Munitions Storage Alternatives	DEM PLANSING DIVISIONS ASSESSMENT ON POTENTIAL EFFECTS ON LAND USE Any allow with munitions storage will record as allo applicate butfor zone and in the asses of both havy and a force and an expectation of the proposed munitions storage will affect any proposed private readerfiel and housing/subdivision development for possible explosion in the adjacent imilitary propose).
5	PEN	3			Additional recommendations [Fee Impact of proposed additions to military 6 dependent housing and childurghophation and fairst test. The hash yell occurs consistent be decaded and relocate to either NOTANS or Ancience APIS or other elser; That munitions storage/evergors emplocement be consolidated in the axes within the wached yell occurs else, and AL housing salts (Army, Mary, Married) be consolidated an shaulded on the earliest procedure of the consolidated and shaulded and the subcorrecommendations will intrinsize explication raise impacts to military housing and childrichophatical and lead uses and future land or adultion earlier for perfected side of munitions storage and coupons employees.
			3.2.4	Weapons Emplacement	Any sites with weapons emplacement will need a safe emplosion buffer zone and in the areas of both Nary and Air Force Barrigadt are disea presimity to olvitain population. The proposed weapons emplacement rate will affect any proposed private residential and housing/subdivision development for passible explosion in the adjacent initiaty proporty.
			324	Weapons Emplacement	Additional recommendation(s) Re: Impact of piroposed activition to military & dependent housing and outstand-population and times. That the bilary golf course operations be observed and relocate to either NOTAMS or Administration APS or other states. That maniforms alongularizations emplacement be concollected that see within the vacated golf course site; and of housing value. Purp, Navy, Narried by occasiodated indicated on the sealths sector within APP Force Distriguists near Fourte 16. The soliver economisediction will maintaine explaint notes reported to entitury housing and orbital-population and fourties and future and state of the sealth of the section of the
813-	833	CHAPTER	SECTION 1.2	OEIS INTENT Non-decision point actions	DIM PLANNING DIVISIONS ASSESSMENT OF FOTENTIAL EFFECTS ON LAND USE. DES actinomiseigne direct & indirect impacts on bland within the volume, however, emphasizes that control of the resources fulfilest actified are not in Debt ocentrals.
-013-	034		2.1	Interim Alternative 2 is a combination of recorditioning of existing permitted GPA facilities, an increase in operational hours for existing combustion buttines, and upgrades to existing T&D systems.	2 solutions - interies and long-term - Interim 1 Preferred Alternative
-			22	Potable Water	Basic Alternative 1 Preferred Alternative —develop new water system for Marine Corps relocation assuming Conforment Alternatives 1 and 2, and install up to 22 new wells on DoD property

operate approximately 5 days per week, 45 weeks per year as presented in Volume 2, Table 11.2-5. Duration of federal use of lands acquired has not been determined.

J-013-014

Thank you for your comment. DoD acknowledges that the issue of land acquisition is a complex and sensitive issue, particularly related to prior acquisition of land in Guam by the federal government. Prior land acquisition policies and procedures are not reflective of current land acquisition laws and DoD policy.

DoD was required to determine whether military relocation requirements could be met by excess, underutilized or otherwise available property held by DoD on Guam. Early development plans attempted to keep all activities on existing DoD lands. However, as discussed in the FEIS (Volume 2, Chapter 2), after applying operational and environmental screening criteria, no contiguous DoD area on Guam was identified that could support all the land use and operational requirements of the action.

Should DoD determine that additional land is necessary to meet its requirements, DoD policy requires that it negotiate with affected public and private land owners in good faith, seek agreements to acquire desired lands interests and pay fair market value. Where circumstances exist that require resolution of issues such as ownership or value, procedures exist under eminent domain authority to resolve those questions. Eminent domain requires reimbursement at fair market value.

J-013-015

Thank you for your comment. The Route 15 realignment would remain under GovGuam control. The proposed firing ranges would not impact

J- Q43	JOES	CHAPTER 9	SECTION		DIASPCANNIKO DVISIONE ASSESSIBLET ON POTENTIA FFFECTS ON LANGUSE: 101 Basic Alternative 1 Pretend Alternative (a support Malko Condoment Alternative 1 and 2; and 10 support Malko Condoment Alternative 2 and 2; and 10 support Malko Condoment Alternative 3 & 8) combines upgrade to the adding primary teachment flexibles and operation to be concently returbent and the Northern District Wastewater Treatment Part (UDWYTP). The difference between Basic Alternatives 1 & 10 to a registerior of the anternative flexible and the support of the Condoment Part (UDWYTP) for 10.
J- 01 3	-037	10			The region of influence for land use is land and ocean in the Yerritory of Guam within 3 nm (5.8 km) off shore.
J-013	-038	11		Recreational Resources	Defer to DPR. See 21 GCA, Chapter 64 (Ocean Shores: Territory Benich Areas); Chapter 66 (Public Access to the Ocean Shore); Chapter 76 (Historical Objects and Sites); Chapter 77 (Department of Parks & [Reccastror])
J- 01 3	-039	12		Terrestial Biological Pesources	Provides for protection of special attact species such as the Marianae first but, Mulsimas crow and the Micronasian Highlater with respect to power, water, some it analysis instances. Defer to Department of Agriculture - See S GCA, Part 2, Chapter 60 (Department of Agriculture); 5 GCA, Part 2, Chapter 61 (Plants 8. Ariends); 5 GCA, Part 2, Chapter 63 (Plant, Garma, Forestry & Conservation); 8 GCA, Part 2, Chapter 65 (Land Contervation) Act)
J- D13	040	13		Marine Biological Resources	Impacts only to Apra Harbor relative increase in activities due to relocation
0-013		14		Cultural Resources	ifteters to National Haloric Preservation Act (NiPA) and the Archaeological Rescuice Protection Act on cultural resources as it impacts utilities - nothing about living culture and its protection thereof.
1-033	GELINE	CHAPTER 2	SECTION	Traffic and Marine Transportation	DUB PLANEING DIVISION'S ASSESSMENT OR POTENTIAL EFFECTS ON LAND USE Indication of degree of impact more closely related to the construction tempo, not the associated increase in population.
	040	3	3331	Summary of Preferred Alternatives' Impact	What is the basis for determination for a less than significant impact?
J-013 J-013		1	3.3.7	Land and Submorged Land Use	Indication of relocations, and land acquisition or long term lease for readway improvements lends to possibly requiring new easuments. Who would then be responsible for those easuments?
J-013	-045	3	3.3.7.3	Comparison of Praferred Atternatives to No Action	. The impacts of the proposed fished wide increase in federal land are being addressed in the Land Acquisition impact Study portion of the Socieconomic impact Assessment Study that is being developed and would be available as part of the Final EIS. Realization of impact, however not able to determine the crient of such impacts.

GOVERNMENT OF GUALA DEPARTMENT OF LAND MANAGEMEN* Page 6 of 8 access or traffic along Route 15. An underpass and an overpass are being considered for military traffic across Route 15. No detailed plans are available for inclusion in the EIS.

J-013-016

Thank you for your comment. DoD understands and recognizes the significance of cultural and recreational sites located on DoD property in Guam. Restricting access to certain DoD areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to DoD lands that contain cultural sites consistent with safety and operational requirements. Access will be granted at approved times such as when the lands are not being used for military training. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

J-013-017

Thank you for your comment.

J-013-018

Thank you for your comment. The layout of the munition storage would be planned so as to not change the explosive safety arcs (zones) from the current situation.

J-013-019

Thank you for your comment. The proposed action and alternatives for Special Use Airspace (SUA) are covered in detail in the FEIS Volumes. Location, altitudes, and times of use would be coordinated with the Federal Aviation Agency (FAA). The FAA would also be responsible for approving and charting any SUA. This will require the FAA to follow

established procedures for Rule-Making actions, which involves public input for establishing new SUA to ensure there are minimal impacts to airspace. Under the proposed actions, Restricted Airspace would only be activated (in use) when required for training events and published on Enroute Aeronautical Charts and Notice to Airmen (NOTAMs), or during times of tactical use. When not activated, current use of the airspace would not change.

J-013-020

Thank you for your comment. Radiofrequency energy (RFE) emission sources are evaluated to determine relevant primary exposure limits to protect health and safety. Two types of exposure limits are considered:

1) occupational/controlled exposure limits in which persons are exposed as a consequence of their employment and are aware of the possible exposure, and 2) general population/uncontrolled exposures in which the general public may be exposed and are not aware of their potential exposure. Specific populations are not surveyed for RFE hazards.

J-013-021

Thank you for your comment. The proposed site for a new generating facility is only a programmatic long-term alternative subject to future NEPA review. A lot of study would be performed prior to such review, such as siting study, air quality modeling, etc. That is beyond the scope of the current EIS. For a detailed evaluation of power alternatives, please refer to Volume 6 chapters 2 and 3.

J-013-022

Thank you for your comment. This proposed new power generation facility is presented only at a programmatic level. If pursued, future NEPA review would be needed and would get into much more detail. The proposed new generating facilities would be owned by Guam Power Authority and provide power to the island wide power system. DoD

proposes to remain a customer of GPA for all their power needs, except for emergency power.

J-013-023

Thank you for your comment. Future land use planning should consider potential air quality impacts, as noted by the commenter.

J-013-024

Thank you for your comment. It is true that land use decisions around live-fire ranges should consider the appropriate compatible use relative to the noise levels in the area.

J-013-025

Thank you for your comment. Comment noted.

J-013-026

Thank you for your comment. At present, data for visitor use of recreational resources under the Government of Guam, Federal, or DoD (except for Andersen Air Force Base, which is included in the EIS) is not available. As a mitigation measure, it is suggested that a carrying-capacity study for recreational resources be conducted. With data obtained from such a study, a resource management plan would be developed.

J-013-027

Thank you for your comment. Plans and permits are discussed in Volume 8.

J-013-028

Thank you for your comment.

J-013-029

Thank you for your comment.

J-013-030

Thank you for your comment. DoD Wastewater flow from South Finegayan will be conveyed to NDWWTP via an independent relief sewer. There is no impact to GWA sewer and pump stations. There is an ongoing study to assess GWA sewer along route 3. The findings of the study have been included in FEIS. DoD will not operate and maintain NDWWTP or GWA sewer system. , DoD and GWA have reached agreement in principle that a special private entity will enter into a contract with GWA to obtain funding (facilitated by DoD), improve the NDWWTP, operate the plant, and repay the loan from user fees, however GWA is responsible for operation and maintenance of the collection system to elimaite all the overflow problems.

J-013-031

Thank you for your comment.

J-013-032

Thank you for your comment. Munitions storage facilities were sited in an area of Andersen AFB compatible with this military land use. Appropriate safety buffers are included in the proposed action.

J-013-033

Thank you for your comment. DoD is working with Guam utility authorities and other Government of Guam agencies to minimize any adverse impacts associated with implementation of the proposed military relocation program.

J-013-034

Thank you for your comment. Just to clarify, there are no preferred long-

term alternatives chosen. The long-term alternatives would be subject to future NEPA review at the project specific level. The long-term alternatives herein are presented only at a programmatic level.

J-013-035

Thank you for your comment.

J-013-036

Thank you for your comment.

J-013-037

Thank you for your comment. You have quoted the EIS text with no suggested edit.

J-013-038

Thank you for your comment.

J-013-039

Thank you for your comment.

J-013-040

Thank you for your comment.

Volume 6, Chapter 13 addresses impacts to Marine Biological Resources from Related Actions, Utilities, and Roadway Actions on Guam. Volume 2 and 4, Chapter 11, address impacts to Marine Biological Resources from the Marines relocation to Guam and CVN dredging in Apra Harbor, respectively. Volume 3, Chapter 11 addresses CNMI, Tinian.

J-013-041

Thank you for your comment. Impacts to modern culture on Guam is discussed in Chapter 16, Socioeconomics and General Services.

J-013-042

Thank you for your comment.

J-013-043

Thank you for your comment. Volume 7, Chapter 3 identifies the preferred alternatives' impacts as presented in Volumes 2 through 6. The analysis supporting these findings (SI, SI-M, LSI, or NI) is found in the previous volumes. The summary tables indicate the relevant volume in the title rows.

J-013-044

Thank you for your comment. All off-base roads would be owned and maintained by Guam Department of Public Works (DPW). Guam DPW would be responsible for the easement the public roads are on.

J-013-045

Thank you for your comment. Additional information from the LAIS is included in the FEIS.

BUREAU OF STATISTICS AND PLANS

(Bureau of Planning)
Government of Guam

Felix P. Camacho Governor of Guam

Michael W. Cruz, M.D. Licutenant Governor P.O. Box 2950 Hagåtña, Guam 96932 Tel: (671) 472-4201/3 Fax: (671) 477-1812



FEB 1 7 2010

JGPO c/o NAVFAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, Hawaii 96860-3134 Attention: GPMO

Hafa Adai:

Enclosed please find comments regarding the Draft Environmental Impact Statement (DEIS) for the re-location of the Marines from Okinawa to Guam, and the construction and dredging associated with increased aircraft carrier berthing. Specific comments referring to sections within the DEIS are enclosed along with specific recommendations accordingly. We urge you to consider addressing all of the major inconsistencies associated with the DEIS that impact proposed action alternatives. We recommend that alternatives previously dismissed (or not investigated at all) should be seriously considered. Guam is a relatively small island with high biological diversity, finite natural resources, and limited infrastructure. These considerations underpin many of the key points presented below.

J-014-001

1. Separate EIS Process

J-014-002

One of the Bureau's concerns is regarding the approach for this action. Each proposed action requires a separate EIS process for marine relocation, CVN Berthing, and Army Ballistic Missile Defense Task Force as they are significantly different projects, they do not appear to be interdependent, and do not appear to be restricted to the same timeframe. Combining all of these proposed actions into a single, massive DEIS document greatly limits the ability of government agencies and the public to review the document.

J-014-003

In addition, the Guam Coastal Management Program (GCMP) is requiring that DoD submit a Federal Consistency determination separately for each of the three proposed activities: 1) Relocation of Marines from Okinawa to Guam; 2) The construction and dredging associated with visiting Aircraft Carrier Berthing; and 3) Army Air and Missile Defense Task Force. The review documents should be submitted to the Bureau of Statistics and Plans, in compliance with the requirements of the Coastal Zone Management Act (CZMA), Federal Consistency regulations, 15 CFR Part 930, 16 USC, 1451 et seq.

The DEIS as referenced on Vol.8 chapter 2, page 2-1, Table 2.1-1 the Status of Compliance column pertaining to Coastal Zone Management Act (CZMA) must be corrected. It is not true that "Consistency determination is prepared and submitted by Navy seeking concurrence from Guam Bureau of Statistics and Plans." The DOD/Navy

Guam Coastal Management Program ♦ ♦ Land Use Planning ♦ ♦ Socio-Economic Planning ♦ ♦ Planning Information ♦ ♦ Business and Economic Statistics Program

J-014-001

Thank you for your comment. Volume 1 at Section 1.4 in the Draft EIS provides a Global Perspective Background, which explains the various international and military capability requirements that were considered for the realignment of military forces. Because this section of the Draft EIS explains the background analysis of strategic military capability locations within the Pacific, it will remain the same for the Final EIS. For instance, this section describes how several locations were considered throughout the Pacific region for the military relocation based upon 1) response times, 2) freedom of action (the ability of the U.S. to use bases and training facilities freely and without restriction at a particular locale), and 3) international treaties and agreements with Japan and other Western Pacific allies. The U.S. locations in the Pacific region considered for the military relocation were Hawaii, Alaska, California, and Guam. Non-U.S. locations considered included Korea, the Philippines, Singapore, Thailand, and Australia, because they are allies to the U.S. and are well situated for strategic force deployment. After analyzing the international and military capability requirements for each locale mentioned above. Guam was the only location for the relocation that met all the criteria.

DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

J-014-002

Thank you for your comment. The proposed actions are complex, interrelated, multi-service proposals and are not discrete individual actions of J-014-003

has not submitted the mentioned consistency determination to the Bureau of Statistics and Plans. Federal agency is required to follow the required timeline for the Federal Consistency review, 15 CFR Part 930.39.

CZMA Regulations should indicate/include provision of 15 CFR 923.33(b) Federal consistency review requirement regarding excluded lands. Activities on federally controlled lands excluded from the coastal zone are also subject to BSP review if the Federal agency determines they will affect any coastal use or resource in the coastal coastal coastal coastal coastal zone are federal agency may submit a negative determination to inform Guam of the proposed activity thus assuring Territory review of borderline cases, (15 CFR Section 930.35).

In addition, CZMA Regulations, Sec. 923.33 Excluded lands. (b) The exclusion of Federal lands does not remove Federal agencies from the obligation of complying with the consistency provisions of section 307 of the Act when Federal actions on these excluded lands have spillover impacts that affect any land or water use or natural resource of the coastal zone within the purview of a state's management program. In excluding Federal lands from a State's coastal zone for the purposes of this Act, a State does not impair any rights or authorities that it may have over Federal lands that exist separate from this program.

J-014-004

We are concerned that the extraordinarily large cumulative scope of the DEIS and the rapid timeline of the planned projects is unrealistic and inappropriate; it reduces the likelihood that the best possible information is integrated into the NEPA process and places an unreasonable burden on the already capacity-limited government agencies, other organizations/institutions, and the general public to conduct an adequate review within the given timeframe. The relocation of troops to Guam, and associated infrastructure demands, appear to be entirely separate from, and not dependent upon, the Army Air and Missile Defense Task Force, and the major construction and dredging operations required for the Carrier Vessel Nuclear (CVN). Consistent with our past position, we continue to strongly recommend that each of these projects be carried through the NEPA process separately, with separate EISs staggered in an order according to project priority.

It is unclear why the Army Air and Missile Defense Task Force and the Visiting Aircraft Carrier Berthing projects were included with the Marine Relocation in a single EIS document. While it is claimed that these activities - which seem capable of operating independently - collectively address treaty obligations with allied nations, the rationale for including all of these projects in a single EIS, and operating under a shared timeline, is not sufficient. Combining such large projects, each of which will have significant impacts to the island, into a single EIS document causes undue hardship for agencies and individuals reviewing the document and limits their ability to make well-informed, well-supported comments. The limited ability to provide substantive comments for the broad range of issues, especially given the large size, the information gaps, flawed data, errors and inconsistencies of the DEIS (likely a result, in part, of the rushed timeline for the DEIS preparers), greatly limits the effectiveness of the NEPA process and thus greatly

2

the different military services. The National Environmental Policy Act specifically prohibits segmentation of a large proposal into smaller actions for environmental analysis. As this EIS shows, the proposed and related actions are having effects on the same resource areas and must be considered together to determine the full potential for environmental effects. Further, a comprehensive analysis helps define the best mitigation and management practices to lessen adverse effects.

J-014-003

Thank you for your comment. The Coastal Zone Consistency
Assessment for all proposed actions on Guam was submitted to the
Bureau of Statistics and Plans after the Draft EIS was published. The
Table in Volume 8 is correct in the Final EIS. The requirement for three
separate assessments is being discussed with Bureau of Statistics and
Plans. The assessment submitted meets the regulatory requirements
listed in your comment.

J-014-004

Thank you for your comment. The proposed actions are complex, interrelated, multi-service proposals and are not discrete individual actions of the different military services. The National Environmental Policy Act specifically prohibits segmentation of a large proposal into smaller actions for environmental analysis. As this EIS shows, the proposed and related actions are having effects on the same resource areas and must be considered together to determine the full potential for environmental effects. Further, a comprehensive analysis helps define the best mitigation and management practices to lessen adverse effects.

J-014-004

increases the chances that the full impacts of the buildup will not be adequately addressed and the costs (monetary and otherwise) will be absorbed by the people of Guam instead of by the action proponent. Each project should be analyzed separately, being sure to include the expected impacts of each project in the cumulative impacts analysis section of each EIS. If this is not possible, we recommend reducing the current DEIS to a programmatic or Tier 1 EIS, providing enough detail to analyze the overall socioeconomic impacts of each activity without delving into details about exactly where each project would be located and exactly what impacts will result. Such an action would significantly reduce the overwhelming size and scope of a single document, would allow DoD to focus on the most time-sensitive elements first, would result in a more thorough analysis of buildup's impacts and ultimately in achieving the best possible outcome. If such an action is not viable, we recommend clarifying why the carrier berthing and ballistic missile task force projects must occur at the same time as marine relocation and why delaying these projects would violate the terms of any treaties. The immense burden placed on local and federal agencies, and the general lack of capacity for local agencies to carry out required mandates in a timely manner would demand that a delay in these projects be very seriously considered. This is especially relevant to the CVN project, the progress of which is already facing substantial challenges resulting from significant information gaps, flawed data, etc. and would benefit by an extended timeline not tied to the timeline dictated by the marine relocation.

2. Need for baseline water and ecological data

J-014-005

Need for a complete baseline water and ecological and sediment contaminant analyses for Guam (i.e., the entire island) upon which change can be detected as a result of build-up and construction activities. Guam's coastal zone is heavily relied upon for subsistence, tourism, and recreation, forming the backbone of life on Guam. Instead of waiting for the individual permitting process before these data are presented, a project of this magnitude necessitates that such an assessment and the associated recommendations be presented in the FEIS.

The existing data to characterize Guam's nearshore coastal waters and ecological assemblages provide a poor baseline upon which change can be detected. Because of the major increases in human population, land-based construction, training activities, and recreational uses, a quantitative study must be conducted to address the long-term impacts of the buildup and associated activities. We strongly recommend that the Department of Defense commit to supporting comprehensive, in-situ characterizations of ecological assemblages and sediment content characteristics around Guam, with adequate statistical power to detect change at the individual site-level.

Existing baseline data from NOAA habitat maps and NOAA Coral Reef Ecosystem Division datasets were not conducted with local-scale, site-specific questions in mind, and instead were designed to address pressing national and regional concerns. Further, Guam's local agencies are tasked with the continuation of their agency-specific data collection programs. Guam Division of Wildlife and Aquatic Resources currently monitors trends in ecological assemblages, namely fish, in the existing MPA's to examine their efficacy. They also conduct surveys of catch rates and composition to

3

Guam and CNMI Military Relocation DEIS/OEIS

J-014-005

Thank you for your comment. Requirements under NEPA are to use the best available scientific information, which has been used in the analysis of potential impacts presented in the EIS.

The Navy collected a robust data set to include coral distribution, benthic cover, fish biomass, and fish and invertebrate species abundance. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral aquatic resource functions, would ideally be used. However, functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. Further, the Compensatory Mitigation Rule recognizes the evolving nature of science on this issue and does not mandate any particular assessment methodology. The Navy assessment used a historically approved methodology followed by the USACE and NMFS for quantifying impacts to coral reef ecosystems. For well over 30 years, coral reef ecosystem monitoring and impact assessments have been based on percent coral cover. Due to the complexity of this ecosystem, percent coral cover has been identified as "the best current available science" standard (or proxy) to attempt capturing the thousands of elements that comprise a coral reef ecosystem. In light of the continued dispute on what parameters need to be collected to fully capture the impact to coral reefs, the Navy's assessment is currently under review by USACE. Upon completion of that in-depth review, if USACE feels additional information is warranted the Navy will seek additional data and revise its analysis appropriately.

J-014-005

assist fisheries management. Currently, their program does not have the resources to expand monitoring efforts to include site-specific investigations pertaining to build-up activities that will rapidly change Guam's environment. Guam's Environmental Protection Agency (Guam EPA) conducts weekly water quality assessments at numerous beaches, as well as annual assessments of several streams. The coastal work conducted by Guam EPA is limited by financial and personnel resources and granting agency requirements. The Government of Guam has recently initiated a multi-agency, long-term coral reef monitoring program with funding through a NOAA Coral Reef Initiative Monitoring Grant, but the scale of the effort remains limited due to major funding and capacity limitations and is not sufficient for the needs discussed here.

Because of the magnitude and speed of the proposed build-up, a holistic ecological monitoring design appropriate to detect site-specific change is imperative. DoD must develop a monitoring program to address this concern. The notable difference for the purpose of the DEIS is the need to move from 'assessment' type work to 'monitoring'. It will form the basis of individual project permitting requirements and identify when/where/if mitigation is needed in the future. Typically, these discussions wait until the individual permitting procedure; however, given the unique magnitude and speed of the build-up, relevant baseline ecological data with sufficient replication and scale to answer questions regarding change over time must be included in the FEIS. At the very least, the FEIS should mention a specific process to ensure that such a program will be undertaken and identify funding, logistics, and key constituents. In addition, it is imperative for this ecological baseline of Guam's coral-and-reef-associated assemblages be conducted in cooperation with local expertise.

Examples of methods used for question-driven, site-specific monitoring can be found within English et al. (1994), Brown et al. (2004), and Houk and van Woesik (2006). Calculations from the existing marine survey data presented in Volume 4 indicate that the data provided are very low in statistical power. The statistical power to detect a 20% change in coral cover (one dominant benthos within Apra Harbor) over time on the coralrich 'direct-slope' reefs is only 6% (using data from Volume 9, Appendix J, Table 3, following calculations of Houk and van Woesik 2006). Similarly, only 20% statistical power exists for detecting a change of 50% in coral cover. These are unacceptable foundations upon which change can be assessed and provide a near meaningless *in-situ* ecological baseline. The argument presented in the DEIS that statistical power cannot be calculated (Appendix J, CVN marine survey, methods section) due to high ecological zonation is not valid; the study must account for this zonation and provide a baseline to detect change over time.

3. Climate Change

J-014-006

Climate change is not mentioned once in the entire document. Shifting patterns of rainfall, air and sea temperature, storm events, and of many other events and processes will impact a multitude of resources upon which society depends. We strongly recommend that the FEIS include a section specifically addressing climate change, and that climate change be incorporated into the impact analyses of project alternatives for

4

Guam and CNMI Military Relocation DEIS/OEIS

J-014-006

Thank you for your comment. Regarding climate change, the Navy acknowledges there is potential for marine resources and aquifers to be affected by sea level rise, inundations from more extreme storm events and other consequences of climate change. The impacts may be both adverse and beneficial. The current level of scientific knowledge can predict trends in sea level rise based on historic data but there are no established methods for assessing and quantifying potential impacts on marine resources or aquifers.

The University of Guam provides analysis of the aquifer responses to sea level change and recharge in a November 2007 study. Climate change may impact the success of production wells in the future (e.g., the placement of the well screen may not be optimal if the sea level rises or falls). Given the uncertainty of climate models including lack of information that is directly applicable to northern Guam and lack of specificity regarding the time and degree of impacts to conditions that could impact the aquifer, the DoD wells would be installed based on current conditions and regulatory requirements. Monitoring would be conducted during well operation. If production or water quality declines over time, DoD would take actions to mitigate the impacted wells.

each of the propose actions. Adaptive Management Plans must be developed to address impacts relating to climate change and sea level rise.

Clearly, the change in global climate resulting primarily from anthropogenic forcing provides for much uncertainty for future climate regime predictions at the global, regional, and local scales; shifting patterns of rainfall, air and sea temperature, storm events, and of many other events and processes will impact a multitude of resources upon which society depends (Tebaldi et al. 2005). We strongly recommend that the FEIS include a section specifically addressing climate change, that climate change be incorporated into the cumulative impacts analysis, and that climate change also be incorporated into the impact analyses of project alternatives for each of the proposed projects. We also strongly suggest that the precautionary principle be adopted when considering the impacts of climate change (and for other impacts). It is well-known that the prevention of impacts is much less costly than the restoration of lost resources - and that in some cases the lost resources cannot be restored within time frame relevant to human societies. Examples of climate change-influenced factors affecting the outcome of impact analyses, include, but are not limited to 1) decreased recovery times for coral reef resources that will be impacted by DEIS activities, 2) the potential for ecosystem collapse as a result of synergistic influences associated with acute dredging and construction disturbances (Baker et al. 2008), 3) fluctuations in Guam's freshwater resources as influenced by changing rainfall patterns and the increased dependence on the Northern Aquifer from the increased human population, and 4) increased dependence upon Guam's power grid, sewer lines, roads, and other infrastructure given increasing future uncertainties.

There is no analysis of the impacts of sea-level rise on the fresh water lens of the Northern Guam Aquifer. The possibility of sea-level rise is never mentioned. Much of the problem associated with the discussion of potable water supplies in this DEIS comes from the fact that there has never been a state of the art understanding of the aquifer itself. No 3D models have been constructed, which have been identified as necessary to understanding the dynamics and the potential of the aquifer. To increase Guam's population by 44% based on a less than adequate understanding of potable water capacities is irresponsible. DoD must work with appropriate Government of Guam agencies to conduct a comprehensive study of the capacity of the aquifer to meet the demands of both civilian and military communities.

J-014-007

4. Visiting Aircraft Carrier (CVN) Berthing

There are major concerns with how Volume 4, and most of the associated supporting studies summarized within, assess the potential marine resource impacts of the CVN Berthing project. An overarching concern is the apparently systematic bias towards a major underestimation of the impacts to marine resources. This bias is evident in the misinterpretation and misuse of scientific literature, the use of questionable data collected using inadequate survey methods, the inappropriate use of coral cover and the lack of coral size frequency data for use in the HEA, and the lack of data for significant areas of coral reef habitat. These concerns are as follows:

5

Guam and CNMI Military Relocation DEIS/OEIS

J-014-007

Thank you for your comment. The Navy collected a robust data set to include coral distribution, benthic cover, fish biomass, and fish and invertebrate species abundance. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral aquatic resource functions would ideally be used. However, functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. Further, the Compensatory Mitigation Rule recognizes the evolving nature of science on this issue and does not mandate any particular assessment methodology. The Navy assessment used a historically approved methodology followed by the USACE and NMFS for quantifying impacts to coral reef ecosystems. For well over 30 years, coral reef ecosystem monitoring and impact assessments have been based on percent coral cover. Due to the complexity of this ecosystem percent coral cover has been identified as "the best current available science" standard (or proxy) to attempt capturing the thousands of elements that comprise a coral reef ecosystem. In light of the continued dispute on what parameters need to be collected to fully capture the impact to coral reefs, the Navy's assessment is currently under review by USACE.

Upon completion of that in-depth review, if USACE feels additional information is warranted the Navy will seek additional data and revise its analysis appropriately. The HEA referred to (Volume 4, Chapter 11 and Volume 9, Appendix E) is a description of how mitigation could look. Through coordination with our regulatory partners the Navy will develop a compensatory mitigation package that will conform to the regulatory guidance provided by USACE. The 200 meter indirect zone used in the DEIS was based upon discussions with resource agencies, which indicated that indirect impacts would be contained within the shallow reef area, which is approximately 200 meters from the outside edge of any dredging footprint. Subsequent to discussions with the resource

- a. Apra Harbor is a unique coral reef environmental within US jurisdictional waters and the Mariana Archipelago, and possesses unique assemblages and unique species of flora and fauna. The potential loss of biodiversity is not considered.
- b. Artificial substrates have been found to host significantly larger populations of non-native, introduced fauna, than natural substrate, but the DEIS authors extol the benefits of increased artificial substrate associated with the deep-draft wharf and continue to support the use of artificial reefs as a preferred mitigation method. Artificial substrate should not be considered beneficial, and artificial reefs must not be considered as compensatory mitigation for these and other reasons cited below.
- c. A comprehensive invasive species monitoring and response plan is currently lacking for Apra Harbor; such a plan must be completed, reviewed, and included in the FEIS.
- d. The existing habitat equivalency analyses (HEA) is based solely upon coral cover data and a coarse-scale "rugosity" measurement; such an approach does not provide a meaningful measure of the various ecological functions and services provided by the coral reef communities within the project area. HEA calculations must take into account ecosystem functions and services provided by non-coral invertebrates, unoccupied reef substrate, soft-bottom sediments, and coral reefs below 60 ft. Additionally, the HEA must take into account the services lost by blocking ~50% of the entrance to Guam's nearby Sasa Bay Marine Protected Area that holds unique biodiversity and is a no-take fish preserve.
- e. Dredge plume models were only run for 24 hours under assumptions of 90-100% sediment removal efficiency. Both parameters are unrealistic and provide inaccurate estimates of sediment production, removal, and transfer to adjacent reefs. The FEIS must rigorously account for cumulative sediment dispersal associated with longer term dredging, and with more realistic removal efficiencies that will be present as a result of curtain breaks/failure, sediment escape below and between curtains, uncontrollable weather events, anomalously large tidal cycles, and other weather patterns. Existing current studies only encompassed two field days, which is not nearly sufficient to characterize the impacts to the project area given the magnitude of proposed activities.

There are major flaws with Volume 4 of the DEIS, many of the associated studies and appendices, and the assumptions that informed the Habitat Equivalency Analyses (HEA). While numerous specific examples are enclosed to support the above statement, several main points are discussed here, along with specific recommendations.

Uniqueness of Apra Harbor marine environment

Apra Harbor is a unique coral reef environmental within U.S. jurisdictional waters and the Mariana Archipelago and possesses unique assemblages and unique species of flora

6

agencies, modeling with appropriate best management practices has indicated that indirect impacts would be limited to 12 m to the outside edge of the dredging footprint; hence, the analysis provides for 188 m buffer areaThe Navy understands that this generalized zone of indirect impact is not refined sufficiently to address USACE concerns and have solicited the assistance of USACE Environmental Research and Design Center (ERDC). The refined level of indirect impacts associated with the dredging activities based upon additional analysis is anticipated to be greatly reduced. All mitigation options associated with the proposed CVN transient wharf, including the use of artificial reefs and watershed restoration, are being considered by the Navy. When the Navy develops its proposed compensatory mitigation plan, mitigation options contained within the plan will be evaluated by the USACE to determine compliance with the Compensatory Mitigation Rule. After further evaluation. upgrades to the NDWWTP as a proposed mitigation option associated with the proposed CVN transient wharf have been dropped from further consideration. Further studies on watershed models are ongoing.

and fauna. In a report to the Navy regarding the diversity of select marine invertebrate taxa within Apra Harbor, Paulay et al. (1997) state:

- "A total of 60 species of sponges, 72 species of echinoderms and 47 species of ascidians were documented from the harbor. These represent 63% of the sponges, 37% of the echinoderms and 38% of the ascidians currently known on Guam. Thus the harbor has a thriving and rich marine biota, and is home to a large portion of Guam's marine fauna. In addition to these selected taxa, 511 species of other invertebrates were also recorded from the harbor."
- "About 80% of the sponges and 53% of the ascidians of Apra Harbor are not known outside the harbor on Guam, while only 18% of the echinoderms are so
- "Three areas stood out in Apra Harbor for their especially diverse and unique biota: the central shoals and mounds, especially Sponge Mound, the Sasa Bay mangroves, and the mooring and navigational buoys."

Given the extremely high level of unique fauna not found elsewhere in the entire Mariana Archipelago, it becomes clear that the no action alternative should be very seriously considered, or that an alternative berthing (other than Guam) be investigated. No clear evidence is provided to support the oft-mentioned conclusion that the severe impacts to the large area of reef habitat within the project area will not have any significant impact on Essential Fish Habit, sea turtles, or other marine resources. Currently, the DEIS gives no consideration of biodiversity when calculation ecological functional losses, and rather focuses only upon coral cover and a crude measure of landscape rugosity. The information provided by Paulay et al. (1997) is not mentioned anywhere in the DEIS, despite the fact that it presents a great amount of biological knowledge specific to the harbor. The FEIS must account for the high degree of unique fauna that will be directly and indirectly removed, and mitigation measures must be presented in detail.

J-014-008

The "benefits of artificial substrate" and the impacts of non-native species

The findings of Paulay et al. (1997) indicate that a higher (statistically significant) prevalence of probable non-native species was found upon artificial substrates compared with natural reef substrate. Currently the DEIS provides no assessment of the potential damage of increased invasive species establishment due to increase man-made structure within the harbor, or increased vessel traffic as a result of the entire military build-up. Instead, the DEIS authors extol the benefits of increased artificial substrate associated with the deep-draft wharf and continue to support the use of artificial reefs as a preferred mitigation method. Artificial substrate should not be considered beneficial, and artificial reefs must not be considered as compensatory mitigation for these, and other reasons cited. The FEIS must include a full assessment of the impacts of the likely increase in non-native species introductions into Apra Harbor, a complete monitoring program description to detect changes in non-native species over time, and a complete response plan upon detection of potentially invasive non-native species. Further, the introduction of additional artificial substrata within the harbor should be minimized, as it represents a

7

J-014-008

Thank you for your comment. Understandably artificial reefs are not an ideal choice, but given the lack of other historical examples that would lead an action agency to determine success criteria, mitigation options are limited. Erosion rates have been studied and established; however, none of these studies tie a level of sediment reduction to a predicted area of coral restoration.

Unfortunately, there is very little mitigation information outside of artificial reefs that could be used to design a compensatory mitigation project. In future collaborations it would be helpful if those agencies could provide science-backed recommendations for viable, success criteria driven mitigation projects.

That being said, to compensate for the loss in ecological service provided by coral reef ecosystem, upland reforestation (to improve nearshore water quality), artificial reefs (to provide increased fish habitat), or a combination of these and other compensatory mitigation alternatives will be considered by the Navy to comply with federal laws that protect coral resources.

The Navy will continue to work with the USACE and EPA/GEPA and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

As stated by the Department of the Army (17 Feb 2010 response to DEIS): "the employed survey methodology to assess coral reef resources within the proposed CVN wharf and dredge project area has been an extremely contentious subject. Functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral reef aquatic resource functions.

key vector for the establishment of non-native species. The propensity of non-native species for artificial substrate is also another reason why artificial reefs should be removed from consideration as a potential compensatory mitigation alternative.

J-014-009

Significantly flawed Habitat Equivalency Analysis

There are several major flaws with the Habitat Equivalency Analyses (HEA) presented in the DEIS. As a result of these flaws, the scale of compensatory mitigation required to offset the impacts to the marine resources is vastly underestimated. One of the major flaws with the HEA presented in the DEIS is that assumption that only coral-reef structure with living coral should be considered. The living assemblages that reside upon these coral reefs (i.e., the geological structures) are extremely dynamic in nature. When the surveys were conducted, the impacts of past disturbance regimes were unknown and unreported in the DEIS. Consider if there was a large typhoon during the year(s) prior to the surveys, and less living coral was found just because of the unfortunate natural disturbance.

The logical conclusion of this assumption would be that less coral equates to less value. This is not appropriate and not supported by the scientific literature. Rather, these wellknown ecological dynamics form the basis for metapopulation ecology (Hanski and Hanski 1999), used to successfully model how populations change over time given differential environmental scenarios. A general assumption of metapopulation ecology is that unoccupied patches of habitat that may be colonized at a later time are equally important as occupied patches. Indeed the metapopulation structure (of both occupied and unoccupied patches) is an essential component that can determine ecological recovery after disturbances (Lipcius et al. 2008); whereby an absence of unoccupied patches can hinder recovery following disturbance (i.e., hinder the persistence of populations). Thus, keeping unoccupied patches in a suitable state for colonization should be a top priority for management, and they deserve similar value as occupied patches with contemporary coral growth. Clearly there is a strong scientific basis for providing value to unoccupied patches of reef, however the DEIS does not consider any of this. Based upon the well-supported science surrounding population dynamics, it is recommended that all of the coral reef structures subject to impact must be considered in the HEA calculations for the FEIS. They are all of high ecological value, as certainly many of today's assemblages reside upon unoccupied patches of the past, and removal of unoccupied patches will alter the future of marine species populations and overall reef ecosystems within Apra Harbor.

In Volume 4, Appendix E (the Habitat Equivalency Analyses), and supporting studies, no value was given to reefs below 60 ft., to macroinvertebrates that will not be able to escape the project footprint, to soft-bottom habitat, or to fish assemblages. No clear logic is provided in the DEIS for their omission. For example, it is not clear why the study was limited to reef area shallower than 60 ft when the impacts of dredging will certainly extend to the harbor bottom. A preliminary spatial analysis indicates that approximately 25 acres of coral reef habitat that occurs at depths below 60 feet on the slopes of reefs planned for dredging; an additional 70 acres of deeper (>60 ft) reef occur on the slopes of reefs within the arbitrary 200 m indirect impacts buffer. When considering the totality of

as would ideally be utilized for the proposed action for Section 10/404 compensatory mitigation purposes, is not currently available. Considering that our office will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment, we have engaged our Engineer Research and Development center (ERDC) to provided an independent technical review of the adequacy of the employed methodology to date and recommendations for improvements, if necessary. Preliminarily, ERDC has determined that while the methodology is scientifically valid and statistically defensible, a more intensive level of data collection may be necessary to adequately measure habitat function for compensatory mitigation purposes. We expect a more specific and detailed accounting of their review in the coming weeks."

J-014-009

Thank you for your comment. The Navy used a habitat indices in the Habitat Equivalency Analysis (HEA), which was developed off of percent coral cover and rugosity (3-dimensinality) as suggested by resource agencies. The Navy has worked with and coordinated meetings with the resource agencies over the last three years discussing (HEA) approach and methodologies. The Navy has invited them to perform surveys, and attended a USFWS hosted HEA workshop in 2008 (Guam agencies were unable to attend due to scheduling difficulties). The Navy has addressed ERDEIS and PDEIS comments and concerns, incorporating additional quantitative coral and finfish studies into the DEIS in attempts to alleviate some of these concerns.

As stated by the Department of the Army (17 Feb 2010 response to DEIS): "the employed survey methodology to assess coral reef resources within the proposed CVN wharf and dredge project area has been an extremely contentious subject. Functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. A

coral reef habitat (hard-bottom and softbottom, coral and non-coral areas) within the direct and indirect impact areas, an estimated 440 acres will be impacted to some degree or another. Deeper water coral assemblages are dismissed because of their sparse coverage in comparison to their shallow-water counterparts, and their natural adaptation to lower light and high sedimentation. However, no quantitative assessment is made of these coral assemblages and no support is given that the added sediment won't impact deeper assemblages, despite their inherent physiological adaptations. Deeper reefs have been shown to be very important refuges for coral populations around the world during times of stress (Riegl and Pillar 2003, Riegl et al. 2009); showing less impact from disturbance and assistance of shallow-water coral recovery. Further, their differing tolerances to natural conditions that exist at depth are irrelevant, as the percentage increase above typical ambient conditions (for deep and shallow reefs alike) is what will alter the physiological response of the adapted coral (Telesnicki and Goldberg 1995). Since data are not available for these areas, and because much of the data for shallower reef communities are flawed and unusable, we strongly recommend that a much more robust impact assessment be conducted for reef habitat (soft and hardbottom, coral and non-coral areas) at all depths utilizing a range of ecological parameters collected using the appropriate methods. The importance of these areas are clearly demonstrated by the scientific literature, and it is critical that data from these deeper reef communities be incorporated into the HEA model in order to ensure that a more appropriate level of compensatory mitigation is provided.

Similarly, it is not clear why macroinvertebrate and fish assemblages data were not included in the HEA, as they provide, among other functions, necessary ecological functions that are needed for coral populations to persist. There is well-accepted, published evidence to demonstrate the importance of grazing on coral reefs. Grazing rates are coupled with not only macroalgae dynamics (Mumby et al. 2006) but also with coral recruitment and growth following natural disturbance cycles (Mumby and Harborne, 2010). Removal of reefs that grazing sea urchins and herbivorous fish depend upon will certainly have consequences for the long-term population dynamics of these taxa within Apra Harbor. Fish and urchin density estimates must form the basis for valuing the key ecosystem services they provide, and for assessing the services that will be lost. Value must be assigned to these key coral-associated fauna in the HEA based upon the published literature describing their significant contribution to coral reef ecosystems, and the detrimental, long-term consequences of their reduction and/or absence.

Soft bottom sediments provide foraging grounds and support populations of fish that are comparable in biomass to topographically-complex, rock bottom and coral habitats (Gomelyuk, 2009), but differing in composition. It is not clear why the impacts to the infauna (i.e., the food for the fish that exist in these areas) are not considered in the DEIS. Clearly, fish represent a steady source of protein for island societies, and the removal of infaunal communities that support fish populations deserves consideration and value. Further, some of the dredging will replace soft-bottom with flat hard-bottom structure, and the soft bottom composition will likely change as a result of sediment re-suspension and eventual accumulation associated with dredging operations. An assessment of the

9

standard functional assessment technique that accurately characterized and quantifies losses and gains of coral reef aquatic resource functions, as would ideally be utilized for the proposed action for Section 10/404 compensatory mitigation purposes, is not currently available.

Considering that our office will ultimately be responsible for determining compliance with federal regulations requiring an appropriate and practicable functional assessment, we have engaged our Engineer Research and Development center (ERDC) to provided an independent technical review of the adequacy of the employed methodology to date and recommendations for improvements, if necessary. Preliminarily, ERDC has determined that while the methodology is scientifically valid and statistically defensible, a more intensive level of data collection may be necessary to adequately measure habitat function for compensatory mitigation purposes. We expect a more specific and detailed accounting of their review in the coming weeks."

The Navy will continue to work with the USACE and EPA/GEPA and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.

infauna assemblages in Apra, including identification of the dominant species, their population dynamics, and rates of recovery from disturbances must be provided in the FEIS. Value must also be assigned to these areas for use in the HEA.

J-014-010

With respect to fish assemblages, there is no mention of negative impacts to the efficacy of Guam's Marine Protected Area (MPA), Sasa Bay, and its proximity to the dredging footprint. Guam's MPA's have been established for over 10 years, and have been generally shown to provide for increased fish biomass compared to reference sites. Common goals of MPA's are to export larvae to surrounding reefs, and eventually provide for adult emigration to adjacent reefs. Obviously, the project footprint nearly surrounds the MPA, and during dredging activities will adversely impact the efficacy of the MPA in terms of adult migration and larvae transport. Kim and Grigalunas (2009) estimates costs to the fishing industry associated with dredging at \$40,000 per annum for a single, small sand-mining project in Korea. While costs remain un-estimated for tropical coral reef environments, such as Apra Harbor, it is clear that value needs to be assigned for the lost ecosystem services. Further, mangrove habitats are significantly linked with enhanced fish biomass on reefs that are several kilometers away (Mumby et al. 2004). The mangrove stand in Sasa Bay MPA represents the largest in the Marianas, and export of larvae will be impeded in the direct project footprint, adjacent to the MPA. The DEIS stated that the dredging would only provide limited impacts to the transfer of larvae and fish populations, and would not lead to long-term declines in larval export or adult populations. However, no scientific studies or quantitative modeling data were presented. Further, Amesbury (1981) shows significant 3-year declines in fish diversity and abundance within a footprint associated with airport-related dredging in Truk, Micronesia, where sediment accumulation was noted. It is imperative to note that the project footprint is adjacent to the Sasa Bay MPA, and covers approximately 50% of the entrance to the bay. It is essential that the final EIS provide a scientifically-defensible value for the compromised services of the Sasa Bay MPA during the dredging and recovery period.

J-014-011

There are valid concerns with respect to the use of models to assess indirect impacts associated with dredging activities, as reported in Volume 4, Section 4, Water Quality Resources. Typically, all pollutant discharge (inclusive of any local water quality standards violations) requires a zone of mixing calculation, and must gain approval through coordination with the local and federal Environmental Protection Agencies. This important, legal process was not described within the DEIS but will be required in the permitting. The permitting process needs to be addressed in the FEIS to ensure that costs can accurately be assessed.

In addition, the DEIS used extremely limited surface current data gathered on only 2 events, coupled with scientifically-unfounded assumptions to estimate indirect sediment discharge rates. Wolanski et al. (2003) used a combination of 1.5 years of current meter data and satellite-derived surface topography to model surface-current eddies around Guam to gain a perspective of events that may occur within a typical year. The DEIS uses only two days of current data and no satellite derived information to come to a conclusion that the project area is characterized by low-velocity conditions. This is

10

J-014-010

Thank you for your comment. Sasa Bay (and associated mangroves), and its importance as a nursery and proximity to the proposed action, is described in Volume 2 and 4, Chapter 11. Both Volume 2 and 4 also address potential effects on finfish species, and other associated EFH species, in regards to the Sasa Bay MPA and the proposed action in Apra Harbor.

In summary, Figure 11.2-3 in Volume 4, shows the dredged footprint and estimated limits of sediment accumulation. Sasa Bay ranges from 70 m to 280 m outside of the dredged footprint and the estimated sediment accumulation area. Sasa Bay's waters are generally extremely turbid because of rivers emptying fine sediments into the bay and flow is generally to the west. Turbidity levels in Sasa Bay from dredging activities are not anticipated to increase above existing conditions from in-water construction activities. Although some adverse effects to eggs and larva may be seen from at the surface, increased vessel traffic would be short-term and localized during construction and operations activities. A less than significant impact – no adverse effect on essential fish habitat – is expected based on the significance determination identified in Section 11.2.1.2.

J-014-011

Thank you for your comment. The permitting process is further described in the FEIS.

The three-dimensional circulation and transport model of the project area was developed using the Environmental Fluid Dynamics Code (EFDC). The model included wind and tide forcing, and fresh water inflow into the Inner Apra Harbor; the dredge plume was simulated by loading the water column with specified quantities of suspended sediment composed of 5 different grain sizes. The sediment grain distribution was determined from bottom samples taken in the project area. The model calculated

troubling, especially considering that the proposed action will require between 8 and 18 months of continuous dredging activity. There is a major discrepancy between the length of the construction activities that modeling needs to account for, and the temporal scale of the data that went into the model. We strongly recommend that surface current data be much more temporally-robust for modeling purposes, and that these data encompass a range of anomalous conditions that might occur during the course of a typical year in Apra Harbor.

Further, silt-curtain sediment retention efficiencies of 90-100% were used in all model calculations, and only unpublished literature was provided as supporting evidence. Unfortunately, the key study that was cited was unavailable to reviewers of the DEIS without access to Navy reports. We recommend that all cited literature be peer-reviewed and made available through libraries, or be made available to the agency reviewers. Without understanding the basis for the assumptions, the public and agencies can't assess the level of certainty associated with each assumption. It is possible that the technical reports cited may have little scientific merit, but the reviewers would never know. Silt curtain capture efficiencies between 90-100% assume extremely minimal tearing and low rates of failure. Regardless of the authors' opinions on the success of silt curtain use, models should be run assuming a wide range of sediment release rates and silt curtain efficiencies. In fact, there should be a 'null' model produced that shows expected sediment release given no intervention, upon which varying assumptions of silt curtain success can be measured. This information should be provided in the FEIS, and will enable reviewers to understand the potential benefits of successful management, and potential pitfalls if accidents happen. Clearly, EIS statements should include more realistic uncertainty factors, and the 90-100% efficiency of the curtains provides for little margin of error (i.e., breakage/failure of curtain, bad weather events, or poor curtain maintenance).

These retention rates do not seem to be supported by a number of anectodal reports of silt curtain failure across several dredging projects, most notably the dredging of the Inner Apra Harbor Channel Mouth and the on-going dredging at Kilo Wharf. Multiple incidents of tearing have been reported and large sediment plumes extend well beyond the confines of the silt curtains. Recent discussions with a commercial operator that visits the reef area known as "Gabgab II" revealed that the individual attests to a considerable decrease (~50% 0 in visibility since the beginning of dredging operations at Kilo Wharf. This reef is several hundred meters from Kilo Wharf and is well outside the area of influence predicted by models presented in the Kilo Wharf EIS. The GCMP Biologist has personally observed the significant accumulation of sediment at depths >10 m on the reef tract between Kilo Wharf and Finger Reef. Consistent with these observations was the observation of what appeared to be a deeper (> 10 m) sediment plume extended from the Kilo Wharf extension construction site to Finger Reef. Upon reaching Finger Reef, the plume appeared to be deflected northwards towards the center of the harbor. This plume was also observed by individuals from NOAA PIRO, USFWS-Honolulu, and Guam EPA.

11

Guam and CNMI Military Relocation DEIS/OEIS

transport, dispersion and deposition of the plume suspended sediments and was verified by comparing results for a simulation of December 15 to 17, 2007 trade wind conditions with the actual instrument measurements. Use of a silt curtain was simulated based on 145 days of TSS measurements inside and outside of the silt curtain deployed for the Alpha-Bravo dredging project in Inner Apra Harbor and model computed TSS levels compared well with the Alpha-Bravo measurements. Possible worst case conditions were simulated by approximating the highest 10% TSS levels recorded outside of the silt curtain during the Alpha-Bravo dredging project, during strong trade wind conditions. This worst case scenario data generated by the model is presented as a conservative estimate of conditions that would be observed during the dredging of Inner Apra Harbor. Actual conditions are expected to be less. Specific monitoring requirements would be identified and implemented following agency coordination and permitting.

These and other observations raise serious concerns about the high rate of effectiveness of silt curtains claimed by the DEIS authors. The escape of a large amount of sediment from silt curtains should not be surprising, as the curtains typically only extend to a depth of about 10 meters. At Kilo Wharf and in much of the area proposed for dredging associated with the CVN Berthing project, the deployment of silt curtains to a depth of 10 m would leave between 10 and 20 feet of unprotected water column between the bottom of the curtain and the seafloor. A tremendous amount of sediment can easily escape from this open area and be carried to nearby reef areas. In addition to running the sediment plume under a much larger range of efficiencies, these observations suggest that the assumed high rates of silt curtain effectiveness are not realistic, and that the actual rates are much lower. But beyond informing the sediment plume model, these observations highlight the need to explore more effective methods of sediment retention. A more accurate assessment of the indirect impacts of dredging on nearby marine resources, and the large, appropriately scaled compensatory mitigation for these impacts, may also make hydraulic dredging a more cost-effective option.

J-014-012

With specific regard to the proposed CVN berthing project, our analysis of the alternatives in the DEIS leads us to believe that other alternatives may have been foreclosed prematurely, without adequate explanation regarding their elimination from the range of alternatives analyzed in the DEIS. It appears as though a preferred alternative had been selected a priori, without regard to environmental consequences. While some explanation is provided for the elimination of some alternatives from consideration, the explanation does not appear to derive from a detailed analysis of such alternatives. This is especially troubling given the scale and severity of impacts to marine resources expected to result from either of the proposed action alternatives.

The Former SRF and Polaris Pt. alternatives are not sufficiently different from each other. It is difficult to accept that a proper analysis of all possible reasonable alternatives was conducted when we are left with essentially one action alternative. The scale and severity of the impacts of the highly similar Former SRF and Polaris Pt. alternatives demand that additional, sufficiently different, practicable alternatives be thoroughly investigated. Based on what appears to be a general consensus among the local and federal natural resources agencies, the assessment of impacts to marine resources associated with the two CVN berthing action alternatives significantly underestimates the value of the resources. As such, it is reasonable to assume that the cost to mitigate these impacts will likely be significantly greater than the costs estimated to date, as described in the DEIS. The cost-benefit analysis, even in purely economic terms, would surely require broadening the search for suitable berthing sites on Guam and perhaps on other islands in the region, instead of limiting the potential sites to those identified as preferred sites a priori, and before any impact assessments were conducted. It is also important to note that many residents of Guam would not limit their analysis of the impacts in only a fiscal sense, but would also place significant value on the traditional, historical, aesthetic, spiritual, and other aspects of the sites to be impacted, and the myriad resources, stories, and knowledge associated with these sites. The Navy's Environmental and Natural Resources Program Manual provides examples of the types of alternatives that should be included in an EIS, including 1) taking no action, 2) postponing action, and 3) selecting actions of a significantly different nature that would meet mission and project objectives

12

Guam and CNMI Military Relocation DEIS/OEIS

J-014-012

Thank you for your comment. As described in Chapter 2, Volume 4 of the EIS, the Navy reviewed several alternatives for wharf location, wharf alignment, turning basin location/radius, and channel alignment. After careful review of the alternatives based on selection criteria, Polaris Point, and the Former SRF were the only two locations that met the selection criteria as described in Section 2.3.1 of the EIS. The DoD undertook several measures to avoid environmental impacts, including choosing a channel alignment that avoided dredging of coral shoals, reducing the aircraft carrier turning basin radius, and choosing a parallel to shore wharf alignment with a reduced clearance for the aircraft carrier. Chapter 4, Volume 4 highlights the differences between these two alternatives in the LEDPA discussion. These alternatives may appear similar but they are different, as explained in Chapter 4. Many alternatives (including Kilo Wharf) could not be carried forward because they are not operationally feasible would result in security/force protection issues, or have logistics issues. Other locations in Guam and/or the Pacific were also ruled out as options for the reasons presented in Chapter 1 and 2, including not meeting the overall purpose and need. If a location did not meet the minimum criteria, conducting a cost benefit analysis, or moving forward with draft designs, is not logical nor warranted. Under NEPA, a cost benefit analysis is not required.

with different environmental impacts. We believe that the Former SRF and Polaris Pt. alternatives are not sufficiently different, leaving reviewers with essentially one action alternative (which, then, is not an "alternative" at all), and thus a range of reasonable alternatives is not offered for evaluation of environmental impacts. Alternatives should address alternate designs, site locations, etc. when establishing the selection criteria. DoD must fully evaluate other alternatives including existing facilities.

It seems as though the costs associated with including all of the reef areas (occupied and unoccupied coral reef habitat), macroinvertebrate and fish assemblages, reefs below 60 ft., and soft-bottom sediments, would likely lead to drastic increases in the cost to carry out appropriately-scaled compensatory mitigation. The required enhancement of current data used in the sediment plume model, and a more accurate assessment of indirect impacts would also likely result in significantly greater compensatory mitigation costs. It is therefore strongly recommended that the FEIS include a cost/benefit analysis for the entire scope of Volume 4 and that a longer transit, Hawaii-or-US-based alternative, the use of Kilo Wharf, or another location within the region be more seriously considered. The high costs of habitat offset and required science may be inhibitive for the proposed build-up in Apra Harbor. Regardless of the EIS conclusion, the cost/benefit analyses of the entire operation must be transparent to the reviewers, and not kept as an internal affair.

J-014-013

Additional Marine and Coral Reef related issues:

In addition to the technical issues related to the CVN project analysis, additional marine related issues are listed below with recommendations:

a. Guam Shipyard Facility.

Vol. 1, chap. 2, 2.2.3.3 suggests reducing the footprint of the Facility. While this may be possible and desirable, it misses an important point. With the additional shipping and Marine vessels operating out of Guam there is an opportunity for DoD to support increased use of this American facility. Possible increased use of (or reasons for not increasing use of) the Guam Shipyard Facility should be detailed in the FEIS.

b. Training Impacts.

Evidence is clear that the continued use of jet skis in shallow waters (Hagatna Bay) result in cumulative negative impacts on the corals and sea grasses beneath the activity. The Marines propose training with shallow water craft in Apra Harbor, but no reference has been made to studies as to the impacts of such use. FEIS should address possible impacts of Marine training craft on marine life. It also needs to detail coral avoidance/protection plans to be in place for use of LCACs and AAVs.

c. Green Sea Turtles.

While this report states that there are no Green Sea Turtle nesting sites at the proposed firing range facilities at Pagat, there are nesting areas north of that area. What are the impacts of 20lb. explosions on turtle nesting? Is this an activity that should be curtailed during nesting periods as a form of mitigation? This should be addressed clearly in the FEIS.

13

Guam and CNMI Military Relocation DEIS/OEIS

J-014-013

Thank you for your comment. Chapter 8, Volume 4 discusses impacts to the Guam Shipyard Facility. All training related to impacts within the marine environment are addressed in the MIRC EIS. The Navy is entering into formal Section 7 consultation with NMFS to ensure consideration for impacts to endangered species as required by federal law.

"As a measure to benefit long-term military mission planning, collection of key information on sea turtles is being considered" (volume 2, chap. 10, page 140). The study should include Guam Division of Aquatic and Wildlife Resources as they have responsibility for research, monitoring and enforcement for sea turtles.

The DEIS states in volume 4, chapter 4, 230.3 (page 34) that "the Navy recognizes that there are many on-going and recent past studies on the subject of potential exposures to sea turtles and other marine species from pile driving actions", and then follows with, "Further research and validation of these studies are necessary prior to being able to determine the applicability of the methodologies and results to the proposed action within this DEIS." How many studies will it take? If further studies are needed, then there should be a delay in the actions proposed. This appears to be an attempt to cherry-pick studies until you find one that agrees with your desired action. FEIS should explain why current and past studies should be ignored.

J-014-014

d. Sediments.

Core samples taken in inner and outer Apra Harbor do not necessarily reflect the impacts that berthing will have. Samples should have been taken at Kilo Wharf, which has now been in operation for more than 20 years, including years (through the mid 90s) when TBT was being used as an anti-fouling paint. Samples taken there would better reflect the potential impacts at the new wharf. Bio-assays should also be taken at Kilo to understand the amount and impacts of pollutant up-taking that may occur. While TBT may have been phased out in use (as stated in Vol. 4, chap. 4, 4.2.2.2), the leachates from copper based ablating paints are still a concern as their potential for long-term buildup in defined areas has not been addressed. If samples taken at Kilo show a high concentration of metals or other vessel-related contaminants, then a mitigation for long-term impacts should include a regular schedule of sediment clean-up and disposal. FEIS needs to address this concern. DEIS discusses sampling, but does not seem to correlate those findings to earlier sampling done by WERI in the 1990s, which showed some sampling sites with heavy metal concentrations. Research should be done to ensure all earlier sample analysis done with the Water and Energy Research Institute (UOG) is included. Additionally, the sources for the high levels of arsenic in inner Apra Harbor and elevated levels of nickel found in both inner and outer Apra Harbor were not adequately discussed, and there was no discussion on attempts to quell the leaching of those materials from their source.

"The modeling indicated that sedimentation exceeding 40mg/cm², a cited threshold for coral impacts..." (vol. 4, chap. 11, page 52). The sources they have been quoting (Rogers) in 1990 cited "...moderate to severe sedimentation stress...as 10-50 mg/cm²/per day..." (Life and Death of Coral Reefs, Birkland, et al, 1996, page 372, Chapman & Hall publishers). If there is a discrepancy it needs to be addressed.

14

Guam and CNMI Military Relocation DEIS/OEIS

J-014-014

Thank you for your comment. As described in the FEIS, the sampling results and associated sampling locations and depths were representative of the expected dredge material. Sediment samples were taken at depths to -52 feet MLLW, which translates into sediment core lengths of up to 43 feet. On average sediment cores were approximately 11 feet long. Information on sediment depths is included in the FEIS.

e. Corals.

Add to list of human induced damages to corals: (vol. 2, chap. 11, page 9, 5th paragraph). "additional damages are deliberate, such as dynamite fishing, chlorine fishing, destruction of corals in harvesting gastropods and some fishes, deliberate taking of corals and live rock for aquarium use. These activities have been undertaken by all segments of the community, including military personnel. Educational materials must be included in the solution."

Volume 4, chap. 11, 11.2.2.4, page 73: add sub-bullet to first bullet to include: avoid the use of artificial lighting on dredge equipment during summer full moon spawning events.

Table 11.1-3 in vol. 4, chap. 11 indicates the presence of fungia echinata. These corals can be removed and relocated by hand prior to dredging.

If the actions (dredging) are considered necessary for National Interest, as is anticipated, and impacts on coral reefs and coral reef ecosystems in the proposed dredge area cannot be avoided or fully mitigated, then compensation could include a greater role for DAWR in management responsibilities for reef areas in DoD submerged lands and recognition of the designated Marine Preserve in SaSa.

f. Dredging.

J-014-016

The discussion in volume 2, chapter 14, page 8, 14.2.2.6 is disingenuous at best. It separates out the dredging activities for the Marine use while ignoring the other major dredging component of this DEIS, the CVN berthing facility, which is anticipated to occur in the same period. Any assumptions about impacts must be based on maximum anticipated activities, not on individual activities in a vacuum. Cumulative impacts, in this case, would be the impacts from the combination of all anticipated activities.

J-014-017

Why is mechanical dredging chosen over hydraulic dredging? The only reason stated is that mechanical is normally used in Guam. There needs to be a qualitative analysis of the benefits/impacts from each method, and it should be in the FEIS. The statement in Vol. 4, chapter 2, page 23, 2.3.5.1 "Mechanical dredging is assessed as the environmentally conservative method (maximum adverse impact) of dredging..." is confusing. If this is the most damaging method, then it should be rejected.

Vol. 2, chap. 4, page 92, para. 4: "...during extended periods of intense rain, infiltration rates may be exceeded..." These conditions describe Guam for 6 months out of each year, and during periods of tropical storms and typhoons, which occur regularly. Containment of dredged materials at upland disposal sites will require better management practices than the state: "...temporary discharge of storm water may occur." BMPs must ensure they don't occur.

15

J-014-015

Thank you for your comment. Current Navy policy includes orientation programs on natural resource protection for all military personnel.

Under the Navy's standard dredging procedures, dredging does not occur during coral spawning events, as noted in Volume 4, Chapter 11.

Coral transplantation, in addition to other mitigation measures, is being reviewed as an option for coral mitigation.

J-014-016

Thank you for your comment. The combined impacts of the preferred alternative are presented in Volume 7, Chapter 3. This chapter, and the cumulative impacts assessment in Volume 7, Chapter 4 have been updated and revised following public and agency comments on the DEIS.

J-014-017

Thank you for your comments. Mechanical dredging was used for analysis because it represents the maximum potential adverse environmental effect to water quality. Volume 9, Appendix D contains additional information regarding dredging techniques and BMPs. Water generated from mechanically dredged material (i.e., effluent) placed in an upland placement facility would not discharge into sensitive surface waters because infiltration rates of the foundation soils at the upland placement sites are greater than any potential effluent discharge. In addition, runoff generated from rainfall would not be expected to exit the upland placement site due to high infiltration rates. Because dredged material placed in an upland placement facility would be finer and therefore, have lower infiltration rates than foundation soils, trenches would be constructed to allow water to reach foundation soils and facilitate rapid infiltration of runoff. There would be no discharge of

g. Artificial Reef.

J-014-018

Construction of an artificial reef, as suggested in Vol. 4, chap. 4, in no way is equal in resource or resource usage value to a natural coral reef, in the same way than an orchard of planted trees does not equal the value of a forest. The DEIS fails to address the findings that artificial reefs are the preferred habitat for introduced (alien) species. The Bureau does not support any artificial reefs as part of mitigation. An artificial reef is rejected as a mitigation or compensation for loss of natural reef. In addition, any mitigation approved to recover functionality of a lost reef should be accompanied by a commitment to support GovGuam agencies in conducting on-going, 50 year studies of the success or failure of the mitigation. The Bureau recommends using a watershed approach for selection of mitigation projects. DOD must work with local agencies in identifying priority watersheds. It is stated elsewhere in the DEIS that long-term monitoring of reef recovery efforts have not been undertaken or completed. This is an opportunity to begin such a monitoring effort in order to address changes as they occur and to observe recovery methods.

h. Other marine issues.

- 1) Vol. 2, chap. 11, page 54, 1st para, in discussing the use of the Pagat firing range suggests "...and periodic benthic clean up...", but does not suggest any methods for such. As this involves a quality coral reef area, specifics on clean-up methods must be addressed in the FEIS.
- 2) In assessing the intensity of an impact, the consideration of "10. Whether the action threatens a violation of Federal, State, or local law or requirements imposed for the protection of the environment" (Vol 4, chap. 11, page 43, 11.2.1.2), opens the door for introducing local law into the argument and analysis of actions without having to be connected to another process such as Federal Consistency.

J-014-019

3) Vol. 2, chap. 16, page 66, para. 7: "...there would be no impact from marine (ocean) based tourism." This section ignores the fact that 8,600 military and their dependents would also be marine based tourists, with a significant amount taking up diving and snorkeling. Coral reefs and underwater man-made objects (sunken ships) are fragile and can easily be overwhelmed by the friendliest of human encounters. Just like water resources, food resources, job resources — there is a maximum carrying capacity for human interaction with ocean resources. A detailed analysis of the impact of the human equation of these projects should be accomplished and included in the FEIS.

J-014-020

4) Vol. 6, chapter 16, page 2, 16.2.2: "The annual number of vessels visiting the Port of Guam has decreased by 1,902 vessels over the period of 1995 to 2008. It is expected that the addition of up to 12 vessels per year transporting fuel for the power facilities above the average annual number of vessels visiting the Port of Guam would result in less than a significant impact on marine transportation in Apra Harbor". That statement is misleading and disingenuous. It ignores the increase in Naval shipping to support the Marines, it ignores the CVN berthing

16

effluent associated with the upland placement at any of these five possible upland sites and therefore no mixing zones are necessary for this disposal option.

J-014-018

Thank you for your comment. All mitigation options associated with the proposed CVN transient wharf, including the use of artificial reefs and watershed restoration, are being considered by the Navy. When the Navy develops its proposed compensatory mitigation plan, mitigation options contained within the plan will be evaluated by the USACE to determine compliance with the Compensatory Mitigation Rule. It is anticipated that munitions from use of the range would not affect the benthic environment. Text has been revised in the FEIS.

J-014-019

Thank you for your comment. Guam receives over a million tourists per year, many of which participate in marine based recreational activities including diving, deep-sea fishing, and snorkeling. The additional demand from 8,600 Marine Corps personnel and their dependants would not result in a significant increase in marine based recreational activities. Socioeconomic studies conducted during development of the EIS revealed no apparent shortages in marine based recreational carrying capacity.

J-014-020

Thank you for your comment. The number of vessels associated with the relocation of the Marines and their dependents is presented in Volume 2, Chapter 14. In particular, the number of containers to be handled by the Port of Guam during the period of 2008 through 2018 is presented in Table 14.2-1. For the peak year of containers to be handled (2015), there could be approximately 269 container ships visiting the Port of

activities, it ignores the additional commercial shipping needed to support a major population explosion (household goods, food, auto supplies and all other human needs that require shipping for Guam). The FEIS should not, as the DEIS does, break down every element to prove it is not a significant impact when put together to fit reality they do indeed create a significant impact.

Vol. 2, Chap. 14, page 7, 14.2.1.2 states: "if the maximum annual number of vessels that would visit the harbor during the embarkation period exceeds the annual maximum since 1995, then a significant impact to marine transportation may occur. If the maximum annual number of vessels that would visit the harbor during the embarkation period is equal to or less than the annual maximum number of vessels since 1995, then there would be a less than significant impact to marine resources." There is a fallacy in this statement in that it assumes that there was no significant impact to marine resources in the maximum year of 1995—without justifying that assumption. It also assumes that a continuous arrival rate equal to that maximum year is equal to that maximum year's impacts. It ignores cumulative impacts.

J-014-021

5) The reasoning that the turning basin for the carrier berthing is necessary because "carriers can't back up" would appear specious, given that the carriers will have to do some amount of backing up even with the plans in the DEIS.

J-014-022

6) FEIS should explain why total suspended solids was chosen over turbidity in analysis.

J-014-023

5. Firing Training Range

The DEIS must evaluate all of DOD's land holdings and take into consideration joint basing for the live fire training facility. Any consideration of expanding DOD's land holdings through the acquisition of additional private or Government of Guam land must be an option of last resort.

For example the alternative to locate the Firing Range for the Marines at the present Naval Facility at Finegayan on the west coast should be re-considered in the Draft Environmental Impact Statement analysis of this undertaking. This particular alternative was shown, and therefore considered, in the Guam Integrated Military Development Plan 2006. This alternative was taken out completely of the DEIS of November 2009. According to responses to the media by JGPO's Bice and Jackson, that alternative was removed in response to the government of Guam's concerns. However, the West Coast Pagat/Sasayan Firing Range alternatives were not presented to the government of Guam at that time. Because the previously proposed Firing Range at Finegayan on the west coast was an alternative that was considered in the planning process, this alternative should be further considered and compared to the now proposed Firing Range alternatives in the Pagat/Sasayan area of Guam's east coast.

Because the Finegayan Range Alternative analysis was not included in the DEIS, we do not believe the DEIS is really looking at all reasonable alternatives to avoid adverse

17

Guam compared to 165 container ships in 2008. In 2015, if there are 269 container ships and 150 vessel trips by tugboats and scows to dispose of dredged material removed to support the berthing of the aircraft carrier in addition to the other commercial vessels visiting the Port of Guam, there would be about 1,500 fewer vessels than there were in 1995.

The arrival of commercial vessels to the Port of Guam is scheduled by the Port Authority of Guam to make sure that the port's facilities can accommodate the ship as it arrives. The proposed improvements to the facilities of the Port of Guam (as presented in Volume 7) will provide the facilities to support the relocation of the Marines.

J-014-021

Thank you for your comment. A turning basin is needed to provide sufficient maneuver area for an aircraft carrier to be pivoted and then berthed on its starboard side. The tugboat assist accommodates a "pivot-in-place" action to turn the aircraft carrier, minimizing turning basin size. Without the tugboats the turning basin would be significantly larger to support the aircraft carrier turning on its own design radius. Because wind and waves exert uncontrolled additional forces on aircraft carrier movement in a harbor, tugboats are required to guide the aircraft carrier into a starboard position parallel to the wharf as well as assist during its departure.

J-014-022

Thank you for your comment. The Final EIS now reflects turbidity.

J-014-023

Thank you for your comment. The DEIS describes the intensive selection process that the DoD went through to select alternatives for the location of the firing range on Guam in Section 2.3.1. Specific reasons why the firing range could not be located on the west coast at Finegayan include

environmental impacts as required by the NEPA process. The adverse impacts of the Pagat/Sasayan Alternative may actually be more significant and not as able to be mitigated as the Finegayan alternative. Adverse impacts for the Pagat/Sasayan Firing Range Alternative include: 1. Increased traffic on local roads due to Marines having to travel to the training site from the main Marine Cantonment; 2. Loss of the Guam Raceway Park as a recreational area for the local population; 3. Denial of unimpeded public access to the Pagat Cultural Historic Site, and surrounding nature areas; and 4. The taking of Guam's public lands for a military activity.

The DEIS also did not present its analysis of all alternatives considered. This was noted in Volume 2, Pg. 2-61, Section 2.3.2.5 Firing General Military Skills Training Alternatives, Live Fire Training Ranage Complex. "The Step 2 site selection candidates for live-fire training ranges were initially limited to DoD lands and included NCTS Finegayan, expansion of Andersen AFB Tarague Beach Rifle Range to the west, Andersen South, NWF (Andersen AFB), Air Force Barrigada, Orote Peninsula, and NMS. All of these individual DoD candidate sites were dismissed due to not meeting feasibility criteria for compatibility with future missions. After the initial review of individual DoD parcels' capability for meeting firing range requirements, the analysis was expanded to include non-DoD lands on the west coast, east coast and a combination of east and west coasts. The East-West and the west coast alternatives described in Table 2.3-7 were eliminated following advice of the office of the Governor. The amount of submerged land that would be encumbered by the SDZs generated by the ranges on the west coast would an unacceptable impact on recreational activities and traditional fishing areas, which are prevalent on the west coast. Step 2 site selection therefore identified only one feasible site for the live-fire Training Range Complex". DOD must provide the analysis of the alternatives considered and why they were not selected should be included in the DEIS for our review. How then can we evaluate if the analysis of alternatives was adequate and justified?

We know the Finegayan Firing Range Alternative will impact the fishing and charter boat community. However, this impact can possibly be mitigated to a Less Than Significant Impact (LSI) by measures such as scheduling of firing Range and redesign of layout trajectory. Rather it appears that in order to maintain a certain standard for housing and facilities for the main cantonment, standards that affect the quality of life for personnel and their families, the DOD will not consider siting the firing range training on DOD properties, as previously promised by JGPO representatives. However, the selection of the current alternatives in the DEIS will have a significant adverse effect on the quality of life and land holdings of local residents!

DOD must provide re-designing cantonment housing and facilities layout and design to reduce their footprints in order to accommodate the firing range. Housing units must be designed to accommodate multi-family units instead of single family housing to reduce footprint and need for additional land. Additionally, the analysis should also seriously consider the other alternatives that site the Army Air Missile Defense Task Force housing at Barrigada in order to leave more land for a firing range in Finegayan.

18

Guam and CNMI Military Relocation DEIS/OEIS

the following. There was concern that the amount and location of submerged land that would be encumbered by the SDZs generated by the ranges on the west coast would be an unacceptable impact on recreational activities and traditional fishing areas, which are prevalent on the west coast. Secondly, higher density civilian development in vicinity of ranges increases risk of encroachment. Discussion on the screening process associated with the firing ranges has been clarified in the FEIS.

The DEIS must evaluate all of DOD's land holdings and take into consideration joint basing for the live fire training facility. Any consideration of expanding DOD's land holdings through the acquisition of additional private or Government of Guam land must be an option of last resort. If additional land has to be acquired, then the DEIS must examine island-wide all potential areas and the scope of that examination be limited to lands within the central and northern portion of Guam that are readily suitable for future residential and commercial development. In light of Guam's small geographic size, travel time and development costs should not be a consideration in assessing and ranking potential non DOD properties for the live fire training facility's site.

J-014-024

6. Mitigation Issues

FEIS should provide assurances that mitigations will be comprehensive and sustainable. The DEIS is completely lacking in detail as to which mitigation techniques are preferred, or may be employed, which makes it virtually impossible for the relevant agencies to assess their effectiveness. There are two distinct areas in which mitigations will have to be undertaken; impacts on the natural environment and, impacts on the community. The approaches to each are distinct.

 Natural environment. The goal of mitigation is to restore and protect the functions of the impacted environment or ecosystem. It means taking a watershed approach to restoring the conditions which will allow for a return of natural functionality.

There are three avenues for approaching mitigation; Permittee (DoD) responsible mitigation, mitigation accomplished through a Conservation Banking system and, in-lieu fee mitigation (where the permittee provides funding through a government or non-profit organization to ensure mitigation. There is currently not a conservation banking system in place for Guam, and the development of a legal framework necessary to create such a system is not realistically feasible to address the almost immediate impacts of the proposals in the DEIS.

Permittee responsible mitigation will certainly be necessary in some cases, but past actions by DoD (Orote and Haputo Ecological Reserves as mitigation for construction of Kilo Wharf), indicate a less than desirable outcome from this approach. The resources of Guam have sustained human communities for more than 4,000 years and DoD has shown, over the period of 112 years that their concerns for the island, its people and its resources, come and go with time. Impacts on natural resources as drastic as those envisioned by the DEIS require a long-term concern for mitigation. As Dr. Robert Richmond says, "A fifty year old coral cannot be replaced in less than 50 years." It is recommended that a watershed approach and off site projects be selected as appropriate mitigation projects.

The Bureau supports In-lieu fee mitigation as the preferred alternative for a majority of natural resource mitigation. This system would not only result in a holistic approach to function restoration mitigation, but would create an endowment for long term monitoring and management of the mitigation. This is, in fact, the only approach of the three that could produce a true and comprehensive mitigation for habitat damage. It can be argued

19

Guam and CNMI Military Relocation DEIS/OEIS

J-014-024

Thank you for your comment. Mitigation measures are proposed in the EIS. Mitigation measures committed to by DoD would be identified in the Record of Decision (ROD). Measures in the ROD would be implemented to reduce impacts associated with the proposed military relocation. Additional study of mitigation and compensation for impacts to coral reefs has been undertaken between the publication of the Draft and Final EIS. More information on watershed management mitigation is included in the Final EIS. This information is included in Volume 4 and Volume 9 (Appendix) of this Final EIS. As also indicated in the Draft EIS, support of an in-lieu fee is a viable option for compensation that DoD is considering to mitigate impacts on coral resulting from the proposed actions.

that there is not currently a system in place for this approach, but unlike conservation banking, an in-lieu fee system can be put in place rather quickly with existing resources. A regional NGO (Micronesia Conservation Trust) has close ties with The Nature Conservancy which has had experience over-seeing in-lieu fee mitigation projects within the United States. The Federal Government has had experience working with the Conservancy on such projects. The Trust would receive Federal monies to pass through to private sector and/or government entities to undertake the mitigation projects, and would be responsible for ensuring long term monitoring and management.

The DoD argument against this is that it would take time to certify the Trust and to get the system in place. At the same time, DoD is demanding that short cuts be taken in the permitting system for the projects they want. If DoD believes it deserves to be able to compress review times and permit times, then DoD should accede to the need for creating an in-lieu fee system to protect the long-term needs of Guam's natural resources.

In order to ensure mitigation is in fact assisting the natural resources in recovering, DoD should abide by Section 1704 (a) of the Organic Act of Guam. To wit: "Except as otherwise provided by law, the governments of the Virgin Islands, Guam, and American Samoa, shall have concurrent civil and criminal jurisdiction with the United States with regard to property owned, reserved, or controlled by the United States in the Virgin Islands, Guam, and American Samoa respectively." DoD has, at times, been a good partner in undertaking concurrent jurisdictional responsibilities. Too often they have not been a good partner, denying access to Government of Guam biologists, enforcement personnel and others with their own responsibilities for natural resources. It is well past time for those in charge of the military bases to begin behaving as if Guam were their home too, not simply a possession, and to understand that their being a good partner is essential to the health and well being of this American community.

J-014-025

2) Community Impacts. All of the infrastructure and social impacts described in the DEIS are questionable (particularly those that are judged to have no significant impacts) in part because of the use of straight-line projections to base their impacts on. The need for rapid development of all infrastructures, followed by a greatly reduced need for what was developed, cannot possible result in no-significant impacts. A great part of the cost of infrastructure development will be borne by the Government (people) of Guam with a reduced population base for repayment of bonds and other instruments after 2014.

The explosion in the numbers of military personnel, H-2b workers and other temporary residents associated with the construction period cannot possible have no significant impact on prostitution, social diseases, and crime rates beyond what is based on simple straight line projects resulting from numbers of people (rather than numbers of people and rate of population increase).

When a significant percentage of the civilian population is suddenly and perhaps permanently displaced and fenced off from their culture and history, straight line

20

Guam and CNMI Military Relocation DEIS/OEIS

J-014-025

Thank you for your comment. Socioeconomic issues are addressed in the socioeconomic chapters of the DEIS; a Socioeconomic Impact Assessment Study (SIAS) is also provided in the DEIS as Appendix F of Volume 9.

It should be noted that the approximate figure of 80,000 represents the maximal population increase over the existing baseline year. It occurs in 2014 when the construction workers from off-island are still there and the military and their dependents arrive. After 2014, the population from the proposed action decreases. By 2017, the increase population reflects the permanent military population, their dependents, civilian federal workers, and the induced (or indirect) population of about 33,000 people. Population density if averaged over the entire Guam land area is expected to increase as a result of the proposed action; however, population densities are likely to be greater in some areas (i.e., Finegayan) and lower in southern Guam.

DoD recognizes that the proposed military buildup would generate revenue to the government of Guam. However, the use of that money is not within DoD's purview. It is within the authority of the executive and legislative branches of Guam to determine and authorize funding for public health and safety. Public services and assistance required from Guam would primarily apply to the military civilian workers and their dependents and the induced population. These additional services, facilities, licenses, and schools, would be supported by the additional money collected by Guam from the new population. This money would come from taxes, licenses, permits, user fees, and other local fees that would go to the general revenue. If the services provided by Guam in the areas of utilities, infrastructures, social and health care, public schools, protective services, are inadequate (this is noted in the SIAS), the income (from the new population) will not be able to pay for all the required needs, especially any capital improvements.

projections on increased mental health problems cannot possibly reflect the truth of what is about to occur.

Other impacts can be resolved by DoD. For example; providing access to important cultural sites on a regular basis, and a strict enforcement against vandalism of the sites by on-base personnel, would go far in helping a culture retain its identity and its health.

Still other social impacts can only be resolved by money — and not in the form of a promised reimbursement that never occurs. The DEIS went out of its way to state that DoD could assist GovGuam in identifying impacts of the Compacts of Free Association with the neighboring sovereign island nations in order to be reimbursed more compactimpact funds. It is the impacts of Guam's association with the United States that need the most immediate impact aide. The Federal Government should provide up front monies to the Government of Guam, not only for infrastructure development, but for the immediate hiring and training of personnel needs (nurses, doctors, teachers, permit/enforcement/monitoring personnel, etc) identified by the DEIS itself. Educational materials on Guam's natural and cultural resources, on Guam's community and laws, should be prepared by the people with the greatest knowledge. DOD should work with the Government of Guam to develop material.

The DEIS suggests several times that Guam could charge impact fees to developers. In this case, DoD is the developer, but volunteering to pay such fees was not mentioned.

DOD must provide in greater detail on activities and on preferred mitigations in the FEIS. The Bureau request that ROD not be issued until agreements, at least in principle but preferably in detail, have been reached for mitigations. These agreements should not wait for the permitting stage because, in some cases, the public would lose the right to review at that point.

Should these projects go forward, there are no guarantees that DoD will follow through with the mitigations necessary. Past history (development of Orote and Haputo Ecological Reserves) has shown a reluctance to follow the spirit of the agreements. At the least, the ROD should identify methods for assuring compliance to both the letter and the spirit of mitigation agreements.

J-014-026

7. Submerged Lands Issues

The proposed Surface Danger Zone and Special Use Airspace designations proposed for the Guam Territorial Waters adjacent to Pagat are not operated as National Defensive Sea Areas, as the Courts affirmed the U.S. retained rights to, and because they would prevent public uses of this public resource, must be considered as a taking.

Surface Danger Zone Overlay on Pagat submerged lands. The DEIS suggests that, with the use of Pagat lands for firing range activities, two restrictive overlays be placed on the submerged lands adjacent to the fast lands, and on the airspace above the lands and submerged properties. The submerged lands, from mean low water seaward to a distance of 3 nautical miles, are the property of the people of Guam through the Government of Guam. Should the DoD declare a Surface Danger Zone and Special Use Airspace

21

DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

During the DEIS comment period many recommended mitigation measures were provided; the FEIS has been revised to include expanded discussions on mitigation measures.

J-014-026

Thank you for your comment. As described in Volume 2, Section 8.2.3, Surface Danger Zones (SDZs) over navigable waters are controlled by the Army Corps of Engineers, which would publish a rule in the Federal Register per CFR Title 33 Navigation and Navigable waters, Part 334, Establishment and Amendment Procedures in the Federal Register. In accordance with 33 CFR 334.4, designated areas encompassing the SDZs are restricted to navigation during periods when the ranges are in use. A Notice to Mariners would be issued for every day the range is in use.

The Final EIS describes the impact of restricted access to submerged lands as significant. The Coastal Zone Consistency assessment that was submitted to the Bureau of Statistics and Plans, also describes the impact to land and submerged lands beyond the base boundaries. It is the intent of DoD to maintain public access to the submerged lands within the SDZ consistent with safety and operational requirements. At this time, there are no proposals to compensate Guam for the use of the submerged lands.

overlay as proposed, the action would be viewed as a taking without compensation. While the Organic Act gives the U.S. authority to declare such areas as National Defensive Sea Areas, such are used to control non-U.S. vessels within the area — not to close the areas to all non-DoD use.

Table 3.3-18 in Volume 7, chapter 3 of the DEIS indicates there is less than significant impact on non-DoD submerged lands resulting from the project. The inability of the residents and rightful owners of the submerged lands for innocent passage and the right to harvest resources within the submerged lands is a highly significant negative impact. For some, access to fishing is a source of income, for others a source of food, and for others a source of recreation and family gathering. Will the residents be compensated for that loss? Although the fast lands maybe leased by private owners or the Government of Guam, the submerged lands are under the jurisdiction of the local government.

There is at least a partial solution to this issue. Guam has a legal framework in place to lease submerged lands (E.O. 85-6).

Statements in the DEIS, reiterated several times, that: "Federal actions on federal lands/submerged lands are subject to Base Command approval, but are not required to conform with State land use plans/policies" are not only false, they are a reflection of the attitude that makes community support for DoD so difficult. All activities on federal lands which may have an effect beyond the borders of those properties are subject to a great many State policies, such as Federal Consistency and NEPA policies under state agency responsibilities. This is particularly true of actions on submerged lands where water columns move with regularity between federal and state water boundaries. The same is true for Wildlife Refuge Overlay lands. Again, Section 1704 (a) requires concurrent jurisdiction on Federal lands.

J-014-027

8. Cumulative Impact Analysis:

The cumulative impact analysis presented in Volume 7 is greatly inadequate. Rather than describing specific impacts of each project and how the additive impacts of multiple projects may affect a resource within a given area, a table summarizing all the on-going and proposed activities is provided. The cumulative impacts are never really analyzed at any level of detail, yet these impacts are of great significance for Guam's biological diversity, ecosystem function, and social well-being. A thorough description of cumulative impacts and a commitment to mitigating these impacts must be presented in the FEIS.

Rather than describing impacts in detail, a simple table is provided summarizing the impacts of all proposed activities on a range of general resource categories. The cumulative impacts are of great significance for Guam's biological diversity, social well-being, and ecosystem function, but this importance is evidently not shared by the DEIS authors. A thorough description of cumulative impacts and the required mitigation must be provided in the FEIS.

22

Guam and CNMI Military Relocation DEIS/OEIS

J-014-027

Thank you for your comment. The cumulative impact analysis contained in Volume 7, Chapter 4 of the Final EIS has been expanded in response to public and agency comments.

J-014-029

9. Population Issues:

The DEIS is inaccurate and does not fully describe the assumptions related to population projections especially regarding the FAS (Freely Associated States). Section 4.2.1.2: In reviewing the "Draft Socioeconomic Impact Assessment Study (SIAS)", it is not evident from the report how the number of dependents such as school-age children were calculated based on the assumptions made. No information is shown on the number of households, families, and the family composition of in-migrants. In order to properly review the Draft SAIS, a technical documentation report showing how the numbers were derived is needed. The Draft report only describes the assumptions and the results, not how the assumptions are applied to reach the results.

A description of who will comprise the "indirect/induced workers" and what sort of jobs they represent is lacking. Also missing is an analysis of the relationship between the "indirect/induced workers" and the Government of Guam's "outside the fence" population increase (primarily, non-construction workers with dependents who come to take advantage of economic opportunities). The Draft SAIS has the "indirect/induced workers" increasing, and then decreasing. This would suggest that they are not the "outside the fence" population increase due to economic opportunities following the buildup.

GENERAL ISSUES:

1. Lack of Quality in the information provided in the DEIS.

Given the amount of time the authors alleged they spent on Guam (example; claimed 7,000 hours of dive time), the dearth of information on Guam's resources is disturbing

- a. "At the time of its listing as endangered in 1987, there were only two known native mature fire trees on Guam, located in limestone forest at Andersen AFB (Andersen AFB 2008a). In 2002, super typhoon Pongsona uprooted one mature tree. The second mature seed-bearing tree was above Ritidian Point in limestone forest on Andersen AFB. Subsequent to the typhoon, seedlings were observed around the felled tree, but it is currently unknown if any wild seedlings still exist. In 2000, 67 fire tree seedlings were planted in three locations: (1) Area 50, (2) the MSA, and (3) Tarague Beach. The number of outplanted seedlings that have survived is currently unknown (Andersen AFB 2008a)." The tree in question is listed as endangered, it would seem imperative that its existence be verified before planning for the destruction of habitat.
- b. There is almost a complete absence of information relating to traditional medicinal plants within areas planned for clearing, construction or closure to the public. This glaring omission results in more than just poor information gathering, or an incomplete plant inventory, but highlights the lack of concern shown in the DEIS for the culture and traditions of the Chamorro people.

23

Guam and CNMI Military Relocation DEIS/OEIS

J-014-028

Thank you for your comment. The Socioeconomic Impact Assessment Study (SIAS) provides ranges of dependent ratios which are based on weighted averages of different dependent ratios relating to in-migrants from multiple origins. This resulted in two scenarios, the unconstrained and constrain conditions. This provides a likely range of populations given the construction and relocation timeframe. Please see Section 4.3.1.2 of the SIAS for information on probably sources of labor supply.

J-014-029

Thank you for your comment. Information on the known remaining Serianthes plants in forests on Guam has been updated in the FEIS. Regarding medicinal or otherwise culturally important plants, information on the use and locations of these plants can be found in Chapter 12, Cultural Resources. The FEIS has been updated to note that a salvage and re-use plan for plants would be developed or required of contractors before clearing began. In addition, the cultural resources section of the FEIS has been updated with an expanded description of culturally important plant species.

c. There was virtually no analysis done of the impacts on existing non-DoD recreational facilities (popular beaches, dive sites, hiking trails, etc) from the projected 44% population increase between 2010 and 2014, or the more permanent 19% directly induced population increase thereafter.

J-014-031

d. "If the maximum annual number of vessels that would visit the harbor during the embarkation period exceeds the annual maximum since 1995, then a significant impact to marine transportation may occur. If the maximum annual number of vessels that would visit the harbor during the embarkation period is equal to or less than the annual maximum number of vessels since 1995, then there would be a less than significant impact to marine transportation."6 This statement makes an assumption without defense, that the maximum vessel visits in 1995 did not create a harm to the marine environment. It also makes the assumption that a regular number of vessel visits at that maximum number would have the same impact as that one year activity had. It was difficult to find anywhere in this section where the DEIS accounted for additional shipping necessary to accommodate the needs of (first) 79,000 new residents and the indirect population growth that would accompany them, or the 34,000 more permanent residents and the indirect population growth associated with them (household goods shipments, additional food, automobile, etc. for the increased population).

J-014-032

2. Incomplete information in the document.

The Guam Buildup DEIS is an incomplete document, with significant information gaps, flawed data, errors, and inconsistencies. It is understood that there are on-going studies, the results of which did not make it into the DEIS. The document also contains information/statements based on data collected using flawed or inappropriate methods (see detailed comments below). It is unclear how the environmental impact of a full range of viable alternatives can be adequately assessed and a preferred alternative selected without the information collected in these studies, or with the poor quality data evident in certain volumes. The lack of detailed information for certain projects may have been intentional, as it is generally understood that the DEIS is supposed to be a hybrid document that approaches some projects at the programmatic level, while delves into more detail for "construction-ready" projects for which this detailed information is available. However, it is not at all clear which projects were intended to be approached programmatically. In some cases, however, such as with the CVN berthing project, it appears as though an effort was made to provide the level of detail necessary to implement the chosen course of action immediately after issuance of the Record of Decision (ROD). But as mentioned above, this level of detail was not successfully achieved within the rapid timeline and it appears that the selection of the preferred alternative was chosen in the absence of all relevant data, and aside from an analysis to determine the least environmentally-damaging alternative.

J-014-033

3. Action alternatives are not sufficiently different.

There is a general lack of alternatives for the proposed actions. The DEIS fails to examine a range of reasonable alternatives and does not provide an adequate explanation

24

J-014-030

Thank you for your comment. At the outset of the EIS, it was not believed that a carrying capacity study for the recreational resources was needed. As impacts were assessed, it became apparent that such a study should be conducted; therefore, a mitigation measure was included in the EIS for a carrying capacity study to be performed.

J-014-031

Thank you for your comment. Information on the number of container ships and break-bulk cargo projected for the Port of Guam through the year 2027 is presented in Section 4 (Cargo Forecasts) in the Jose D. Leon Guerrero Commercial Port of Guam Master Plan Update 2007 Report (dated April 2008) prepared by the Port Authority of Guam.

J-014-032

Thank you for your comment. In accordance with the National Environmental Policy Act, the EIS contains a comprehensive analysis of potential impacts of the proposed actions and alternatives. Additional studies have been completed following preparation of the Draft EIS; the Final EIS has been updated with this information. Furthermore, revisions have been made to the EIS based on comments from agencies and the public. In addition, a chapter has been added to Volume 1 (Chapter 4) summarizing changes made to the Final EIS. Consequently, the Final EIS contains sufficient information for the decision maker to make an informed decision.

J-014-033

Thank you for your comment. The alternatives selection process in Volume 4 for the CVN berthing and for the live fire range in Volume 2 have been expanded to include more information on why certain alternatives did not meet the purpose and need for the action. Both

as to why other alternatives were eliminated from full consideration. As such, we believe the DEIS does not fulfill the requirement to "rigorously explore and objectively evaluate all reasonable alternatives, and for alternatives which were eliminated from detailed study, briefly discuss the reasons for their having been eliminated (40 CFR §1502.14)."

Three of the preferred alternatives need further justification. 1) the choice of developing the carrier wharf at Polaris Point rather than the SRF site was not well justified, in that the SRF site would result in a lesser degree of damage to corals. 2) location of the firing range. If the only justification for not choosing the Finegayen site is the footprint of the Surface Danger Zone, then further discussions on why the layout couldn't be altered to configure the danger zone away from shipping lanes should be discussed. Other sites at Andersen should also be investigated and analyzed. 3) configuration of the cantonment area. Option 1 would require less total property, and less destruction of the wildlife refuge overlay. The inconvenience caused by separating functions onto different properties should not be adequate justification for the negative impacts caused by the preferred alternative. This last point is of particular concern because the preferred alternative does not appear to be the least environmentally damaging alternative. Clean Water Act guidelines state: The applicant bears the burden of clearly demonstrating that the preferred alternative is the least environmentally damaging practicable alternative (LEDPA) that achieves the overall project purpose, avoids impacts to the aquatic environment, and does not cause or contribute to significant degradation of waters of the U.S. [404(b) (1)]. (emphasis added).

J-014-034

4. Consistent, systematic bias towards underestimating impacts

The sum of a variety of inaccurate or unsubstantiated statements, methodological decisions, missing data, and other aspects of the manner in which the DEIS addresses impacts to marine resources are systematically underestimated. Ultimately, the consistent underestimation of the value of these resources translates into an egregiously inappropriate scaling of compensatory mitigation. This bias is most evident in the discussion of impacts as a result of dredging associated with the dredging of the CVN wharf and turning basing (volume 4, Ch. 11), but it also affects the level of impacts assessed for other proposed activities. Specific examples of this bias, which are explained in further detail in the specific comments section, are as follows:

- a. Exclusion of all reef area deeper than 60 ft from any consideration
- b. Exclusion of all non-coral habitat in HEA calculation
- c. Exclusion of macroinvertebrate communities in HEA calculation
- d. Exclusion of reef fish communities in HEA calculation
- e. Claimed of benefits of artificial substrate
- f. Claimed of benefits of non-native species (e.g., increases biodiversity)
- g. Significant underestimation of indirect impacts
- h. Misrepresentation of literature to minimize indirect impacts
- Flawed sediment plume model (e.g., data from only two days, model was run for maximum of 24 hours, cumulative impacts were extrapolated)
- j. Uniqueness of marine community within CVN Berthing impact is not recognized

25

Guam and CNMI Military Relocation DEIS/OEIS

volumes also include discussions of the Least Environmentally Damaging Practicable Alternatives.

J-014-034

Thank you for your comment. The Navy does not agree that data collection and analysis was biased. The Navy collected a robust data set to include coral distribution, benthic cover, fish biomass, and fish and invertebrate species abundance. A standard functional assessment technique that accurately characterized and quantifies losses and gains of coral aquatic resource functions, would ideally be used. However, functional assessment methodologies are an evolving science and the adequacies of existing methodologies are heavily debated in the scientific community. Resource agencies have conceded that the Navy's methodology is valid, but not their preferred method.

Responses to the specific comments mentioned are addressed in various comment responses throughout this Volume.

- Marine biodiversity is not adequately assessed and is significantly undervalued
- 1. Cumulative impacts analysis is extraordinarily weak
- m. The anticipated impacts of climate change are not at all considered
- n. Unsubstantiated, and overly-optimistic reef recovery rates are used
- Older studies from Guam or those from other locations are used to support assumptions (e.g., recovery rates) rather than more recent work conducted on Guam
- p. Impacts (increased harvesting pressure, increased recreational impacts) to reef resources occurring off DoD property as a result of the massive population increase are not at all considered

J-014-035

These and other failings must be addressed in the FEIS. It is our belief that cost to collect the required scientific data and the cost to adequately mitigate for the lost function of the impacted reef resources will increase the project's costs by an order of magnitude or more. Thus, alternatives not currently under consideration should be thoroughly investigated, and a cost-benefit analysis be presented transparently in the FEIS.

J-014-036

J-014-037

5. Impacts are too easily dismissed as being not significant.

It is remarkable that, given the scale of actions suggested by this DEIS, that virtually every impact is excused as being not significant because they will be mitigated (by mitigations never discussed or hinted at, other than to say DoD will use BMPs).

- a. Road improvements are planned for that would not provide mitigation for an expanded impervious surface. Newly paved shoulders are not, in the opinion of DoD, a widening of the road, and would therefore not require storm water controls. The fact that they will create additional storm water runoff over the existing roads does not seem understandable to the authors of the DEIS. The definition of widening is: to increase the width, scope, or extent of <widening the road>(Merriam-Webster Dictionary). By adding shoulder you are widening the road.
- b. Many of the impacts identified throughout the DEIS (including the need for more professionals in many areas, or the costs of infrastructure), are defined as having no significant impact because there would be a flow of new money into the economy to pay for the impact. This attitude is particularly common in the discussions of social impacts. In fact, some of the anticipated problems may occur because there is a flow of new money (prostitution, crime, etc.).
- c. One of the impacts of the population increase that will occur, primarily in the northern portion of the island, directly attributable to the military build-up, is that the villages will surpass the population limitations for some USDA rural grants. These villages cannot make up those grant monies through property taxes, as may be the case in the U.S., because property taxes are collected on an island wide basis, while the rural grants are applied directly to the

26

J-014-035

Thank you for your comment. Information on additional studies and discussion on impacts to coral resources and potential mitigation has been updated in the Final EIS. This information is included wthin Volume 4. Additionally, DoD would commit to a compensatory mitigation program for coral loss during the permit phase under Section 404 of the Clean Water Act.

J-014-036

Thank you for your comment. To address potential impacts of all project types, roadway-specific BMPs would be included in the planning, design, and construction for all proposed projects, regardless of project types. This includes projects that involve addition of shoulders. To start construction, regulations set forth by GEPA require a grading permit and a stockpiling permit to be obtained from the Guam DPW. The permits require development of an Erosion and Sediment Control Plan required for clearing, grading, grubbing, embankment or filling, excavation, or other earth-moving operations. This plan would also describe construction site BMPs to be used during construction to minimize the impacts of construction and construction-related activities on the watershed. These include, but are not limited to, temporary soil stabilization, temporary sediment control, scheduling, waste management, materials handling, and other non-stormwater BMPs. During construction, work within or adjacent to floodplains would be equipped with appropriate stormwater control BMPs to prevent spills from occurring within the waterways, debris from entering the waterway, and erosion from occurring within the streambed. Water would be diverted away from any construction activities using appropriate water diversion BMPs.

J-014-037

Thank you for your comment. Please see Section 4.4.1 of the Socioeconomic Impact Assessment Study (SIAS), which is Appendix F,

receiving community. The DEIS should include a listing of all federal grants or other monies impacted by the actions proposed, including new monies which may become available because of the actions. This requires federal inter-agency cooperation in compiling the material.

J-014-038

d. In discussing the impacts of lights for dredging, the DEIS completely ignores the impacts of lights during coral spawning periods (it addresses dredge equipment lighting in relation to turtle nesting periods), and it completely ignores the impacts or potential impacts of shore based light pollution during these periods.

J-014-039

e. The whole listing of problems created by the presence of the Marines on Okinawa, (Vol. 2, Chapter 16, Section 16.1.6.1), will apply equally to their presence on Guam, yet the DEIS makes the assumption that those problems will disappear with the relocation of the Marines from Okinawa to Guam.

These problems include:

- I) Hindering regional economic development. This is a problem Guam experienced with the military from 1898 thru 1962. With additional constraints on land, sea and airspace promised in the DEIS (Pagat project in particular), this promises to remain a problem as economic development will occur in reaction to military plans, not public plans.
- 2) Noise pollution. It is impossible to understand how the addition of Cobra, Huey, Super Stallion and Osprey rotary aircraft could not increase the noise contours in the northern section of Guam, particularly those private residences close to the base.
- Environmental damage has also been cited. Reports claim that highly carcinogenic materials (fuels, oils, solvents, and heavy metals) are regularly released (Okinawa Prefecture 2004). Training exercises using live ammunition have caused forest fires, soil erosion, earth tremors, and accidents. Among the results, soil runoff has polluted the coral reef.

It is true they will disappear for the people of Okinawa, but that is only transference of the problem. If the DEIS had addressed those problems more forthrightly, rather than just hoping them away, a great deal of the concerns could have been resolved.

J-014-040

6. Attitude toward cultural/historic properties. Throughout the DEIS there is an underestimation of the importance of culture, cultural properties and historic sites on Guarn. The brief, one line statement about the use of medicinal plants by suruhanas does nothing to address the impact of the loss of access to, or destruction of traditional medicinal plants on the culture.

The declaration in Volume 4 (8.2.1.1) that "Other owners who do not want to sell their property (or relocate) would be likely to consider the forced sale or relocation as an adverse impact even though they are properly compensated", is an indication of the lack of knowledge regarding land-use and culture on Guam. For many Chamorros, including

27

Volume 9 of the DEIS for information on the expected impacts the proposed action would have on the government of Guam's (agencies) staffing requirements. The analysis in the SIAS includes both direct and indirect impacts including those who move to Guam for work related to the proposed action. Another study, funded by DoD's Office of Economic Adjustment is underway, this is the Fiscal Impact Assessment that identifies the needs of the government of Guam and where the money to fund the needs could come from.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-014-038

Thank you for your comment. Under standard Navy dredging procedures in Guam, dredging would not occur during peak coral spawning periods. It is anticipated that this would be proposed as a special condition under the Section 404(b) CWA USACE permit for dredging in Apra Harbor.

There is no data to support that artificial light influences coral spawning.

J-014-039

Thank you for your comment. There are many reasons why the Marines (about half) are being moved from Okinawa. This discussion is provided in section 3.5.2 of the Socioeconomic Impact Assessment Study (SIAS) that is in Appendix F, Volume 9 of the Draft EIS. Serious crimes by military personnel in Okinawa are committed at a lower rate than the overall civilian population in Okinawa, despite reports to the contrary.

the owners of Pagat, the land is more than just an investment to be cashed in (as is the case in western societies). Many of these families have been on that land for many hundreds, if not thousands of years. There is no proper or just compensation which could be made in taking these properties.

In volume 5 (9.2.2.1), the statement that Haputo and Guam National Wildlife Refuge would be off-limits to non DoD affiliated persons and their dependents, is a much stronger statement than seen anywhere else in the document. There are cultural sites within these areas that are of importance to the Chamorro people and to deny access to the real owners of these sites while opening them to groups with no stake in them and (as stated repeatedly within the DEIS) would increase vandalism of the sites, demonstrates a lack of understanding and care for local people.

Volume 6 (6.2.3.1) states that the cave and pool systems along the northern shoreline "may be considered jurisdictional waters of the United States." If those caves are landward of the mean low water line, and there is any connection between water supplies in those caves and water supplies within the aquifer itself, then by virtue of the Organic Act GovGuam has, at least, cooperative jurisdictional rights. Additionally, many of those caves contain human or human related artifacts that are culturally sensitive and should be properly managed to protect those resources.

Throughout the document there are statements to the fact that cultural and historic sites would be placed off-limits to non-DoD personnel and their dependents, while admitting that there will be increased vandalism. Part of the problem is that the cooperative management agreements between Guam Historic Preservation Office and DoD that are called for in the Organic Act are not being honored. If those properties are to be placed off limits to the culture they belong to, then they should also be placed off limits to DoD personnel and their dependents. In addition, no matter what happens with access by the culture, professional staff from Guam HPO must be allowed access in order to inventory, assess, document and protect the resources.

DOD must provide a development of an historic/cultural plan for those resources within DoD lands, to include a method of access to the most important sites (Pagat caves, others), a protection plan, and a plan for a cooperative monitoring, management, recordation system which includes both Guam HPO and DoD HPO.

Vol. 8, chapter 5, 5.10.2 reiterates DoDs assertion that they will require "long term restriction from potential traditional cultural properties as a result of training and safety requirements". DoD must, as partial mitigation for this intrusion on the rights of the indigenous people, develop a system whereby those properties identified as significant can be visited on a scheduled basis. If not, then those sites should also be placed off limits to the military and their families in order to prevent the vandalism the DEIS assumes will occur from that group. In any case, Guam historic preservation experts within Department of Parks and Recreation should have access to these sites for data collection, preservation and other site related responsibilities.

Many serious crimes are based on singular incidents that are reported multiple times so that it appears to be multiple incidents.

The impacts of crimes on Guam are discussed in Volume 2 of the FEIS. As noted in the SIAS: "A critical distinction when analyzing crime impacts is between the total numbers of crimes ("volume of crime") and the actual crime rate (numbers divided by population). Population increases always bring with them increases in the volume of crime, but the crime rate would increase only if new populations are disproportionately likely to commit crimes."

The DoD acknowledges that any increase in population, such as the one that these proposed actions would cause, may be accompanied by a proportionate increase in crime and social disorder. The DoD also acknowledges that widely publicized instances of military crime in Okinawa cause Guam residents to be concerned about possible repercussions on the island brought about by the increase in military population on Guam. The increase in population during the construction phase of the build up is recognized as a time for concern for increases in incidents of crime. Moreover, it is also acknowledged that the age group of many military personnel is often characterized as prone to conflicts and misbehavior. DoD educates its service men and woman on good behavior and will act promptly and rigorously to curtail any misconduct and enforce laws to protect the citizens of Guam and our military personnel.

J-014-040

Thank you for your comment. Additional information on culturally important plants and their locations on Guam is included in Chapter 12, in Volume 9, and Appendix G. DoD will make every effort to allow access to culturally important plants when it is safe for the public to do so.

The DEIS continued to err throughout the document in equating cultural sites with historic sites, as if they were interchangeable. That may be adequate for stateside consideration in homogenous areas (off Native American properties), but for Guam there is still a living culture that continues an affinity with sites beyond those listed on the NRHP. Such sites include the Fena Massacre Site and all other sites where WWII atrocities occurred. If access to these sites is not granted in some way, then a finding of significant adverse impact must be made in the FEIS.

AREAS OF CONCERN:

J-014-041

1. Erosion Control.

This is one of the most important issues associated with the proposals, as it is one of the primary causes for coral reef damage and destruction.

- a. "While silty soils are prone to erosion, the lack of slope lessens erosion hazards." (DEIS vol. 2, chapter 3, 3.1.4.1) Lessens does not equate to eliminates. In the tropics extremely heavy rainfalls can be expected throughout the year, and the rain and winds associated with tropical storms and typhoons can result in devastating effects on cleared soils. Erosion can be controlled through 1) judicious clearing, grading and grubbing, to include only those lands which will be built upon within a reasonably short period of time. 2) covering cleared and graded property with mulch immediately. 3) schedule development activities to reduce the amount of cleared soil required at any time, to avoid the rainy season. 4). Respond with mitigation (covering) of bared soils prior to any anticipated tropical storm or typhoon.
- b. Adherence to Guam's Section 319 Non-Point Source Pollution Regulations is essential, and should be addressed in the FEIS.
- c. Adherence to Guam EPA's Soil Erosion and Sediment Control Regulations is essential, and should be addressed in the FEIS, particularly detailing conformance to Section 10105, parts. B9, 10 and 11 in particular.
- d. Adherence to U.S. EPA's December 2009 Storm Water Control Guidance is essential, and should be addressed in the FEIS.

J-014-042

2. Waste Water/Storm Water.

- a. In a restricted, small island environment every impact on the environment is magnified, as are the mitigations. While it has been deemed unnecessary to meet mitigation needs for this particular set of projects, it still may be worthwhile to develop a cost/benefit analysis of upgrading the Agana and Northern District sewer treatment plants to tertiary level.
- b. Volume 6, Chapter 10, 10.2.4.1 states that "no new uses in submerged lands are proposed." While that may be true, there will be an increase in the effluent produced by an increased population and discharged into near coastal

29

Guam and CNMI Military Relocation DEIS/OEIS

J-014-041

Thank you for your comment.

1.a. Volume 7 of the EIS contains a description of BMPs that will be used to prevent the erosion this comment discusses from occurring.

1.b, c, d. All of Guam's applicable permits will be obtained and all applicable requirements will be adhered to.

J-014-042

Thank you for your comment.

DoD is proposing to upgrade to the Northern District Waste Water Treatment Plant (NDWWTP) from Primary to Secondary Treatment. This action alone will assist GWA in meeting its coastal water quality standards, providing benefit to the sea life and people of Guam. Tertiary treatment is not needed in order to meet current water quality standards.

The impacts of increased effluent on marine resources are appropriately described under the Marine Resources Chapter 13 in Volume 6. In general, the *enterococcus* and ammonia levels, after initial treatment as identified in Table 13.2-4, are lower than current ambient conditions (i.e. no action alternative) found in coast waters associated with the NDWWTP. And as identified above, with DoDs assistance with future upgrades to secondary treatment, water quality values will be lower than GWQS.

waters. Volume 6 tries to address this issue, but states (in chapter 13, page 16): "Enterococcus and ammonia in the surfacing plume will exceed the GWQS. These anticipated constituent concentrations are based on the modeling results and do not take into account the degradation of constituents, die-off of organisms, or uptake of the pollutants by existing aquatic life.

If enterococcus is taken up by existing aquatic life, is there a cumulative build up in that organism? Is it taken up further on the food chain? At the Agana outfall, spinner dolphins have been observed in the past, swimming in the area where the effluent plume was rising. What was the impact on those mammals?

J-014-043

c. There is little indication (to the positive) that the road improvements offered will address storm water retention and management. DoD seems to be arguing that by adding an impervious surface as shoulder does not constitute road widening.

All road improvements should address storm water management.

d. Section 438 of the Energy Independence and Security Act of 2007 reads as follows: Section 438. Storm water runoff requirements for federal development projects. The sponsor of any development or redevelopment project involving a federal facility with a footprint that exceeds 5,000 square feet shall use site planning, design, construction, and maintenance strategies for the property to maintain or restore, to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the temperature, rate, volume, and duration of flow.

The guidance goes on to state that management must include policies and practices to manage the 95% rainfall and to (attempt to) achieve a zero loss/zero gain stormwater flow into surface waters, as well as to return to the extent possible to the evapotranspiration and recharge rates previous to the disturbance.

It is important that adherence to the 2009 guidance be addressed and ensured in the FEIS.

J-014-044

3. Solid Waste.

a. Figure 2.4-1 on page 90, Vol.6, chapter 2 indicates a total amount of solid waste that would be generated by both DoD and the non-DoD communities, and which will be disposed of at the Layon facility. The use of Layon solid waste facility by DoD will result in significant extra traffic from large trucks on a daily basis.

At the estimated amount of solid waste that will be generated by DoD over a 10 year period, 506,954 tons, or 1,013,908 cubic yards (this is using a figure of 1,000 pounds per cubic yard as calculated by Heil Inc. – the largest manufacturer of garbage trucks, rather than the 1,200 pounds per cubic yard

30

Guam and CNMI Military Relocation DEIS/OEIS

J-014-043

Thank you for your comment. To address potential impacts of all project types, roadway-specific BMPs would be included in the planning, design, and construction for all proposed projects, regardless of project types. These BMPs would adhere to both (1) conditions set forth by GEPA for obtaining grading and stockpiling permits, and (2) the 2009 USEPA guidance entitled: "Technical Guidance on Implementing Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act." This guidance was not available at the time of the DEIS release, however, the text in Volume 6 Chapter 6 (Water Resources) and Volume 7 Chapter 2 and other locations in the FEIS that discuss BMPs and mitigation efforts was updated to include adherence to the 2009 USEPA guidance that implements Section 438 of the Energy Independence and Security Act of 2007.

J-014-044

Thank you for your comment.

The estimated additional truck traffic to Layon landfill will not cause traffic congestion or any sudden degradation to the pavement. When considering impacts to pavement conditions or structural capacity, it is measured in equivalent single load axles (ESALs). Using your calculation of 12 truck loads per day, five days a week for 10 years results in roughly 100,000 ESALs. In general, pavements are designed for several million ESALs. Route 4 improvements to accommodate the trucks going to the new landfill is part of Guam DPW's transportation improvement program.

The statement that Marines would begin moving in 2010 is accurate; please refer to page ES-7 of the Executive Summary that provides an overview of the military buildup and schedule. The Layon Landfill has been designed to accommodate the potential military buildup and use of

used in the DEIS), a minimum of 22 trucks, each carrying 18 cubic yards of trash, would be required per day, five days per week just for DoD solid waste. Using Heil's largest truck, the Heil 5000 which carries up to 32 cubic yards (to minimize the number of loads per day), at least 12 loads per day would be required. For even the smaller truck that equates to more than 18,000 pounds per load.

According to the figures given on table 2.4-1, DoD's solid waste output will exceed non-DoD output by more than 30%.

There is no mention of the impacts on roadways from this operation. Route 4, which would carry the loads for some distance, is not in the road hardening plans. Additionally, the increased traffic along route 4, which is close to sea level and near the shore, would result in increased oil, rubber and other pollutants on the roadways, which would be transported onto near shore reefs.

The impacts of the solid waste trucks on Guam's roadways (in particular Route 4) must be addressed in the FEIS in detail. This must include methods for managing non-point source pollutions that would result from the increased heavy traffic.

b. The DEIS states that the Navy landfill at Apra Harbor could have its life extended by 27 years if they installed a liner, "however, a new liner system would require approximately 3 years for design, permitting, and construction (assuming that the Navy would hire contractors to do this work) and therefore would not be ready by 2010 when the Marine Corps would begin to relocate." (vol. 6, chap. 2, page 96). The Marines would not actually begin arrival until 2014.

FEIS must explain why this option cannot be selected. By selecting it, the life of the Layon landfill will be substantially increased. Where possible, DoD should resolve its own waste problems on its own lands.

c. "Continued use of the Navy Sanitary Landfill under the Preferred Alternative would further contribute to the potential contamination of the underlying groundwater. However, the landfill is located over aquifers not used for supplying drinking water, thus any leachate that might percolate into the aquifer would not affect regional groundwater drinking quality or quantities" This statement, (found in vol. 6, chapter 6, page 19) is based on two fallacies. First, since it had been stated earlier that a liner could be installed at the Navy landfill, the problem of contamination would be resolved. Second; the lack of concern for the aquifer in that area is short-sighted at best. The water in that aquifer may be brackish as stated (one long-term solution for potable water listed in the DEIS is desalinization of brackish water), and may not be needed at present time, but that is not an excuse to continue to pollute the waters.

31

the Layon Landfill will help to achieve an economy of scale by sharing solid waste disposal costs with GovGuam. Current projections indicate the Layon Landfill will have capacity for 33 years. The Navy is preparing a Recycling and Solid Waste Diversion Study for DoD Bases, Guam that has established a diversion goal of 50 percent, not including construction and demolition debris. The Study is considering the following alternatives: 1) DoD would construct two refuse transfer facilities, one in northern Guam and one in Southern Guam; 2) DoD would implement a source separation recycling program at all facilities; 3) DoD would construct recycling center(s); and 4) DoD would construct a materials resource recovery facility.

As described in Volume 6, Chapter 2, Section 2.4.1.1 and presented in Table 2.4.3, adding a liner to the Navy Sanitary Landfill was an alternative considered but eliminated from analysis in the EIS. The Final EIS includes a discussion of potential impacts to the underlying groundwater. Studies are currently under way to assess whether or not the underlying groundwater has been affected by leachate. Based on the conclusions of these studies, further action may be required.

d. While there will be considerable demolition of existing structures for this project, there is not mention of the possibility of asbestos. There is an asbestos "landfill" at Andersen, but with new methods of disposal this site should no longer be used.

If asbestos is found during these projects, then it should be removed from Guam and disposed of through vitrification in an electrical glass melting furnace (or it may be preferable to place an oven on Guam to dispose of all of the asbestos – taking it out of the "permanent storage" facilities.

e. "NAVFAC Marianas has initiated an effort to "partner" with Andersen AFB in its recycling efforts. By collecting and transferring recyclable waste from Navy facilities to the Andersen AFB recycling center, the Navy hopes to reduce the flow of waste into the Navy landfill and increase the profitability of the Air Force's investment into its recycling equipment by adding volume of recyclable waste. However, the current volume of recyclable waste generated by the Navy is likely well below the amount needed to construct and operate a dedicated Navy recycling center that is capable of supporting itself in terms of cost." (Vol. 6, Chap. 3, page 25).

Because recycling is an "economy of scale" effort, an opportunity would exist to allow for collection points for recyclable materials from the general public as well, thus helping to reduce the solid waste load at Layon.

"GovGuam has been consulting with the military for several years regarding the potential consolidation of their individual solid waste programs or components of these programs (e.g., recycling facilities)." (vol. 6, chap. 3, page 28). The FEIS should address this approach.

J-014-046

4. Educational Materials.

a. Because the island, its people and its resources will be overwhelmed by an immediate 40% population increase, and an immediate development of between 1.5-2.5% of the land total, involving nearly 80,000 people who have no firsthand knowledge of the fragility of the island and its community, it is imperative that an immediate and thorough educational campaign be undertaken for the following:

- 1) Construction companies, supervisors, and lead personnel.
- 2) H2b workers
- 3) Military personnel
- 4)Dependents of military personnel.

Written brochures and DVD's should be aimed at their particular audience and must include information about the history of Guam and its people, information on the native flora and fauna, an introduction to the aquatic resources of Guam, including corals, gastropods, fishes and other marine life, and the laws that apply to Guam. The objective of the educational materials should be to give the

32

J-014-045

Thank you for your comment. The new Layon Landfill is designed to accommodate municipal solid waste from all current and future DoD sources as well as civilian and commercial sources. Based on conservative waste generation rates, the new landfill will reach capacity in approximately 33 years. The DoD will be implementing diversion and recycling programs that will significantly reduce solid waste generation and will help to extend the life of the landfill. Details of these programs have been added to Volume 6, Chapter 2.

The Navy has prepared a Recycling and Solid Waste Diversion Study for DoD Bases, Guam that has established a diversion goal of 50 percent, not including construction and demolition debris. The Study considers the following alternatives: 1) DoD would construct two refuse transfer facilities, one in northern Guam and one in Southern Guam; 2) DoD would implement a source separation recycling program at all facilities; 3) DoD would construct recycling center(s); and 4) DoD would construct a materials resource recovery facility.

Additionally, the Navy has prepared a Construction and Demolition (C&D) Debris Reuse and Diversion Study for DOD Bases, Guam that addresses waste characterization, processing, recycling and disposal of construction debris. Information from this study has been used to update the FEIS.

The C&D study considers the following alternatives: 1) Contractors would continue to process all C&D debris, and DoD would construct a composting facility to process green waste and 2) DoD would construct a C&D debris central processing facility and a composting facility to process green waste.

Through project specific contractual requirements, DoD contractors would be required to process and divert 50% of C&D debris that is

audience an appreciation for Guam's uniqueness, an understanding of the dangers man faces in the sea and the dangers the sea faces from man, an appreciation for the fragility of Guam's resources and, a knowledge of how to avoid negative impacts.

In order to create the best possible products, these educational materials should be a cooperative effort between DoD and the Government of Guam. Funding should be provided by DoD as the build-up is a DoD project, with expertise from the various GovGuam agencies providing the information and format.

J-014-047

b. Volume 2, chap. 11, page 58 suggests that, in order to take measures to protect Haputo from being overwhelmed recreationally, a short video and access pass, similar to the process at Hanauma Bay in Hawaii should be instituted.

While that is a good idea it is not enough. Hanauma Bay has shown that there also needs to be a limitation on the people allowed to access the property, and therefore, it is important that limitations on the daily/weekly/monthly visitors to Haputo Ecological Reserve (particularly the beach area) be instituted, using a strict reservation system. Guam Department of Aquatic and Wildlife Resources should develop the numbers for this.

c. Volume 5, Chapter 9, 9.2.2.1 states that Haputo and Guam National Wildlife Refuge would be off-limits to non-DoD affiliated persons. This is much stricter language than appears in previous volumes. These areas are part of Guam's heritage and some form of access should be accommodated.

DoD should work with GovGuam to develop an access plan that would satisfy security needs as well as access rights.

J-014-048

5. Roads and Transportation issues.

a. The impacts of traffic on Guam public roads, while unavoidable with increased personnel, could be mitigated by staggering working hour starts, particularly during construction phase. I.E., one third of day workers start at 6am, one third at 7am and one third at 8 am. FEIS should consider this as a mitigation.

b. Vol. 6, chap 4. It may help to reduce time or eliminate some v/c F times to designate inside lane for mass transit or vehicles with 3 or more passengers only, which may also increase mass transit ridership. In some areas the creation of a convertible lane may also be possible. While these options would normally be the responsibility of GovGuam for designation, the severity of the impacts created by DoD actions would suggest that a DoD/GovGuam cooperative effort be made to find creative solutions to anticipated congestion.

J-014-049

Noise.

a. Marine aircraft to be added include 12 each MV-22 osprey and 4 each CH 53E Super Stallion helicopters, in addition to occasional visits by carrier based F-18

33

generated on each project. Another alternative would be for the DoD to construct a central processing facility that would be used to recover and reuse or recycle scrap metal, concrete (without lead-based paint), asphalt concrete, and untreated wood. Asbestos waste will continue to be disposed at the Navy Sanitary Landfill at Apra Harbor. Contractors would be required to haul C&D to this facility. Based on the C&D debris composition assumed in the study, the Navy will be able to achieve a C&D debris waste diversion goal of greater than 50% by the end of fiscal year 2015. A site for the central processing facility is currently being evaluated but will most likely be located in northern Guam. Disposal of C&D debris that is not divertible or recyclable will be disposed at the Navy Hardfill at Apra Harbor. The study also evaluates the construction of a composting facility to handle green waste generated by land clearing activities required for new development.

J-014-046

Thank you for your comment. Your mitigation recommendation has been taken under consideration. Expanded mitigation discussion is available in Volume 7 of the FEIS.

J-014-047

Thank you for your comment. One of the mitigation measures proposed is for a recreational resource carrying capacity study and resource management plan to be conducted. Data gathered for the carrying capacity study would be used to form a baseline (i.e., capacity for a recreational resource) and appropriate mitigation measures would be determined in the resource management plan.

Another mitigation measure proposed in the EIS is for DoD to collaborate with the Guam Department of Aquatic and Wildlife Resources (GDAWR) to establish outreach programs for the existing five marine reserves.

The EIS has been revised to reflect that the Ritidian Unit, which is owned

Super Hornets, all of which are substantially more noisy than the Seahawk helicopters presently assigned to 25th squadron at Andersen. Additionally, while Navy helicopters rarely fly multiple craft formations, the Marines do routinely. It doesn't appear that full analysis of anticipated noise impacts on off-base residential lands has been completed.

- b. Vol. 2, chap. 6, page 23, 6.2.1.2: "Threshold levels of significant impact for supplemental noise metrics have not been established and there is no accepted methodology for aggregating these values into a cumulative impact description." However, an analysis is still needed to be done.
- c. While this study states that "...noise impacts due to construction noise are expected to exceed limits to off-base receptors..." but then concludes that no mitigation is required since noise levels are temporary. Within reasonable limits, the noise nuisance factor can be reduced by ensuring that all construction take place within reasonable hours, particularly in those areas where construction is adjacent to non-DoD properties.

J-014-050

7. Potable Water Resources.

- a. The potential impacts of climate change, particularly sea level rise, must be addressed in calculating the carrying capacity of the sole source aquifer. There is a range of widely accepted scenarios for sea level over the next 20-50 years, and those should be addressed.
- b. The DEIS uses "current usage of sustainable resources" as a static number over which they add anticipated use by DoD. The normal civilian population growth and water demands have not been included, nor estimations of projected increases in tourism usage.
- c. Vol. 2, chap.4, page 28: "An analysis of chloride concentrations in Andersen AFB water supply wells at Andersen South indicates that chloride is increasing in approximately half of the wells and concentrations in several wells exceed the secondary MCL". FEIS needs to explain how this problem relate to/impact on or define problems in other wells drawing from the aquifer and define the state of the basal lens water in the aquifer?
- d. Vol. 6, chap. 2, page 5: The Navy transient personnel are all shipboard, and the ships would not require support services during the intereim period (i.e., would not initially contribute to demands on public utilities)." They would also place a demand on solid waste disposal and on potable water supplies. This needs to be addressed in the FEIS.
- e. Why does the anticipated potable water needs rise in 2019 over 2014 and 2015 levels when DoD related population increases actually fall over that time period? (Vol. 6, chap. 2, table 2.2-2).

34

by the Fish and Wildlife Services, will continue to be open to the general public.

J-014-048

Thank you for your comment. As indicated in Volume 6, Chapter 4, page 4-87, a proposed mitigation for impacts to traffic from the military build-up is the development and implementation of a Traffic Management Plan, which includes among other measures, staggered work hours, flextime, and compressed work weeks. The Traffic Management Plan would be a cooperative effort to be developed by the FHWA/DPW and the DoD, particularly during construction of the military facilities.

J-014-049

Thank you for your comment. This comment covers two pages, please see comment J-014-050 for the remainder of the comment. The response for both pages is provided here.

- a) All of the aircraft listed in this comment were included in the noise analyses for Andersen AFB. Also included were the occasional other aircraft that would be using Andersen AFB associated with the proposed action. The analyses also include the types of formations the USMC uses. See Volume 2, Chapter 6 for the noise analyses and Chapter 8 for the land uses within the noise contours.
- b) Although there are no specified threshold levels and no methodology for aggregating supplemental noise metrics, analyses using these supplemental metrics are often more applicable than day-night noise levels or other more traditional metrics. For example, even using logarithmic addition, an SEL of 80 dBA does not aggregately combine with a day-night level (DNL) of 80 dBA. Often referring to a single overflight, an SEL metric may be more applicable. For cumulative analyses, a more qualitative approach is necessary. Please refer to Volume 7, Chapter 4.

f. Vol 6.,chap 2, 2.2.3.2) "there is sufficient water supply to meet the anticipated non-DoD water demand, provided that the proposed system expansion is operation in time to meet the increased demand." Given the financial state of affairs of the Government of Guam, and the fact that much of the civilian demand is directly related to the DoD build up, it is important that DoD contribute up-front costs for GWA to undertake expansion of their system.

g. Vol. 6, chap. 3, page 52, 3.2.3.1: "GovGuam may charge development impact fees that could enhance financing options that could go toward acceleration of projects to improve the GWA water system". This is not a feasible option, as GovGuam attempted to impose development impact fees in the past, with little legal success. Federal courts in North Carolina recently ruled against developer impact fees. If DoD (as the developer) is willing to pay up front impact fees, GovGuam would probably accept.

h. Vol. 6, chap. 2, page 41: wouldn't desalinization wastes also include any chemicals leached into the soil from higher grounds, such as fertilizers, pesticides, herbicides, etc? If so, direct ocean dumping should not be considered a viable option for removal.

8. Other Land Issues.

J-014-051

a. Ecological Reserve Area. If these are to be created or expanded as a form of mitigation, DOD should include a significant management partnership with GovGuam (DAWR).

J-014-052

b. Recreation. Vol. 5, chap. 9, page 3 states, "The sole recreational resource at Navy Barrigada features one of two golf courses available to installation personnel and guests on Guam, the Admiral Nimitz Golf Course". This statement is false in two ways. First; installation personnel have the same access to all golf courses on Guam that other residents have. Second, the public does play at Admiral Nimitz Golf Course, however green fees are higher at these courses.

J-014-053

c. Wildlife. Vol. 5, chap 10, 10.2.3.1 (as an example) states: "However, long-term, permanent impacts to populations of such species would not result because the species known to be present are abundant in surrounding areas, and would rapidly repopulate suitable portions of the affected area." This statement has been repeated throughout the DEIS and, while it might find truth in selected areas, the statement ignores the impact of diminished total populations. In natural settings wildlife tends to occupy the maximum land space it can (or attain a maximum population density for the land available). Any wildlife displaced from an area to adjacent lands would expand that species population beyond the sustainability levels of the habitat. Natural levels would result over time, but the overall long term impact is that total species populations would decline because total habitat area had declined.

35

c) Mitigation measures such as those described would be implemented to reduce the noise in adjacent non-DoD properties. Mitigation measures such as those described would be implemented to reduce the noise in adjacent non-DoD properties.

J-014-050

Thank you for your comment.

- a. Impacts of climate change on the NGLA will be assessed in the USGS study of the NGLA which is planned for completion in 3 years. Preliminary results from the study will be incorporated in the plans and specification for the water system. There is also an assessment of impacts from climate change to the aquifer in Volume 7.
- b. The water demand estimates in the Final EIS include the baseline population, baseline growth, civilian workers for the new base, and construction workers. Water demand for tourists is included in the current GWA water production value that is used as the current demand, but it is assumed that the number of tourists does not increase over baseline levels.
- c. McDonald and Jensen (2003) suggest that there has been a distinct chloride increase over time, which they interpreted as being indicative of overpumping. Their conclusion was drawn from an analysis of wells through the NGLA, not an analysis of the Andersen AFB wells. The sentence in Vol 2 will be corrected.
- d. The Final EIS addresses all necessary dockside utility requirements for the visiting ships.
- e. Table 2.2-2 presents the estimated water demand for DoD only. Water demand for populations related to the USMC relocation were

...they are fenced off from public entry, the Guam National Wildlife Refuge is not considered an accessible "publicly owned" wildlife refuge; therefore, it is not determined to be subject to the protective provisions of Section 4(f)." (vol. 6, chap. 21, 21.3.2). This statement ignores the purpose of the refuge and overlay areas. It is intended not just to protect habitat, but the wildlife that moves in and out of the refuge and that depend on the refuge. Because wildlife move freely from DoD to publicly owned land, the public also has a stake in the habitat that sustains the wildlife's ability to survive. To dismiss the public's rights over their own living resources is, at best, arrogant. In addition, the DEIS has not shown that it is necessary to destroy the refuge as their actions would surely do, they have only demonstrated that it would be convenient for them to do so. FEIS must demonstrate that there is no practicable alternative to their intrusion on the wildlife refuge and the agreement they made to protect it.

J-014-054

9. Hazardous Waste.

- a. Beginning with table 17.2-1 (vol. 2, chap. 17), and extending to all the following tables in this section, it is inadequate to state "no mitigation measures are identified". At the very least there must be a statement that BMPs and site specific plans will be adopted or updated and that mitigation training for response to those plans will be conducted. That is alluded to in text, but the language of these tables brings that into question.
- b. It is impossible to assess the potential impacts of hazardous materials, waste, spillage, etc., because of the generality of the information. For example; it was stated in passing that pesticides and herbicides were included. What are these exact products and in what quantity would they be used? With that information suggestions could be made for alternative chemicals, or for a non-chemical replacement. FEIS should address hazardous material usage in greater detail.

J-014-055

10. Air Issues.

Vol. 5, chap. 5, 5.2.1.2 states: "The potential effects of CO² and other greenhouse gas emissions are by nature global and are based on cumulative impacts. Individual sources are not large enough to have an appreciable effect on climate change." This may be the most ludicrous statement in the DEIS. Cumulative means that it is the result of many actions, and so all those many actions must be addressed for cumulative impact (on a global scale in this case). In addition, USEPA recently announced new regulatory authority over CO² greenhouse gases because of their harm to humans. President Obama made commitments on greenhouses gases at the Copenhagen Climate Change Conference, to include CO². The release of greenhouse gases as a (indirect) result of these proposed actions must be addressed in the FEIS.

J-014-056

11. Social Impacts.

There are a range of social impacts discussed in the DEIS which will be covered here.

 a. Housing: While it is positive that empty rental units may be occupied (during the construction period), it is also possible that the impact on the

36

presented in Table 2.2-4 of the DEIS for the off-base demands.

J-014-051

Thank you for your comment. DoD will continue to work with Government of Guam agencies on these important natural resource protection issues.

J-014-052

Thank you for your comment. The statement on Page 3 was referring to recreational resource existing specifically at the Navy Barrigada property. Your comment regarding green fees is noted.

J-014-053

Thank you for your comment. It is recognized that total population number could be reduced, however these are not significant impacts if a large population still remains.

J-014-054

Thank you for your comment. The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including fuels, lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, PCBs, nuclear materials, and other hazardous substances. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and substituting them for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and regulations, DoD

ability of current residents to continue to rent may be negative. The military provides their personnel with substantial housing allowances, which tend to raise rental prices. Should the non – H2b workers also receive substantial rental allowances the problem will just be exacerbated.

The DEIS estimates that there are currently some 2,800 vacant rental and for sale units available, and almost 9,500 new units will be needed by 2014, which then drops to only 3,000 units just three years later.

There will be an excess of renters during the construction phase, followed by a glut of empty rental units. The DEIS suggests that all military personnel and their dependents will be housed on-base. The military could reduce their built footprint in the cantonment area and relieve the excess housing problem they caused through their actions off-base, by long-term leasing of empty units off-base to house their personnel.

b. Personnel needs: It is difficult to accept the numbers projected for police, fire, teachers, public health, permitting and enforcement. They were arrived at using straight line projections, which are always questionable. With the minimum drinking age on Guam to be 18 (the lowest in the nation), there will certainly have to be an increase in drinking related problems with the Marines from 18-20 years of age (DUI, fights, accidents), the report suggests that GPD needs will increase by 117 officers up to 2014, and then need to be reduced by 62 officers thereafter (table 16.2-46, volume 2). The figure (like the figures for all projected personnel needs), fails to address the fact that most of these positions are currently under-filled due to fiscal restraints.

Similar fallacies occur throughout this section. The DEIS projects that no new students will enroll in GPSS schools because they will have DoD schools available to them. DoD schools will require new teaching staff and that will probably come from the pool of GPSS teachers, as was the case when the DoD schools first opened.

The DEIS review of the Bureau of Family Health and Nursing Services points out the overall current shortfall in personnel as stated above. "...the inability for BFHNS to meet these needs. Because of staffing and supply shortfalls,..." (volume 2, page 16-23).

The fire department needs are interesting in that the military has firefighting equipment and staff, including trained use in helicopter water drops for fire fighting, but DoD policies are to deny the use of such assistance off DoD properties, even if DoD was responsible for the fire. A change in this policy alone would go a long way in meeting the additional fire fighting needs due to these proposals.

has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage. spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are fully described in the EIS document (Volume 7). Note that BMPs and SOPs are not considered "mitigation measures" because these actions are being done as part of existing laws and regulations and not as part of new "mitigation". However, if a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that hazards are mitigated quickly and effectively. In many cases, part of remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. In fact, many such clean-up efforts are underway. As part of the clean-up process, the DoD provides various opportunities for the general public, stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs) where interested party questions and concerns may be communicated. These comprehensive actions (e.g., BMPs, SOPs, etc.) will protect public health, welfare, and the environment from adverse impacts associated with the use of hazardous substances. Regarding waste volume and waste type details, this data was obtained directly from DRMO databases in Okinawa and Guam. The waste Tables in

In summary, all of the figures given for housing and personnel needs are questionable, and fail to answer the bigger question; what do you do with the excess housing and staffing that would be realized after 2014. The four to five years that the bulk of the personnel would be needed (2010 - 2014) is too long for limited term hire, or even for contractual hire.

DoD should recalculate the personnel needs using other than straight line projections, and should work closely with the Government of Guam in helping to find and recruit the personnel needed to meet the impacts of their developments. DoD suggests throughout the document that GovGuam should impose "development impact fees" in order to pay for DoD impacts. The assistance suggested here, and all other up-front assistance suggested could be considered a development impact fee, which DoD is on record as supporting.

J-014-057

c. Population: The proposed activities will result in a change in the ethnic make-up of the population, and could have consequences on voting patterns, which have over the years allowed the native population (Chamorros) to retain a political majority on their own island. While not all military/dependents/non DoD workers register to vote on Guam, it is possible that a significant number may because that would absolve them from having to pay both Federal and State income taxes while they are on Guam. The result may be a shift in ethnic make-up of the fifteen members of the Guam Legislature, reducing the Chamorro majority, and may have social consequences beyond the political process.

Given the figures presented in Volume 2, table 16.2-34, the Chamorro's currently make up 42% of the population. During the construction period that percentage will fall to 29% and only rise to 36% after 2014. There may be no mitigation possible for this issue, but it will require a greater sensitivity on the part of DoD.

J-014-058

d. There was little to no discussion on the impacts to marine resources due to the induced population growth.

J-014-059

In conclusion, we have received many comments on the intimidating nature of the DEIS document, mainly attributed to its extraordinary length and the abundance of technical jargon, redundant material, and complex, sometimes confusing, explanations. According to 40 CFR §1502.8, environmental impact statements must be written in "plain language." It is clear that this document does not meet the requirements of this regulatory requirement.

We believe that the FEIS is not the appropriate document to include large amounts of new (or corrected) information, as the 30-day FEIS review period does not require comments by agencies, organizations, or private citizens (or if they do comment, that their comments will be incorporated into the ROD). Instead, we strongly recommend the

38

Volume 2, Chapter 17 provide as much specific information regarding the specific wastes types as was discernable within the DRMO databases. However, potential impacts associated with hazardous substances have been identified in Volume 2, Chapter 17.

J-014-055

Thank you for your comment. The change in climate conditions caused by the burning of fossil fuels is a global effect, and requires that the greenhouse gas emissions analysis be assessed on a global or regional scale, not at the local scale of a city or an island. The proposed alternatives mostly involve the relocation of the military operations already occurring in the West Pacific region, therefore fossil fuel burning activities in the region are unlikely to change significantly. Overall global greenhouse gas emissions are likely to remain near the current levels on a regional or global scale, resulting in an insignificant impact to current global climate change trends. A more detailed discussion of climate change, inclusive of recent EPA regulations, is included in the FEIS. Although it is still an appropriate assessment statement, the sentence "Individual sources are not large enough to have an appreciable effect on climate change" will be removed. Volume 7 of the FEIS contains the discussion of climate change.

J-014-056

Thank you for your comment. Please see Section Section 4.3.2 of the Socioeconomic Impact Assessment Study for further information on expected impacts to civilian housing.

The FEIS anticipates that military housing will be built within the main cantonment area. It is anticipated that the majority of Marine families would rent units in the military housing and generally not compete with Guam residents for available housing units. It is likely that housing prices and rent will increase in the short term. After the construction

release of a supplemental document (with public comment period) prior to the release of the FEIS. Such a recommendation is supported by CFR 1502.9(c), which states, "If an agency has made a substantial change in a proposed action that is relevant to environmental concerns, or if there are significant new circumstances or information relevant to environmental concerns and bearing on the proposed action or its impacts, a supplemental EIS must be prepared for an old EIS so that the agency has the best possible information to make any necessary substantive changes in its decisions regarding the proposal." It is extremely important that this be considered, given the large-scale, long-term impacts the buildup will have on the people of Guam and the natural resources on which they depend. We are requesting that an extension of sixty (60) days be given for the review of the Final Environmental Impact Statement (FEIS) to fully and accurately review the document.

Detailed comments by volume and chapter are also enclosed with appropriate recommendations. The Bureau is also concerned with issues identified in the enclosure. Thank you for the opportunity to comment. If you have any questions, please feel free to contact me at 472-4201/2/3.

Sincerely,

ALBERTO A. LAMORENA V

Director

Enclosures

period, housing and rental prices could decline because the construction labor force (not including the H2B workers who will live in dormitory type quarters) would leave Guam. Civilian military workers may vie for Guam housing; however, residential housing needed for these long-term workers would likely be about 3,200 units (maximal) by 2020 (SIAS, Table ES-3, page v).

Relating to crimes and the disparity of the drinking age in Guam (18 years) and on the base (21 years). The DoD acknowledges that any increase in population, such as the one that these proposed actions would cause, may be accompanied by an increase in overall crime and social disorder. The DoD also acknowledges that widely publicized instances of military crime in Okinawa cause Guam residents to be concerned about possible repercussions on the island brought about by the increase in military population on Guam. The increase in population during the construction phase of the build up is recognized as a time for concern for increases in incidents of crime. Moreover, it is also acknowledged that the age group of many military personnel is often characterized as prone to conflicts and misbehavior. DoD educates its service men and woman on good behavior and will act promptly and rigorously to curtail any misconduct and enforce laws to protect the citizens of Guam and our military personnel.

The impacts on the Guam public school system are discussed in subsection 4.4.2, page 4-42 of the SIAS. Table 4.4-4 in the SIAS provides the potential increase (maximal) of student population in the Guam Public School System from 2010 to 2020. Providing a brief summary, at the peak population year (2014), a total of 7,937 students could attend the public school system; by 2017, when the operational (long-term) conditions occur, the students generated could be 909. This is based on the direct and indirect (induced) populations resulting from the military relocation. The military dependents would be educated in the DoD school system and should not affect the public school system. Money generated through taxes from the increased population and federal payments to schools

(based on student populations) should provide revenue to fund resources for the public schools.

Please refer to our previous responses relating to DoD funding. Text has been added to the Final EIS to include other possible mitigation measures such as having agreements for mutual aid during emergencies (such as fires).

J-014-057

Thank you for your comment. The changes due to the population increases (the DEIS used maximal population increase numbers) were discussed in the DEIS and the SIAS. Voting impacts were also discussed in the SIAS (Chapter 4).

Chamorros, although considered a minority population in comparison to the U.S. as a whole, represented over 40% of Guam's population in the 2000 U.S. Census. More information on the minority of the Chamorros is provided in the Environmental Justice and the Protection of Children chapters of the DEIS, specifically, chapters 19 in volumes 2, 3, 4, 5, and chapter 20 in volume 6, and under cumulative impacts (chapter 4) of Volume 7.

The DEIS identifies that there is a potential for the incoming population to have the ability to vote (almost all the military population would be U.S. citizens) like other Guam residents. Additional discussion on this issue is on page 4-130 of the SIAS. Given the opportunity to vote in local elections, there is a possibility that new candidates may choose to run for office and persuade the new population to vote for different leadership or causes. On the other hand, off-island U.S. construction workers, military and their dependents may choose not to vote in local elections, especially given their typically short tenure on the island. There was no attempt to state this as a probability, but only a possibility.

To be eligible to vote in Guam's elections, individuals must meet the following requirements:

- Not confined to a mental institution, nor judicially declared insane;
- · Not serving a sentence of imprisonment;
- Citizen of the United States;
- · Legal resident of Guam; and
- Eighteen (18) years of age by Election Day.

In the Guam 2008 elections there were nearly 50,000 registered voters.

J-014-058

Thank you for your comment. More detail and impact analysis is presented in Volumes 2 through 6. Potentially significant impacts to recreational resources (including reefs)were identified under the recreation resource sections in each volume. For the Marine Corps relocation, the impact analysis is presented in Volume 2, Chapter 9. The impact analysis was based on best available information provided through review of written plans, and interviews with commercial recreation business managers and the Fisherman's CO-OP. The type of information collected was largely qualitative; therefore, the impact analysis was also qualitative. Mitigation proposed included preparation and implementation of a Recreational Carrying Capacity Management Plan that addresses recreational user use, demand, preference, conflicts, and conditions. Other mitigation includes education of workers, and military personnel and their dependents on natural resources. Ultimately, it will be the GovGuam's responsibility to manage the offbase coastal resources. The federal government would work with GovGuam to obtain grants to assist in this responsibility.

J-014-059

Thank you for your comment. A supplemental document is not required. Please see Chapter 4 of Volume 1 where any substantive changes between the Draft EIS and Final EIS are addressed.

		Vol	Ch	Pg	Line, Tbl. Fig.	Ōīg	Commenter (last name)	Conment,
J-01	5-001	2	11	11-1		BSP/GCMP	Burdick	The DEIS authors define marine biological resources as "marine-related organisme, their behaviors, and interactions with the environment that may be directly or indirectly affected by the proposed action within the established marine region of influence" which, in turn, is defined arbitrarily as the nearshore waters of Guarn out to the 164 fool isobaths; however, the analysis is restricted to waters offshore of Prinegayan, offshore of the Rt. 15 lands, and all waters of Apra Harbor. There will clearly be impacts to marine resources beyond these areas. Many of these impacts, particularly those associated with the trape population increase (increased harvesting pressure, increased recreational impacts) would probably be considered "secondary." These impacts should be addressed in the appropriate socions.
J-01	5- 002	2	11			BSP/GCMP	Burdick	Off-base impacts to natural resources, particularly those associated with the massive population increase (e.g., increased harvesting pressure, recreational impacts, user conflicts, deforesting, loss of critical habitat, runoff, etc.) are not adequately addressed (and sometimes not at all); no mitigation is offered for impacts to marine resources off-base, which would not occur but for the military buildup. Mitigation must occur, regardless of whether the impacts occur on or off-base, and must be an integral part of the project and must be clearly identified in the funding request/application.

Page 1

J-015-001

Thank you for your comment. More detail and impact analysis is presented in Volumes 2 through 6. Potentially significant impacts to recreational resources (including reefs) were identified under the recreation resource sections in each volume. For the Marine Corps relocation, the impact analysis is presented in Volume 2, Chapter 9. The impact analysis was based on best available information provided through review of written plans, and interviews with commercial recreation business managers and the Fisherman's CO-OP. The type of information collected was largely qualitative; therefore, the impact analysis was also qualitative. Mitigation proposed included preparation and implementation of a Recreational Carrying Capacity Management Plan that addresses recreational user use, demand, preference, conflicts, and conditions. Other mitigation includes education of workers, and military personnel and their dependents on natural resources. Ultimately, it will be the GovGuam's responsibility to manage the off-base coastal resources. The federal government would work with GovGuam to obtain grants to assist in this responsibility.

J-015-002

Thank you for your comment. Off-Base impacts to terrestrial natural resources is not addressed because of the uncertainty of specific impacts which would be dependent on a whole host of other factors, many of which cannot be controlled by the military (e.g. Guam laws and regulations and level of enforcement). These increases in use should be approached from the standpoint of the overall buildup and requirements for infrastructure, etc. Our cumulative effects analysis is based on the information presented in Volume 7, Chapter 4 of the Draft EIS and represents future State, tribal, local or private actions that are reasonably certain to occur in the action area.

		Vol	Ch	Pg	Line, Tbi, Fig	Org	Commenter (last-name)	Comment
J-01	5- 003	2	3	3-30	Para. 4	BSP/GCMP	Tailague	Referring to applicable regulatory standards "The United States (U.S.) Environmental Protection Agency (USEPA) Region 9 gives the Guarn Environmental Protection Agency (GEPA) the authority to enforce portions of federal statutes via a Nemorandum of Agreement." Guarn's procedures for federal consistency respond to the requirements of the Cossist Zone Management Act (CZMA) of 1972 (P.L. 92-583) as amended (P.L. 94-370), the Bureau of Statistics and Planes(BSP), as the lead agency of the Guarn Coustal Management Program (IGCMP), is responsible for conducting federal consistency review for 1) Federal Activities; 2) Activities Requiring a Federal License or Permit; and 3) Federal Assistance to Local Governments. Federal activities state the following: "Any federal agency proposing to conduct or support an activity which wild indeedly affect Guarn's coastal zone is required to do so in a manner consistent with the Cosstal Management Program to the maximum extent practicable, (Subsection 307(c)(1), National CZM Act). A rederal agency activity is any function performed by or on benalf of a Federal agency in the exercise of its statutory responsibilities. (15 Code of Federal Regulations, Section 99.3.). Since this definition encompasses an extremely broad range of Federal actions, early consultation with the BSP is recommended to resolve any questions regarding the application of the Federal consistency review process to a specific type of activity." Consequently, the GCMP Federal Consistency review must be included as an applicable regulatory standard.

Page 2

J-015-003

Thank you for your comment. Federal consistency review is included in Chapter 3 of Volume 8 as an applicable regulatory standard, with Coastal Resource Management Program and Guam Bureau of Statistics and Plans as the permitting authority.

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Contract
J-01	5-004	2	3	3-32	Last para.	BSP/GCMP	Taitague	Referring to the statement: "Soil types that could be disturbed would not be agriculturally productive soits. Soil erosion is primarily a concern for discharge into surface or nearshore waters that are not located near the proposed construction. Construction SOPs would be followed to prevent soil erosion. Therefore, Alternative 1 would not result in significant impacts to geologic resources or result in significant soil erosion or loss of agriculturally productive soil." Andream AFB is located above Quam's main aquifer, which provides potable water to over 80% of the istand population. Because the coastal limestone is extremely permeable in the north, rainfall quickly scales into the ground and recharges three main aquifer areas. Therefore, any construction activity will generate an impact – email or great. Regardless of the types of soils identified for each proposed silo, exposed soils will lead to erosion, and the primary concern is that pollutants will intifizate Guam's fresh water aquifer. Implement best management practices (BMPs) and low impact development (LID) techniques. As stated in the CMM Guam Stormwater Management Manual, "along with development comes an increased amount of impervious surfaces, procluding the natural infitzation of rainwater into the underlying groundwater system. As a result, the groundwater Tears' (which serves as the principle drinking water source) is depleted. Or, in the instances where stormwater is infititated without adequate per-feathent, groundwater quality is degraded." Therefore, Alternative 1 will result in impacts to Guam's natural resources including the aquifer and nearshore waters.

Page 3

J-015-004

Thank you for your comment. DoD and regulatory agencies are equally concerned about preventing contamination of surface waters and groundwater (particularly drinking water aquifers). The EIS describes numerous programs and actions that will be taken to protect surface waters and groundwater from stormwater runoff. Construction of new facilities will use Low Impact Development (LID) principles to the extent practical. LID is a design philosophy that seeks to reduce the impact to the environment from new construction projects through the reduction of impervious surfaces. LIDs principles incorporate the design of facilities with the use of native vegetation, pervious (porous) surfaces to reduce storm water runoff and encourage recharge of groundwater, and water conservation. DoD is currently conducting a LID study that will identify specific types of alternative designs that can be incorporated into the construction of facilities associated with the buildup.DoD is also preparing a stormwater pollution prevention plan (SWPPP) and will apply for permits that regulate stormwater discharges during construction. The permit and plan is focused on reducing the amount of earth and soil that is exposed to stormwater during earth-disturbing activities (such as land clearing and grading), providing stabilization of soils during construction through the use of ground covers, and sediment ponds and traps/screens to reduce pollutants getting into storm runoff and from percolating into the ground. These plans also have specific requirements for containment of potential pollutants at construction sites (such as storage areas for equipment fuel). Lastly, DoD is developing a construction and demolition (C&D) waste management plan in consort with the stormwater construction plan that calls for the use of mulch on exposed soils, mulch that will be generated during the clearing of trees and low growth during land clearing activities. Once construction is complete, a SWPPP will be developed to control stormwater runoff and infiltration from base operations. This is being done on a regional DoD Guam-wide scale, and has the involvement of Guam EPA.

		Vol	Ch	Pg	Eine, Tbl. Fig	Org	Commenter (last name)	Commen
J-01	5- 005	2	3	3-41	Para. 5	BSP/GCMP	Taitague	Referring to the last sentence in paragraph 5 for the construction of the kennel and clinic, "Alternative" I would not result in significant impacts" Any type of construction will pose the the threat of arosinor, thus the project will result in an impact, minimal or significant. While "the soil types that could be disturbed would not be agriculturally productive soils;" the proposed projects to construct a Military Working Dog Kennel and a medical clinic clearly is not an agricultural activity. Any construction activity will generate an impact—arnall or great. Regardless of the types of soils identified for each proposed site, exposed soils in poorly managed sites will lead to erosion, and the primary concern is that pollutarits will infiltrate Guarn's water sources. Therefore, the construction of a military working dog kennel and a medical clinic is an impact to Guarn's natural resources including rearshore waters; and best management practices must be in place to prevent erosion.

Page 4

J-015-005

Thank you for your comment.

		Vol	Ch	Pg	Line, Tb), Fig	Örg	Commenter (last name)	Chrimen
J-01	5-006	. 2	3	3-43	3.2.2.5 Para. 4	BSP/GCMP	Tailague	"Soil types that could be disturbed would not be agriculturally productive soils. Soil erosion is primarily a concern for discharge into surface or nearshore waters that are not located near the proposed construction, except for all Agra Harbor, where BMPs would be used to prevait significant soil erosion." This statement is mileading. Regardless of the project location, it is advised to implement best management practices (BMPs) and low irrapact development (LID) techniques to control runoff from impervious surfaces and prevent pollutants from entering Quant's waters – ground and surface. Some BMPs and LID practices include the use of permeable pavers for driveways and parking lots, installation of rain gardies or biovetentism areas, vegetated swales, buffers and strips, and tree preservation to name a few. As stated in the CNMI Quan Stormwater Management Manual, "along with development cones an increased amount of impervious surfaces, precluding the natural infiltration of rainwater into the underlying groundwater system. As result, the groundwater issue," (which serves as the principle dinking water source) is depleted. Or, in the instances where stormwater is infiltrated without adequate pre-Innatment, groundwater quality is degraded." The construction activities and military trainings proposed in Alternative 1 will clearly generate erosion and runoff. Any construction activity will generate impacts, minimal or significant. BMPs should not only be implemented at Agra Harbor, it must be applied to any and all construction activities organifies of the level of impact. The primary concern is that pollutarits will infiltrate Quam's water sources. Therefore, Alternative 1 will result in impacts — minimal or significant, to Guam's natural resources including the aquifer and nearshore waters.
J-01	5-007	2	2	30	1	BSP/GCMP	Caseres	earlier in the document, it was stated that 29% of the overlay refuge would be developed for alternative no. 1, here it states 25%, dod must reconcile the percentages.
	8	2	2	33	1	BSP/GCMP	Caseres	earlier in the document, it was stated that 53% of the overlay refuge would be developed for alternative no. 2, here it states 41%, dod must reconcile the percentages.
	9	2	2	33	15	BSP/GCMP	Caseres	earlier in the document, it was stated that 53% of the overlay refuge would be developed for alternative no. 3, here it states 41%, dod must reconcile the percentages.
	10	2	2	33	38	BSP/GCMP	Caseres	earlier in the document, it was stated that 29% of the overlay refuge would be developed for alternative no. 8, here it states 24%, dod must reconcile the percentages.

Page 5

Guam and CNMI Military Relocation DEIS/OEIS

J-015-006

Thank you for your comment. Please see the response to J-015-004.

J-015-007

Thank you for your comment. As is stated in Section 2.2.3 in Volume 2 Alternatives 1, 2, 3, and 8 would affect 25%, 41%, 41%, and 24% of the Overlay Refuge in the construction of the Main Cantonment.

Percentages elsewhere in the document has been revised in the FEIS.

		Vol	Ch .	Pg	Line, Tbl.: Fig	Org	Commenter (last name)	Comingent
J-01	5-008	2	2	49	6	BSP/GCMP	Caseres	with regard to the dicontamination training, the chemical to be used should not be hazardous to the environment. If water is involved, the water run off should be treated prior to going back into the ground.
J-01	12	2	2	50	line 5, table 2.3-2	BSP/GCMP	Caseres	the terrain flights at its lowest which is 50 feet above ground level will have detrimental effects to residents as well as aquatics and wildlie in its path especially if this is to be done day and night. dod should coordinate with the division of aquatics and wildlier resources to determine measures to mitigate the adverse effects. with regard to the citizens that may be affected, it is recommended that dod should reduce and maintain the noise levels to an accetable standard to maintain quality of life.
J-01	5- 010	2	2	52	10	BSP/GCMP	Caseres	the proposed landing zones at andersen south and naval magazine may have an affect on flora and faune in the vicinity. dod should do a study as well as coordinate with the division of aquatics and wildfile resources, department of agriculture to determine a mitigation plan if it is found that there are negative effects.
	14	2	2	61	16	BSP/GCMP	Caseres	dod should permanently place good friday in their schedule so that they will not disrupt this annual event with any of their training?
J-01	5-011	2	2	61	25	8SP/GCMP	Caseres	alternative b requires no improvements to the trail. however, dod should install erosion control measures along the trail to prevent further erosion.
J-01	5-012	2	2	61	34	BSP/GCMP	Caseres	instead of may be amenable to adaptative management strategles, it should be more positive that it will be done. dod should do the adaptive management strategles.
1 01	5-013	2	2	62	table 2.3-7	BSP/GCMP	Caseres	please clarify why was the west coast option completely dismissed as an alternative.
2-01	10	2	2	64	table 2.3-8	BSP/GCMP	Caseres	please clarify what is meant by incompatible with future mission.
	19	2	2	74	36	BSP/GCMP	Caseres	stormwater management should be implemented throughout the length of the alignment.
3:81	5- 8,1 5	2	2	82	2	BSP/GCMP	Caseres	The lose uses lift fans to create a cushion of air between the hull and the water surface or hard substrate such as coral. A lot of the substrate if not all would consist of corals. dod should provide for miligation if coral is negatively affected.

Page 6

J-015-008

Thank you for your comment. DoD would adhere to all applicable regulations and best management practices to control the use of hazardous materials and impacts from stormwater.

J-015-009

Thank you for your comment.

J-015-010

Thank you for your comment. DoD would provide all best management practices and mitigation measures, where appropriate, to protect sensitive environmental features.

Also, DoD understands and recognizes the significance of access to cultural sites located on DoD property in Guam. Restricting access to certain areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to Mt. Jumullong Manglo (including the Mt. Lam Lam trail) consistent with safety and operational requirements. Final plans concerning access to Mt. Jumullong Manglo (as accessed by the Mt. Lam Lam trail) have not been developed, DoD looks forward to working with stakeholders including groups that use the area for traditional religious activities to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of this site.

J-015-011

Thank you for your comment. DoD would implement appropriate best management practices to avoid any increase in erosion potential along the subject trail.

J-015-012

		Val -	Ch	Pg	Line Tbl. Fig	Org	Commenter (last name)	Continuity.
J-01	5-016 21	2	6	1-52		BSP/GCMP	Caseres	noise can have deleterious effects on physical and psychological health, affect workplace productivity, and degrade quality of life* according to this chapter, there will be no significant impacts in any of the alternatives, was post travamatic disorder taken into consideration? guam has a high rate of people that joined the military. The increase of air traffs and the noise they will generate implift have an effect on people with its illness. Lifethermore, how can one measure that a certain noise level is insignificant. It may not be to some but may have adverse affects on others, dod should take this aspect of the noise into consideration and provide medical assistance to those affected by the increase in noise.
J-01	5-017 22	2	8	5	41	BSP/GCMP	Caseres	federal submerged lands overlap with the sasa bay and pit bomb holes marine preserves. the federal government does not acknowledge that federal submerged lands can be designated govguam marine preserve and is not bound to comply with land use constraints associated with the preservers. does about destablish rules and regulations comparable to the guam's preserves to ensure that the resources are protected in those boundaries as well.
	23	2	8	7	13	BSP/GCMP	Caseres	please clarify where are these specific geographic areas for the additional training facilities.
	24	2	8	7	48	BSP/GCMP	Caseres	please clarify why isn't guam included in the marianas trench marine national monument.
	25	2	8	9	23	BSP/GCMP	Caseres	If the dos amantes planning area is not adopted by the legislature, how would this affect the dels document and the mission?
1	26	2	8	13	32	BSP/GCMP	Caseres	this sentence appears twice.
	27	2	8	13	37	BSP/GCMP	Caseres	should the source of the north and central guarn land use plan be the bureau of statistics and plans 2009 instead of the bureau of labor and statistics 2009?
	28	2	8	14	1	BSP/GCMP	Caseres	there are farmfand activities on govguern federal and private lands that do not necessarily correspond to land use planning maps and used prime and important farmland designations, this sentence seems to be repeated from the previous page, it sits an error?

Page 7

Thank you for your comment. The discussion of adapative management has been revised in the FEIS.

J-015-013

Thank you for your comment. The DEIS describes the intensive selection process that the DoD went through to select alternatives for the location of the firing range on Guam in Section 2.3.1. Specific reasons why the firing range could not be located on the west coast at Finegayan include the following. There was concern that the amount and location of submerged land that would be encumbered by the SDZs generated by the ranges on the west coast would be an unacceptable impact on recreational activities and traditional fishing areas, which are prevalent on the west coast. Secondly, higher density civilian development in vicinity of ranges increases risk of encroachment.

The phrase, "incompatible with future missions" indicates that the area has been identified for other purposes by the installation.

J-015-014

Thank you for your comment. Proposed actions would be completed in accordance with applicable stormwater management regulations. Both construction stormwater permits and operating permits will be obtained. A Stormwater Pollution Prevention Plan (SWPPP) is being prepared for the construction permit, and a SWPPP will be prepared for the operating permit once facilities are constructed. These SWPPPs include best management practices to control pollutants in runoff, and effluent limits for pollutants found in stormwater. Additionally, a Low Impact Development (LID) study has been prepared that makes recommendations for designing facilities that reduce things like stormwater runoff from impervious (paved) surfaces in an effort to reduce environmental impacts.

		Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Commen
J-01!	5-018 29	2	8	13-33		BSP/GCMP	Caseres	It seems like this section is trying to show the contradictions of the north and central guam land use plan's designations of agricultural lands to other plans such as the used prime lands designations. Throughout these pages, it seems to mention how what is identified as prime agricultural lands. ie. "the north and central land use plan (bureau of statistics and plans 2009) does not designate agricultural land uses in the Important farmlands area." please clarify why it was worded in this manner.
	30	2	8	31	1	BSP/GCMP	Caseres	(bureau of figurestatistics ans plans 2009) should read (bureau of statistics and plans 2009)
J-01	5- 019	2	8	33	10	BSP/GCMP	Caseres	route 4 should be included for improvements because it was mentioned earlier that the new land fill will be used by dod. to get to the landfill, route 4 needs to be accessed, and therefore needs to be improved or reinforced to accommodate the extra load proposed to be hauled over it.
	32	2	8	36	-11	BSP/GCMP	Caseres	Froute 10 runs north and south, connecting routes 4,18, and 8." perhaps route 18 should be 15, because route 18 is in the municipality of santa ritis.
J-01	5-020	2	6	1-52		BSP/GCMP	Caseres	"noise can have deleterious effects on physical and psychological health, affect workplace productivity, and degrade quality of life" according to this chapter, there will be no significant impacts in any of the alternatives, poet traumatic disorder should be taken into consideration because guam has a high rate of people that joined the milliary and may be suffering from this iliness. the increase of air traffic and the noise they will generate might have an effect on people with this illness. furthermore, how can one measure that a certain noise level is insignificant, it may not be to some but may have adverse affects on others.
J-01	5- 021 34	2	8	55	14	BSP/GCMP	Caseres	measuring significant impact to resources based proposed land uses or zone does not seem to be the right way to determine impact. does this mean that if a property is for heavy industrial addivities, that if an activity is proposed that has the potential to containshate the environment, it is considered insignificant because it is in an area where the area is most likely to be contaminated or zoned for activities that have the potential to do that? dod must re-evaluate how significance is determined.

Page 8

J-015-015

Thank you for your comment. Military training including the use of LCAC training is covered under the MIRC EIS. Because of coral depth, it is not anticipated that LCAC operations will impact coral substrate. Further, designated training areas within Apra Harbor have been designed to avoid impacts to coral substrate.

J-015-016

Thank you for your comment. Noise impacts to persons with post traumatic stress disorder were not specifically investigated. While there are concerns regarding people who suffer from this disorder, the noise levels that can trigger a reaction vary among people with the disorder and predictive methods are not available.

J-015-017

Thank you for your comment.

- 22. DoD effectively manages natural resources on federally-controlled land and complies with Sikes Act requirements.
- 23. Figure 8.1-6 shows training areas at Andersen AFB. Figure 8.1-9 shows training areas at NCTS Finegayan. Figure 8.1-11 calls out training areas at Andersen South. Figure 8.1-14 shows training sites at Apra Harbor. Figure 8.1-18 shows training areas at Naval Munitions Site.
- 24. The Marianas Trench designation is unrelated to the EIS and is not within DoD jurisdiction. We cannot provide a substantive response to your comment.
- 25. The Dos Amantes zoning was approved February 28, 2008 by the Guam Land Use Commission. The Final EIS includes additional information on the Dos Amantes zoning with no impact on land use impact analysis conclusions.

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (fast name)	Commed
J-01	5-022 35	2	8	55	34	BSP/GCMP	Caseres	"pockets of obtlian land use within a dod installation is an adverse impact on military land use." seems like this is a self-imposed impact, the dod solution should not be to acquire the private land therefore eliminating a land use impact and making a configuous base, however, if this is done, the landowner should have a choice if to sell or lease the land and should be on an area for area basis.
J-01	5-023	2	8	58	28	BSP/GCMP	Caseres	"no new access rerstrictions would be generated by the use of these exiting federal parcels." should the word be existing rather than "exiting"?
	37	2	8	58	30	BSP/GCMP	Caseres	The existing small arms range and associated sdz would be eliminated. this represents a beneficial impact to submerged land use and public access," would this 'beneficial impact' be at the western coast where the new range is proposed? dod needs to clarify if this also applies to the proposed range in the eastern coast.
	38	2	8	59	3	BSP/GCMP	Caseres	"south finegayan is used for military family housing and under alternative 1, it would continue to be used for family housing. there would be more family housing units developed on land than was historically used for housing." because of the intensity of land use, dod should implement stormwater management if it is not airusely considered such as stormwater treatment and erosion and sediment control for construction sites as well as bioretents.
	39	2	8	61	6	BSP/GCMP	Caseres	*any agricultural leases that remain at the time of construction would be terminated by the air force. this would not be a significant impact because there are other lands available for agriculture.* the air force should offer the leasee other federal lands to lease elsewhere and not leave them out in the cold to find another land to continue their activities.
5	40	2	8	8-1		BSP/GCMP	De Leon	Chap B Land and Submerged Land Use must be corrected to indicate that Aside from the 3 nastical miles approved jurisdiction of GCMP, by Presidential Proclamation 5030 of March 10, 1983, Guam Public Law 15-114 proclaimad, for Guam, Jurisdictional Rights over the waters surrounding the 200-mile Exclusive Economic zone and rediffined jurisdictional control including politation control, and terms of all scentific research, management, exploration and exploitation of all cosan resources and all sources of energy and prevention within and outside the zone that poses a threat within the zone, E.O. 88-29 designated the (Bureau of Planning) BSP as the load agency for EEZ matters for Guam.

Page 9

- 26. The Final EIS does not have redundant sentences.
- 27. The Final EIS identifies Bureau of Statistics and Plans as the author.
- 28. The sentence is deleted in Final EIS. We concur farming is not restricted to prime and important farmlands. The North and Central Guam Land Use Plan identified areas planned for agriculture. This was the basis for the impact analysis on farming. No maps of subsistence farming locations were available for use.

J-015-018

Thank you for your comment. The intent was to present the best available information that happened to be contradictory. The prime farmland soils classification is important from a regulatory point of view when discussing Farmland Protection Policy Act (FPPA). The EIS text acknowledges that the prime farmland soils classification is not necessarily related to actual farming use. The EIS analysis of potential impacts to agricultural land use relies more on the North and Central Guam Land Use Plan. Although the plan is not adopted, it represents the community vision for agricultural land uses. The plan represents the best available information for assessing impacts to land use and prime soils map represents the best available information for assessing impacts to FPPA.

The correction to "Bureau of Statistics and Plans" is made in the Final EIS.

J-015-019

Thank you for your comment. The traffic impacts due to the build-up are minimal on Route 4 and was therefor not included as part of the study. The improvements needed for Route 4 to accommodate the extra loads going to the new landfill are the Guam DPW's responsibility.

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-01	-024	2	8	8-5		BSP/GCMP	De Leon	Marine Protected Areas. The DEIS indicated "The federal government does not acknowledge that the federal submerged lands can bedesignated GovGuern marine preserves and is not bound to comply with land use constraints associated with the preserves." This statement is debatable and should be addressed by the Atty. General.
	42	2	8	8-12		BSP/GCMP	De Leon	Land us into in the DEIS is based on the proposed Land Use Pian 2009 which was not yet officially approved by the Legislature.)The DEIS recognized that the 1960 land use plan for Guarn, however we are unsure IF DOINNavy can reasonably speculate on preliminary proposals that are still under development and that may not presently be capable of meaningful analysis. The DEIS must be changed if in case the proposed new land use plan is disapproved to be legally enforcable.
J-01	5- 025	2	18	18-2	18.1.2.1.	BSP/GCMP	De Leon	AAFB Contistraints on community., APZ at either end of the runway extends into civilian land uses is incompatible with land use within the APZ. This situation must be mitigated, since the structures and other development were already existing previous to the APZ. The Flight parth must be redirected toward unpopulated areas.
J-01	-d26	2	9			BSP/GCMP	De Leon	Recreational sites must be opened for use for both the Military and citizens of Guam, specially for Chamorros.
	45	2	9			BSP/GCMP	De Leon	Need to mitigate the proposed closing of access to cultural sites to local chamorros and citizens
J-01	-027	2	10			BSP/GCMP	De Leon	Impacts of climate change, sea level rise to the sole source aquifer on Guam must be should be discussed/addressed
J-01	-028	2	12			BSP/GCMP	De Leon	Miligation for possible impact of increased Military activity on access and cultural resources should be addressed/discussed most especially the proposed target range.
J-01	- 029	2	18	18-1	18.1.2.1	BSP/GCMP	De Leon	DEIS indicated "Designation of safety zones around airliefds and restriction of incompatible land uses reduces the public's exposure to safety hazards." However, since developments were already implaced prior to the designation of safety zones, ways to mitigate the impacts must be addressed in the DEIS.
	49	2	18	19	18.2.2.7	BSP/GCMP	De Leon	How to resolve traffic impact to community must be discussed, and addressed not only within the section of non-DOD land due to increase in the number of vehicle must also be assessed in the Final EIS.
	50	2	19			BSP/GCMP	De Leon	Impeding use of Guam's right to fish on land adjacent to land proposed to be leased must be mitigated.

Page 10

Yes, it should be Route 15 instead of Route 18 and has been changed in the FEIS.

J-015-020

Thank you for your comment. Noise impacts to persons with post traumatic stress disorder were not specifically investigated. While there are concerns regarding people who suffer from this disorder, the noise levels that can trigger a reaction vary among people with the disorder and predictive methods are not available.

J-015-021

Thank you for your comment. The methodology and criteria used to assess potential impacts to land and submerged lands are based on 2 basic criteria: 1) changes in ownership and 2) compatibility and consistency with land use at the site and adjacent. This is an acceptable approach and the Final EIS is not modified. In your example, if an industrial facility is planned in an area zoned for or consistent with industrial land uses, the impact to land use would be less than significant. The impacts to groundwater, hazardous waste management or other EIS resource area would be addressed under those respective EIS chapters and significant impacts may be identified independent of the land use consistency analysis.

J-015-022

Thank you for your comment. The pockets of civilian use within DoD property is essentially self-imposed as you mention. The issue for DoD tends to be anti-terrorism force protection and separation distances are maintained. The DEIS identifies one example relevant to the proposed action. The Guam Shipyard is a commercial land use within a military base. This is a service that the Navy depends on being in proximity to the Navy waterfront facilities. The Navy land was historically used for

		Vol	Ch	Pg	Line, Tol, Fig	Org:	Commenter (last name)	Commen
J-01	5-630	l 2	9	3	Table 9.1-2	BSP/GCMP	BSP/GCMP	Land area at Haputo and Sharks Hole. Aren't there still squatters living there with military's knowledge?
J-01	5- 031	2	9			BSP/GCMP	BSP/GCMP	Quality of life ammenities are designed to segretate the communities (civilian/military)? Federally funded activities should not unfairly compete with civilian activities. Military operations, by their nature, deny the civilian population the use of their own cultural and recreational resources (Fena Massacre Ste) – by denying the community the right to the economic benefits that in small part may compensate, in an American setting, is troubling.
J-01	5- 032	2	9	32	9.2.7	BSP/GCMP	BSP/GCMP	the idea that the military, their family and guests should not have to compete with civilians for recreational usage is an affront to the people who's lands and homes and culture have been most affected by federal actions. The idea that it is a singlist for civilians and tourists to compete for water use or beach use or blining traits or cultural resources, but the families of military should not have to, is reminiscent of the positions of "separate but equal" of the past. The result of this policy would be that the military, their families and guests would have access to ALL recreational/cultural facilities on Guam while the resident population would only have access to some
	5-033	2	10	14	10.1.1.3	BSP/GCMP	BSP/GCMP	"Guam Rail only exists in captivity"
J-01	5-Q33	2	10	28		BSP/GCMP	BSP/GCMP	would be a major impact.
	56	2	10		general	BSP/GCMP	BSP/GCMP	Ibere is no discussion of the introduced monitor lizard. They have historically been found in forests at Haputo and other areas around Guam (both DOD and non-DOD lands. The same applies to Guam Blind Snake.
J-01	5- 034	2	10		general	BSP/GCMP	BSP/GCMP	While this reports states that there is no green sea turtle nesting at the site designated for the live- fire ranges, there are nesting areas north of that area. What are the impacts of 20 lb. explosions on turtle nesting? Is this an activity that should be curtailed during nesting periods as a form of miligation?
[58	2	10	62		BSP/GCMP	BSP/GCMP	aren't manurowe crabs also found in the Apra area, in addition to hermit crabs and coconut crabs?

Page 11

ship repair and the land was available for similar use when the Navy ship repair facility closed. The lease is subject to negotiation and both parties could modify the agreement to better serve their interests. The pocket of land within the base is beneficial to both parties.

Also, the military secures its bases and property primarily to protect its facilities, personnel, and other assets; this is typical of military bases everywhere, including the U.S. mainland. If public safety and security are not at stake, access to and through military property would be provided and, in many cases access, is allowed to use or visit recreational and cultural resources.

J-015-023

Thank you for your comment.

- 36. The text has been revised to read "existing".
- 37. The direct benefit would be to the submerged land uses on the western coast that are currently constrained by the firing range activities. The new ranges are proposed on the eastern coast. The beneficial impact on the west coast has no direct relationship to the proposed east coast ranges.
- 38. DoD and regulatory agencies are equally concerned about preventing contamination of surface waters and groundwater (particularly drinking water aquifers). The EIS describes numerous programs and actions that will be taken to protect surface waters and groundwater from stormwater runoff. Construction of new facilities will use Low Impact Development (LID) principles to the extent practical. LID is a design philosophy that seeks to reduce the impact to the environment from new construction projects through the reduction of impervious surfaces. LIDs principles incorporate the design of facilities with the use of native vegetation, pervious (porous) surfaces to reduce storm water runoff and

J-015-035 J-015-036 J-015-037	2	10	81	10.2.2.1	BSP/GCMP	BSP/GCMP	I am confused by this section. It lists secondary limestone forest to be disturbed, with Ochrosla mariannensis; Vilex Pavillora , or Vitex sparse canopy. These are all listed as introduced weeds in other studies, and are
	2						therefore not native species. Yet the report, at this point, states that their removal would result in a significant impact. pear-iflore.
J-015-037	+	10	103	last pera.	BSP/GCMP	BSP/GCMP	All pets brought into Guam should be spayed or neutered. This would lessen their impact should they become ferel, and would help reduce the number of pups or kittens that are dumped.
61	2				BSP/GCMP	BSP/GCMP	General note: a significant amount of negative impact on the environment is caused because of lack of knowledge. A one day class on Guam's environment for all in-coming military personnel and their dependents would go a long way in lessening the impacts. DOD and GovGuam could also produce simple brochures on the do's and don'ts for reel fists, forests, and beaches.
J-015-0238	2	10	140	4th para.	BSP/GCMP	BSP/GCMP	Ecological Reserve Areas, if they are to be created or expanded, should include significant management partnerships between DOD and GovGuam (DAWR). All of Quam's environment is a single environment and best management comes from treating it as such.
63	2	10	140	para.'s 6 &6	BSP/GCMP	BSP/GCMP	proposed study should include participation by DAWR, as they have responsibilities in research, monitoring and enforcement for sea turtles.
J-015-039	1 2	10	141	2nd para.	BSP/GCMP	BSP/GCMP	these appear to be positive measures and should be pursued.
J-015-039 J-015-040	2	11	9	5th para.	BSP/GCMP	BSP/GCMP	additional damages are deliberate, such as dynamite fishing, chiorine fishing, destruction of corals in harvesting gastropods or some fishes, deliberate taking of corals and live rock for aquarium use. These activities have been undertaken by all segments of the community, including military personnel. Education is the key to mitigation.
66	2	11	43	2nd para.	BSP/GCMP	BSP/GCMP	This paragraph states that Hawksbill turtles are in high concentrations in Sasa Bay - elsewhere, throughout these documents - the dearth of Hawksbills has been touted.
67	2	11	54	1st pera.	BSP/GCMP	BSP/GCMP	"and periodic benthic clean-up"
68	2	11	58	4th pare.	BSP/GCMP	BSP/GCMP	"(A short video and access pass before entry)"

encourage recharge of groundwater, and water conservation. DoD is currently conducting a LID study that will identify specific types of alternative designs that can be incorporated into the construction of facilities associated with the buildup.DoD is also preparing a stormwater pollution prevention plan (SWPPP) and will apply for permits that regulate stormwater discharges during construction. The permit and plan is focused on reducing the amount of earth and soil that is exposed to stormwater during earth-disturbing activities (such as land clearing and grading), providing stabilization of soils during construction through the use of ground covers, and sediment ponds and traps/screens to reduce pollutants getting into storm runoff and from percolating into the ground. These plans also have specific requirements for containment of potential pollutants at construction sites (such as storage areas for equipment fuel). Lastly, DoD is developing a construction and demolition (C&D) waste management plan in consort with the stormwater construction plan that calls for the use of mulch on exposed soils, mulch that will be generated during the clearing of trees and low growth during land clearing activities. Once construction is complete, a SWPPP will be developed to control stormwater runoff and infiltration from base operations. This is being done on a regional DoD Guam-wide scale, and has the involvement of Guam EPA.

- 39. The lease agreements are short-term and there is no commitment to relocate them.
- 40. The region of impact for the land and submerged land use analysis is 3 nm. According to the proclamation you mention, the area within 3 nm is referred to as the territorial sea. Territorial jurisdiction was extended by proclamation to 200 nm. The Final EIS wording is modified to refer to the territorial sea, not territorial jurisdiction.

J-015-024

Thank you for your comment.

		Vol	Ch	Pg.	Line, Tbl; Fig	Org	Commenter (last name)	Comings
J-01	5-Q 41	2	11	70	Table 11.2-6	BSP/GCMP	BSP/GCMP	Table recognizes the summer coral spawning, but report states later that no significant long term impacts of dredging will occur, though the only mitigation to dredging mentioned to this point has been sit screens. Mitigation should include complete essestion of activities during coral spewning, and absolute restriction on lighting of dredge or dredging area during night at those periods.
J-01	5-042	2				BSP/GCMP	BSP/GCMP	General note: what are current capacities available for sewer, water in those areas where DOD development is proposed (particularly Marine cantonment area)
J-01	71	2	12			BSP/GCMP	BSP/GCMP	where practicable, compensation for increased activity by DOD, and increased impacts on cultural resources, increased access to the more important cultural sites should be developed (Fena Massacre Site, etc.). There would be a large, negative public impact on development of the Route 15 firing range(s), in that all access to historic or cultural sites that currently exists in that area would be lost.
J-01	5- 04 4	2	12	65	table 12.2-6	BSP/GCMP	BSP/GCMP	why don't options 2 and 8 include cultural resource education of Marines (and their dependents)?
[73	2	12			BSP/GCMP	BSP/GCMP	It would appear that preferred option 2 would result in most serious impacts on cultural and historic resources.
J-01	5-045	. 2	13	68	figure 13.2-4	BSP/GCMP	BSP/GCMP	planing of tall shrubs or low growing trees inside the fenceline would help to improve the visual quality and would benefit both drivers and personnel in the housing.
[75	2	13	73	figure 13.2-9	BSP/GCMP	BSP/GCMP	again, landscape screening would mitigate the poor visual quality.
J-01	5 -046 76	2	14	7	14.2.1.2	BSP/GCMP	BSP/GCMP	"If the maximum annual number of vessels that would visit the harbor during the embarkation period exceeds the annual maximum since 1995, then a significant impact to marine transportation may occur. If the maximum annual number of vessels that would visit the harbor during the embarkation period is equal to or less than the annual maximum number of vessels since 1995, then there would be a less than significant impact to marine transportation."

Page 13

- 41. DoD acknowledges Bureau of Statistics and Plans position, but is not consulting with Attorney General's office.
- 42. The EIS acknowledges that the land use plan is not adopted. Since there was an extensive public involvement component during the development of the plan, it represents the community vision for land use. It is the best available up-to-date information at the time of EIS preparation, even if it is not adopted.

J-015-025

Thank you for your comment. The accident potential zones are not modified under the proposed action. These are pre-existing encroachment conditions that are disclosed as baseline conditions.

J-015-026

Thank you for your comment. DoD understands and recognizes the significance of cultural and recreational sites located on DoD property in Guam. Restricting access to certain DoD areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to DoD lands that contain cultural sites consistent with safety and operational requirements. Access will be granted at approved times such as when the lands are not being used for military training. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

J-015-027

Thank you for your comment. The Navy acknowledges there is potential for marine resources and aquifers to be affected by sea level rise, inundations from more extreme storm events and other consequences of

		Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Comment
J-01	5- 047	2	14	8	14.2.2.4	BSP/GCMP	BSP/GCMP	Utilizing only the numbers of ourrent visits pius the visits barge visits to address impacts is disingenuous at best, as it is anticipated that dredging for other Navy purposes (Carrier bething and associated needs) would be occuring at the same time. Any assumptions about impacts must be based on maximum anticipated activities, not on individual activities in a vacuum. Cumulative limpacts, in this case, would be the impacts from separate but simultaneous activities.
	78	2	14	10	14.2.2.6	BSP/GCMP	BSP/GCMP	Do these figures include the additional container arrivals based on the normal non-DOD related shipping needs of families and marines for private needs?
J-01	5- 048 79	2	16	33	16.1.6.1	BSP/GCMP	BSP/GCMP	the problems encountered on Okinawa will all reappear on Guam. The impacts that have been expressed by Okinawans after more than skrty years of occupation by U.S. forces would indicate that the DOD has NOT found adequate answers for them, and those same problems will likely just be transported to Guam - including erosion onto reefs, prostitution, constraints on other development avenues, etc.
J-01	5-049	2	16			BSP/GCMP	BSP/GCMP	General note: the change in ethnic make-up of the population on Guam will have consequences on voiling patterns, which have own the years allowed the native population (Chamorros) to retain a political majority on their own island. While not all military/familites/non-DOD workers register to vote on Guam, it is possible that a significant number will, with a probable result of reducing Chamorro's in the political arena to a minority role in their own homeland. This would have social consequences for theyound the election process.
J-01	5- 05 0	2	16			BSP/GCMP	BSP/GCMP	General note: What would be the estimated increase in Section 30 funds that would be returned to GovGuam?' Would H-2b workers have taxes withheld and would those taxes be part of Section 30 funds, or in some other way returned to Guam?
	82	2	16	54	Para. 3	BSP/GCMP	BSP/GCMP	While it is true that some new jobs offered would be filed by Guam residents and therefore help to reduce unemployment, it is also true that, historically, OOD personnel and their dependents compete for existing chill
	83	2	16	65	para. 7	BSP/GCMP	BSP/GCMP	*there would be no impact from marine based tourism". This section ignores the fact that 8,600 marines and their dependents would also be marine (ocean) based tourists, with a significant amount taking up divining. Coral reafs and underwater man-made objects are fragile and can easily be overwhelmed by even the friendliest of human encounters.

Page 14

climate change. The impacts may be both adverse and beneficial. The current level of scientific knowledge can predict trends in sea level rise based on historic data but there are no established methods for assessing and quantifying potential impacts on marine resources or aquifers.

The University of Guam provides analysis of the aquifer responses to sea level change and recharge in a November 2007 study. Climate change may impact the success of production wells in the future (e.g., the placement of the well screen may not be optimal if the sea level rises or falls). Given the uncertainty of climate models including lack of information that is directly applicable to northern Guam and lack of specificity regarding the time and degree of impacts to conditions that could impact the aquifer, the DoD wells would be installed based on current

conditions. Monitoring would be conducted during well operation. If production or water quality declines over time, DoD would take actions to mitigate the impacted wells.

A quantitative assessment of the additive or cumulative impact of climate change on the proposed action and natural resources, including aquifers, is not practical.

J-015-028

Thank you for your comment. Please see response to J-015-026.

J-015-029

Thank you for your comment. Safety zones are already designated around the Andersen AFB airfield. As discussed under mitigation in Volume 2, Section 8.2, in the event businesses and/or residences are required to be relocated, the land owners would receive financial compensation for the move.

		Vol	Ch	'Pg	kine, Tbl. Fig	Org	Commenter (last name)	Connen
J-01	5-051	2	16	85	table 16.2-51	BSP/GCMP	BSP/GCMP	The necessary increases for FTE's in GovGuarn would create a problem in that, after six month, these positions become permanent, yet the need for maximum numbers is for 3-5 years with significantly reduced need thereafter. As a reality, it is very very difficult to reduce GovGuarn FTE's lexcept fitrough not filling them once they become vacent positions for other reasons.
	85	2	18	99	table 16,2-53	BSP/GCMP	BSP/GCMP	there are some very good mitigation suggestions here and a "cocktail" of them, along with others not iterated, should be included as "musts" in response.
	86	2	16	85+	16.2.2.4	BSP/GCMP	BSP/GCMP	In-so-far as the issues which were raised by Okinawa residents, and addressed in this section, none of the responses given here are adequate. Each section appears to excuse its lack of conclusion and lack of mitigation response on the fact that no studies have shown a problem to exist. Federal cooperation is one factor that could be explored. Immigration and Naturalization Service should be brought more into the process, as prestitutes have regularly been brought into the area as "entertainment workers" under temporary work visas. This should be a signal to INS to enable them to deny entry or to red flag the establishments for which they are being hind. Table 16.1-10 in chapter 16, page 7 of this document supports the incent address the likely rise in both prostitution and increased incidents of STD resulting form that rise. Similarly, in this section, the idea that the problems associated with conflicts with FAS personnel will sort itself out over time has not proven to be true, as the problems now have been on-going since the compacts have allowed free entry into Guam. This section requires a great deal more work.
J-01	5-052 87	2	17	26	pare. 5	BSP/GCMP	BSP/GCMP	Navy ships produce hazardcus waste as a result of TBT losses in port. Reference was made in previous chapters to Tribuytlin, but only in passing. Given the history of anti-fouling paints in Navy ports (particularly Pearl Harbor), what is the anticipated load of TBT or any other fouling paint in the submerged lands of either inner or outer Apra Harbor as a result of the added ship calls?
	88	2				BSP/GCMP	BSP/GCMP	A decade ago, at NCTS (nearby the old MARS station, there were 55 gallion drums stored in the open in a forested area. Those barrels appeared very old and rusted, and they were removed and the concrete pad they were on was cleaned, and then new barrels were put on the pad, with the langanglangan left to grow around the area (it was also fenced). Did these barrels contain any hazardous materials? If iso, are they still in place?

Page 15

J-015-030

Thank you for your comment. The items identified in this comment are not part of the proposed action and are therefore not addressed in the EIS.

J-015-031

Thank you for your comment. The military secures its bases and property primarily to protect its facilities, personnel, and other assets; this is typical of military bases everywhere, including the U.S. mainland. Access to and through military property would be provided and in many cases access is allowed to use or visit recreational and cultural resources. These issues on base security, public health and safety, and access will be emphasized in the Final Environmental Impact Statement (FEIS).

The military base, in itself, is a community. It includes military personnel, housing for the military and their dependents, medical and dental facilities, discount stores, recreational areas, and schools. These are provided for the benefit of the military personnel and their dependents on bases throughout the U.S. The cohesion of the military base, like any social group, is based on the similarity of their jobs and duties, objectives, age, situation, and other military affiliation. Subsequently, their similarities and benefits within the base are not the principal reasons for what appears to be "a separation from the local community." Logistically, having housing within a contiguous base allows military personnel to be available should an emergency situation arise and immediate military action is required.

DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work to ensure that the short term impacts of construction are managed effectively and that the long term

		Vol	Ch	Pg	Line, Tol. Fig	Org	Conimenter ('ast name)	Commont
J-01	5-053 89	2	17		Table 17.2-1	BSP/GCMP	BSP/GCMP	Beginning with this table, and extending to all the following tables in this section, it is inadequate to state "No miligation measures are identified". At the very least there should be a statement in these tables that SMPs and site specific plans will be adopted or updated and that miligation training for response to those plans will be conducted. That is alluded to in text, but the language of these tables brings that into question.
	90	2	17		general	BSP/GCMP	BSP/GCMP	It is timpossible to assess the potential impacts of hazardous materials, waste, spillage, etc because of the generality of the information. For example; it was stated in passing (one sentence) that pestidides and herbidides were included. What are those exact products and in what quantity would they be used? With that information suggestions could be made for alternative chemicals, or for a non-chemical replacement.
J-01	5-054	2	18	2	18.2.1.1	BSP/GCMP	BSP/GCMP	Class A mishaps have changed since this writing. They are now defined as having at least \$3 million in damages.
	92	2	18	9	18.1.7	BSP/GCMP	BSP/GCMP	There was UXO deliberately stored at Camel Rock in Asan/Pitl area as late as the 1980s. Have those been removed? The presence of such where the community at large is likely to encounter them presents a problem that should be resolved.
	93	2	18	18	18.2.2.3	BSP/GCMP	BSP/GCMP	Are military personnel punished, or in any way negatively impacted in their career by reporting they have STDs? If so, then they may try to find treatment in the civilian sector, which would impact on medical availability to ono-DOD personnel.
	94	2	18	19	18.2.2.5	BSP/GCMP	BSP/GCMP	Bureau of Plans and Statistics Library had a study on sites where uxo was "dumped" at the end of WWII. If the book is still in the library, it should be studied for impacts on the proposed developments and actions.
J-01	5-Q55	2	18	19	18.2.2.7	BSP/GCMP	BSP/GCMP	The impacts of traffic on Guarn public roads, while unavoidable with increased personnel, could be lessened by staggering working hour starts, particularly during construction phase. I.E.; one third of day workers start at 6, one third at 7 and one third at 8am.
J-01	96	2	19	16	Land Acq.	BSP/GCMP	BSP/GCMP	Whether or not the private land owners are compensated for the land, will they be compensated for the loss of fishing resources at that site. For low income families on Guam, particularly those that like next to the shoreline, lishing and coesn harvesting make up a substantial part of their diet and, for some, their livelihood. In addition, the same resources (near shore) that are used by many islanders will now be reduced, putting greater burdens on other areas. This should be addressed in compensation/mittigation.

Page 16

effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

J-015-032

Thank you for your comment. The military secures its bases and property primarily to protect its facilities, personnel, and other assets; this is typical of military bases everywhere, including the U.S. mainland. Access to and through military property would be and will be provided; in many cases access is allowed to use or visit recreational and cultural resources. These issues on base security, public health and safety, and access are discussed in the Final Environmental Impact Statement (FEIS).

J-015-033

Thank you for your comment. Monitor lizards and the blind snake are discussed briefly as non-native wildlife on page 10-21 of Volume 2 and monitor lizards are mentioned as present in discussions of several of the project areas. Predator-proof fencing is discussed as potential mitigation and monitor lizards would be one species considered for fencing options.

J-015-034

Thank you for your comment. There are no nesting beaches along the east coast of Guam north of the proposed firing ranges based on documentation and general observations while hiking portions of this coast, therefore there was no need for an evaluation of potential impacts.

J-015-035

Thank you for your comment. There is an error in the description of the limestone forest areas that would be impacted. The second sentence under Vegetation should say "Some primary limestone forest would be removed as well as some disturbed limestone forest. The disturbed limestone forest areas that would be removed are classified as

		Vol	Ch	Pg.	Line, Tbi, Fig	Org	Commenter (last name)	Comment
J-01	97	2				BSP/GCMP	Torres	The Firing Range Alternstives The DEIS must evaluate all of DOD's land holdings and take into consideration joint basing for the live fire training facility. Any consideration of expanding DOD's land holdings through the acquisition of additional private or Government of Guam land must be an option of last rosert. For example the alternative to locate the Firing Range for the Martines at the present Navail Facility at Finegayan on the west coast should be re-considered in the Draft Environmental Impact Statement analysis of this undertaking. This particular alternative was shown, and therefore considered, in the Guam Integrated Military Development Plan 2006. This alternative was taken out completely of the DEIS of November 2009. According to responses to the model by JGPO's Bice and Jackson, that alternative was considered in the Draft and the market of the government of Guam at that time. Because the previously proposed Firing Range at Finegayan on the west coast was an alternative that was considered in the planning process, this alternative was done and the planning process. This alternative should be further considered and compensed to the now
	98	2	2	46-47		BSP/GCMP	Torres	The Buildup DEIS shows 2 firing range alternatives. They are both located in the same Pagat/Sasayan area on the east coast of Guarn. The boundaries of the alternatives appear to be the same (Vol 2, pg 2-46 – 2-47). However, the designs of the ranges differ (Vol 2, pg. 2-63) and as a result the Surface Danger Zone (SDZ) differ in size significantly. Why then don't the boundaries of the proposed alternatives change to reflect the change in size? Is this an error or does DOD intend to occupy all the land including private property?
	5-058 99	2	10	16,17,19, 20	Figs. 10.1- 5, 10.1-6, 10.1-7, 10.1-8	BSP/GCMP	Torres	More specific vegetation and occurrence of species surveys digital GIS coverage files should be shared with GovGuam.
1 01	5-059	2	11	3	Fig.11.1-2	BSP/GCMP	Torres	50 meter isobathy line is inaccurate. The line obviously goes over shallower reefs.
J-01	101	2	9	9.9	9.1.4	BSP/GCMP	Torres	The narrative mentions 'sailing and other Marine activities: However, the table should include mention of sailing (Marians Yach Club) and suring (Magnas Neet) in Apra Harbor as the sites in the Harbor area for those sports are some of its most significant sites on Guam, Failing to mention them here is significant in its omission. The DEIS also fails to mention the Hagetina Boast Basin and Rick's Reef as surfing sites in the central area.

Page 17

secondary mixed limestone forest, *Ochrosia* edge (*Ochrosia* mariannensis; langiti), *Vitex*-closed canopy (*Vitex* parviflora), or *Vitex*-sparse canopy." *Ochrosia* mariannensis is a native species but often grows at edges where there has been some disturbance. The significant impact, as defined in this EIS, would come from the removal of the primary limestone forest, not the secondary limestone forest.

J-015-036

Thank you for your comment. The U.S. Marine Corps has a written policy for all pets. All dogs and cats must be registered and implanted with a microchip so they can be tracked and controlled. These measures will prevent dumping unwanted animals.

J-015-037

Thank you for your comment. DoD will continue to work closely with the Government of Guam agencies to minimize the effects of the proposed military relocation program.

J-015-038

Thank you for your comment. A management partnership for the proposed Ecological Reserve Areas exists between DoD and the Government of Guam through the Integrated Natural Resources Management Plan.

J-015-039

Thank you for your comment.

J-015-040

Thank you for your comment. These comments are from the PDEIS comment period and were sufficiently addressed at that time. Text has been revised as appropriate.

		Vol	Ch	Pg	Line: Tbl, Fig	Org	Commenter (last name)	© Onminent
J-01	102	2	g	9.30	9.27	BSP/GCMP	Torres	Summary of Potential Mitigation Measures The DEIS fails to adequately address mitigation to recreation resources here as a result of the proposed activities related to the buildup. The 3 mitigation measures seem to have been given vary little though and are put forth to satisfy NEPA requirements to address the adverse inspacts. The DEIS needs to provide more details as to specific losse of recreation resources and how they intend to mitigate them. For example how does DOD intend to mitigate or minimize the loss for numerous people utilizing the roads and traits at Pagat, Anderson South, the Former FAA for walking, jogging and bicycle driding. Will they provide atternate jogging/hiking traits on the perimeter of their facilities? Will they assist the government of Guam in developing other traits? The loss of recreation resources with serious mitigation measures and not trivialized. These resources speak to the quality of life for the local community, but are also enjoyed by military residents and visitors alike.
J-01	103	4	4	4-10		BSP/GCMP	Burdick	In this section and in others, there is reference to relatively coarse grained sediments being found in the vicinity of dredging. However, there does not appear to be a summary of grain-size analyses data that was collected in 2006 as part of a NAVFACPAC study that is not readly accessible to the readers. Further, it is not appropriate to make comparative statements without quantitative data. Such statements must be be removed unless relevant quantitative data is provided. In addition, a summary of organic content measurements were not presented, and only brief mention was made to a related aspect of sediment composition. These basic data should be presented, especially considering the magnitude of this project and the miglic impacts to marine resources. Recommend including grain size distributions for the project site, and values from other locations if comparisons are to be made.
J-01	5-063 104	4	4	4-10		BSP/GCMP	Burdick	No data were reported regarding the infaunal composition of the sediments. The importance of soft-buttom habitats and their infauna to food fishes (Gomeyuk, 2009) was stated in the introduction to these comments. A full characterization of the marine environment, required by the EIS process, must include a characterization of the soft-sediment infauna. Recommend for this information to be included in the FEIS.

Page 18

J-015-041

Thank you for your comment. Under standard Navy dredging procedures in Guam, dredging would not occur during peak coral spawning periods. It is anticipated that this would be proposed as a special condition under the Section 404 CWA USACE permit for dredging in Apra Harbor. There is no data to show that artificial light influences coral spawning.

J-015-042

Thank you for your comment.

A detailed discussion of wastewater systems is in Volume 6 chapters 2 and 3. A brief summary of the capacity of the North District Wastewater Treatment Plant (NDWWTP): current demand is about 5.7 million gallons per day; current permitted capacity is 6 mgd; original design basis for this plant is 12 mgd; current estimated physical capacity is approximately 7 to 8 mgd. We feel that by refurbishing the plant it would be capable of the design basis 12 mgd plus some additional with chemical treatment and regulatory approval. The conservative peak demand would be in year 2014 and estimated to not exceed 12.13 mgd.

The current water capacity in the proposed Finegayan cantonment area is very minimal as most of the area is undeveloped. The DoD water system at Andersen AFB currently has excess capacity of about 1.7 mgd. The estimated average daily demand for the proposed Marine base there is approximately 6 mgd. For a detailed discussion of water needs and existing water systems, please refer to Volume 6 chapters 2 and 3.

J-015-043

Thank you for your comment. Please see response to J-015-026.

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-01	5-Q <u>6</u> 4	4	4	4-10		BSP/GCMP	Burdick	In this section and throughout the DEIS, there does not appear to be any mention of a specific Environmental Profection Plan (EPP), which is required for all WQS permits by Guarn EPA. While the details of the EPP bytically aren't feshed cut until the permitting process is initiated, the FEIS should inform readers about the process, including a general summary of what the EPP will entail.
	106	4	4	4-11		BSP/GCMP	Burdick	The existing Guarn water quality standards list these waters as M-2 or area of "Good" water quality. Please provide relevant quantitative criteria for M-1, M-2, and M-3 waters so readers are aware of these designations.
J-01	5- 0 65	4	4	4-11		BSP/GCMP	Burdick	Duration of dredging operations is stated as 6-18 months; this is a very large range and not useful when trying to assess impacts of dredging operations on marine waters. Recommend including a narrower estimated range. Further, please include the various dredge schedule options being considered, and how decisions with be made.
J-01	108	4	4	4-17	4.2.2.4	BSP/GCMP	Burdick	The coral mass spawning period should be identified here. This period should encompass the entire process of spawning and larval sattlement, including 1) a 5-day pre-spawning period to protect the larval development period appropriate for competency of broadcast spawning corals (Harrison and Wallace, 1990, Miller and Mundy, 2003), 2) an 8-day period following the full moon when corals have been observed to spawn (Kichmond, 1995), and 3) an 8-day post-spawning period during which larvae settle upon reefs and attached larvae have been observed to undergo peak metamorphosis, (Aliler and Mundy, 2003). The total of 21 days is thus strongly recommended for inclusion into the FEIS based upon published scientific data that describes each critical stage needed for successful coral reproduction. This criteria and language is currently part of the Commonwealth of the Northern Marians' Waler Quality Standarcis; all activities associated with the build-up of Tinian must follow these criteria, and is strongly recommended that these criteria ba addresor to Quarn as well.

Page 19

J-015-044

Thank you for your comment. As part of a program to avoid disturbing archaeological sites and artifacts, historic property awareness training will be provided to all Marines on Guam. This mitigation would apply to all of the Main Cantonment alternatives.

The DoD conducted archaeological surveys of over 5,000 acres of areas that could be disturbed as part of the Marine Relocation. During a three-year planning process, the majority of the archaeological sites were avoided by the proposed construction. As described in Section 12.2, Alternative 1 would disturb 22 sites, Alternative 2 - 25 sites, Alternative 3 - 23 sites, and Alternative 8 - 22 sites.

J-015-045

Thank you for your comment. The summary lists of BMPs and mitigation measures in Volume 7 were updated based on comments received during the public comment period and will continue to be updated after the Final EIS is published, during agency consultation and construction permit application processes. BMPs and mitigation measures listed in the Record of Decision and attached as conditions to a permit will be implemented.

J-015-046

Thank you for your comment.

J-015-047

Thank you for your comment. Both proposed dredging activities have been addressed in the EIS. It is not anticipated that the proposed dredging of the inner harbor and proposed dredging to accommodate the transient aircraft carriers would occur in the same timeframe.

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (fast name)	Common
J-01	5-067 109	4	4	4-17	4.2.2.4	BSP/GCMP	Burdick	What exactly are "rough sea conditions" to which the third bullet point in this section refers? These conditions must be clarified. Also, the sediment dispersal study in Appendix J uses a 90-100% still curtain effectiveness for all sociarions. Such high effectiveness sivels equate to little or sitt curtain failure. It seems probable that curtain failure and sediment leakage (at some level) is inevitable. This assertion is supported by multiple anecdotal reports, particularly with regard to current dredging operations at Kilo Wharf. Recommend revising the models to include various rates of failure in predictions, and present findings in revised FEIS. Also, a null model for sediment dispersal should be included to understand the relatince placed upon cursins effectiveness.
J-01	5-068 110	4	4	4-33		BSP/GCMP	Burdick	It is not clear why nutrient or bacleria density data were not collected when water sampling occurred. Clearly, increased aircraft carrier activity has the enormous potential to increase pollution loading through direct runoff from the large ship platform, as well as through bilgo waters. This is the equivalent of major watershed urbanization with impervious surfaces that are known to contain elevated bacteria and nutrient concentrations (Maillie et al. 2009). Background levels of the perinent water quality constituents are needed, and should be included in the FEIS. Nutrient and bacteria concentration data are needed to serve as a basis for potential changed over time. The data must be appliatly and temporally sufficient for an appropriate characterizaties.
J-01	5-069	4	4	4-30		BSP/GCMP	Burdick	of "tower ecological value," in part due to algae covier estimates (~40%) that are nearly twice the covier of living coral. This conclusion is incorrect, and is not supported by the scientific literature. First, most golobally around the world have had similar algae cover-coral cover ratios (as reported in the DEIS) for decades (see Brunn et al. 2007 and Brunn et al. 2009). This is a natural feature of coral reser cosystems. A key attribute of rest health/function that was also brought up by nearly all of the peer-reviewers of the CVN Marine Impact Assessment Report (Appendix J), is calcification, in order to make statements about absolute reeff-health within a confined area, sike Apra Harbor, one would need to accumulate valid photosynthesis-to-respiration ratios. At ecological scales, when comparing multiple resist around entire jurisdictions, the most relevant health indicators appear to be centered upon coral species richness, recruitment, and overalt biodiversity (Jokkiel et al. 2004, Coopor of al. 2009, Houlk and van Woeskii, in Pross). In all of these studies, coral cover did not serve as a good metric of health - yet the DEIS relies solely upon coral cover and accompanying "Impackage" registly as descriptors of reef function and are used in the HEA to

Page 20

The discussion of marine transportation has been updated and included in Chapter 14 of Volume 2 of the Final EIS.

J-015-048

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

J-015-049

Thank you for your comment. The DEIS identifies that there is a potential for the incoming population to have the ability to vote (almost all the military population would be U.S. citizens) like other Guam residents. Additional discussion on this issue is on page 4-130 of the SIAS. Given the opportunity to vote in local elections, there is a possibility that new candidates may choose to run for office and persuade the new population to vote for different leadership or causes. On the other hand, off-island U.S. construction workers, military and their dependents may choose not to vote in local elections, especially given their typically short tenure on the island. There was no attempt to state this as a probability, but only a possibility.

To be eligible to vote in Guam's elections, individuals must meet the following requirements:

- Not confined to a mental institution, nor judicially declared insane;
- Not serving a sentence of imprisonment;
- Citizen of the United States;

		Vol	Ch.	Pg	Line, Tol. Fig	Org	Commenter (last name)	Comment
J-01	112	4	4	4-30		BSP/GCMP	Burdick	following dredging, however, no quantitative data or scientific reasoning is provided to support the statement. Where does the settmander recovery time frame come from? Relative to what? Armosbury (1981) found that fish assemblages in dredging impact zones, where fine sediments accumulated during dredging, were significantly and permanently altered. This study was carried out over a 3 to 4-year period. Brown (1980) reported 22 months recovery time for corals on reefs adjacent to dredging (i.e., the indirect impact zone). However, the results of both of these studies were dependent upon the timeframe and magnitude of dredging, the reef assemblages in question, and an array of environmental parameters (depth, exposure, ambiant furbidity, etc.). Thus, the cumulative impacts, or time-integrated responses of the reefs surrounding dredging, may differ widely, any analysis of the results of these and similar studies must include a detailed discussion about the various factors influencing ecosystem impacts, and how those factors may be different (or similar) to the study area in question. In the DEIS, the estimated timeframe is presented as a wide range (6-18 months), which suggests widely varying rates of delly dredging. The FEIS needs
J-01	113	4	4	4-33		BSP/GCMP	Burdick	ecosystem, several relevant water quality parameters, such as the suite of nutrients that can enhance producityly, are not considered. In fact, the potential for increased nutrient enrichment as a result of construction and operations is not discussed anywhere in Volume 4. The re-suspension of fine organics that occur in the dredge area are dismissed because organics were found to make up only a small fraction (by weight) of sediments. However, when this small fraction (even if as tow as 1%) is multiplied by the total volume of dredge material to be excusted (~550,000 mS), the results are the re-suspension of 3,500 mS of organic, nutrient-rich sediment. Indeed, this re-suspension of organic sediments represents a contribution of pollution to reefs as large as initial transport from Indi-drunoff or other upland activity (Woldansid et al. 2003). The clot study describes such a situation for one embayment in Southern Guam, with regards to re-suspension of traingenous and other sediments due to large typhono-induced sweds. The dredging will act on the sediments in a similar fashion, facilitating the re-suspension of large quantities of organic, nutrient-into sediments. Increased nutrient availability from re-suspension of these particles, and

Page 21

- Legal resident of Guam; and
- Eighteen (18) years of age by Election Day.

In the Guam 2008 elections there were nearly 50,000 registered voters.

J-015-050

Thank you for your comments. Distribution of Section 30 funds are not part of the proposed action and are not discussed in the DEIS. H2B workers will be required to pay U.S./Guam personal income tax.

Please see the Socioeconomic Impact Assessment Study (SIAS) which is Appendix F in Volume 9 of the DEIS for other information on economic impacts related to the proposed action. Analysis of Labor Force Demand (which begins on page 4-147), under both the unconstrained and constrained scenarios, assumes that some military dependents would be employed as civilian military workers - up to about 940 dependents working as civilian military workers. Analysis in the constrained scenario further estimates that other military dependents would participate in the Guam labor market, and would compete for jobs with other Guam residents.

Please see the SIAS Section 4.3.7 for information on Tourism. The analysis of the impacts on tourism generally reflect that the impacts of the proposed action would have on tourism would be mixed. Tourism may decline as some visitors may shy away from Guam due to construction activities and an increased military presence on the island but that would be made up for by increased visits from members of the military who are tourists while their ships are docked on Guam.

Impacts to marine resources are discussed in the marine biological resources chapters of the DEIS.

		Vol	Ch	Pg	Line, Tol Fig	Org	Commenter (last name)	Comment
J-01	5- 072 114	4	4	4-40		BSP/GCMP	Burdick	In the course of preparing this DEIS and the surveys leading to it, contentious discussions between Guam agency-based staff and US Miliary consultants were evident regarding artificial reefs. In response to Kilo Warf dredging, Guam's Costal Zone Management Program, as well as many others, logged complaints with the introduction of artificial reefs as possible mitigation. Based upon these documents, and the science cited within them, it is clear that artificial reefs are not desired, not warranted scientifically, and should be removed from all discussion in the final EIS. In the event that artificial reefs remain in consideration, several sets of detailed comments are already on record, and must be responded to.
J-01	115	4	11	11-1	Para. 2	BSP/GCMP	Burdick	Based on the experiences of the GCMP Biologist on these reefs, the statement "these reefs all consist of relatively flat and shallow upper surfaces that are covered primarily with muddy sand and rubble" does appear to be not accurate. Recommend that this statement be removed or that the information be validated. Much of the top of Jade Shools has significant coral cover, primarily Porities rue and massive Porelies spooises, while non-coral areas are dominated by rubble and hard substrate colonized by algae. While the shallow (<3 m) top of Western Shools seems to have less coral cover than Jade Shools, if do not necell muddy sand being a major cover type. Instead, coral rubble and hard substrate colonized by algae (similar to Jade Shools) dominated the top of the shools. The GCMP Biologist is not as familiar with Big Blue Reef, but suspect the top to be similar to Western Shools. While these shools receive less wave energy compared to reefs outside the harbor, there is still enough wave energy acting upon these reefs to prevent the accumulation of much muddy sand, except perhaps on the eastern sides of the shools.
	116	4	11	11-1	Para. 3	BSP/GCMP	Burdick	The beginning of this paragraph states that the project area does not contain any of the shallow shoel particl rects, but it appears as though deeper portions of Jade Shoels and the shallow shoels immediately to the north of Big Blue Reef falls within the project boundary. In addition, this statement does not take into account the indirect impact area, which encompasses large portions of all of the shallow shoels. This statement should be changed to more accurately reflect the potential impacts to shallow shoels within the vicinity of the project area.

Page 22

J-015-051

Thank you for your comment. Your recommended mitigation measures have been taken under consideration and extended mitigation discussion is now available in Volume 7 of the FEIS.

J-015-052

Thank you for your comment. The U.S. Navy applied tributlytin TBT-based paint to ships in the 1979-1988 time frames. The use of TBT in the U.S. was banned in 1988. The last Navy ship to use TBT had that coating removed in 1994. The Navy currently uses copper-based antifouling paints and is actively exploring less toxic alternative coatings. HTIS BULLETIN Vol.9 No.3, May - June 1999. Tom McCarley, HTIS 2 Global Invasive Species Programme (GISP). 2008. Marine Biofouling: An Assessment of Risks and Management Initiative. Compiled by Lynn Jackson on behalf of the Global Invasive Species Programme and the UNEP Regional Seas Programme. 68 pp.

Regarding the drums mentioned at NCTS, any known information regarding these is contained in Volume 2, Chapter 17 of the EIS document. As a policy, the DoD is committed to the protection and responsible stewardship of the environment. The DoD is committed to the safe handling and use of all hazardous substances, including lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, etc. In fact, when feasible, the DoD is attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and substituting them for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and regulations, DoD has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations

		Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Commen
J-01	117	4	11	11-1	Para. 3	BSP/GCMP	Burdick	The second sentence in this paragraph states that "this area was dredged in 1946" but, even without making the changes requested in the previous comment, this statement does not seem supported by adequate evidence. While it may be true that the majority - or even most - of the area within the proposed dredging feotprint was dredged in 1946, it is unlikely that all of this area had been dredged. In addition, when considering the indirect impact area, which encompasses large portions of all of the large, shallow shoals, this statement is not appropriate. It is also important to note that the entirely of a cleaper (-940 th) shoals (to the west of Jade Shoals) fails within the direct and indirect impact areas. It is not clear if this shoals had been dredged in 1946, but the remarkable real growth on this shoals suggests that it had not. Finally, there exists a large amount of real habital at depths below 60 float. The slopes of the reries to be dredged generally possess greater coral coverage than the tops of these "mounds," likely because they were not as catastrophically impacted by the dredging in the 1940s.
	118	4	11	11-3		BSP/GCMP	Burdick	general reference to an "assessment being made to quantify the resource services lost." If the alm was to assess the ecological services that would be lost as a result of dredegingtill activities associated with the CVN Berthing project, it is not clear why remote sensing techniques were relied upon so heavily. It was pointed out by one technical reviewer (Dr. Katheriner Fabricius) that given the relietly small size of the project area (as opposed to large reaf tracts assessed and monitored by various governmental and one-governmental entities), in situ transact work could have easily been oppanded to include more riginorus data collection (i.e., longer transacts with replications at each sita) in all of the habitats within the area of interest. The dependence upon satellite-derived data, with initial amounts of photo quandrat-besed ground validation data, is a serious limitation of the impact assessment. These data were not able to differentiate between the ecological assembliages across guite different biotypes' (i.e., rubble, mudisand, mixed coral-algee, patch-red margins, etc.) known to occur within the project area. Shoppard (1982) clearly describes how exposure to wind and waves, varying slope, surface current patients, and gradients

Page 23

mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage, spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are fully described in the EIS document. However, these are not considered mitigation measures since they are already being performed by law and do not represent new actions to "mitigate" hazardous substance usage issues. If a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are mitigated quickly and effectively. In many cases, part of remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. These actions (e.g., BMPs, SOPs, etc.) will protect public health, welfare, and the environment from adverse impacts associated with the use of solvents, herbicides, pesticides, fertilizers, PCBs, MEC, nuclear materials, and other hazardous substances.

J-015-053

Thank you for your comment. The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, etc. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and substituting

		Vol	Ch	Pg	Line, Tb), Fig	Org -	Commenter (last name)	Continuent
J-01	5- 075 119	4	11	11-3	Para. 1	BSP/GCMP	Burdick	As described in the 3rd sentence in this paragraph, coral cover has indeed been used as an indicator metric to represent lost services in Habitat Equivalency Analyses (HEA) to scale compensatory restoration. However, the local and federal resource agencies have consistently supported a more comprehensive approach to characterizing the coral community involving size frequency distribution from the beginning of discussions with the Nary regarding coral survey methodology, HEA inputs, and compensatory mitigation. Such an approach is supported by the available titrature.
	120	4	11	11-3	Para. 1-3	BSP/GCMP	Burdick	All of these paragraphs repeatedly refer to Natural Resource Damage Assessments (NRDA). While It is not inappropriate to refer to NRDA in such a discussion, it is important to addifferences between NRDA (specifically, the regulations under which NRDAs are conducted) and assessments required to satisfy Clean Water Act requirements, particularly the Final Mitigation Rule.
	121	4	11	11-3	Para. 3	BSP/GCMP	Burdick	The last sentence in this paragraph states that "a nearly complete understanding of coral reef ecological services is required to objectively determine whether selected compensatory restoration projects adequately restore bot services for a given njury." However, the Viehman et al. paper actually states that a "more complete understanding of coral reef ecological services is required" The phrases "a nearly complete" and "more complete" have very different meanings. This sentence should be changed to more accurately reflect the statement in the Vehinann paper.
	122	4	11	11-4	11.1.1 /	BSP/GCMP	Burdick	See comment below about concerns regarding peer review of the study, "Assessment of Benthic Community Structure in the Vicinity of the Proposed Turning Basin and Berthing Area for Carrier Vessels Nuclear (CVN) Apra Harbor, Guarm' by Dollar et al. (2009).

Page 24

them for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and regulations, DoD has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage, spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are fully described in the EIS document (Volume 7). The BMPs. SOPs, and other controls to be used by DoD are fully described in the EIS document (summarized in Volume 2, chapter 17 and described in Volume 7). However, these are not considered "mitigation" measures" since they are already being performed by law and do not represent new actions to "mitigate" hazardous substance usage issues. If a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are mitigated quickly and effectively. In many cases, part of remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. As part of the clean-up process, the DoD provides various opportunities for the general public, stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs)

		Vol	Ch	Pg	Line Tbl, Fig.	Org.	Commenter (last name)	Commed
J-015-	123	4	11	11-4	11.1.1	BSP/GCMP	Burdick	Here the DEIS states that the report "Habitat Equivalency Analysis (HEA) and Supporting Studies" by Navy (2009) was "peer reviewed by eight renowned coral scientisis" and that the reviews are included in Volume 9, Appendix 4. The peer review (see comment below for concerns regarding peer review) appears to only portain to the study "Assessment of Benthic Community Structure in the Vicinity of the Proposed Turning Basis and Berthing Area for Carrior Vessels Nuclear (CVN) Agra Harbor, Guarn" by Dollar et al. (2009). This is an major oversight, and one that misleads readers into thinking that the HEA and all supporting studies were peer reviewed by the work's leading coral reef scienties. This is not true, and even the peer review carried out for the single study above does not address the resource agencies" main concerns about the study's methodology and the appropriatnesse of using the data collected by the study in the HEA.
	124	4	11	11-5	11.1.1.1	BSP/GCMP	Burdick	The first paragraph on this page very briefly refers to a study conducted by the U.S. Fish and Wirdliffs Service, Guarn Coastal Management Program, University of Guarn Marine Lab, and the National Marine Fisheries Service entitled, "Comparison of a Photographic and an In Situ Method to Assess the Coral Reef Benthic Community in Apra Harbor, Guern." The DEIs suthors state that the data collected for this study were not used in the DEIs, and the study was relegated the study to the Appardices. The data collected as part of the study is viable, scientifically defensible and should have been incorporated into the impact analysis. At the very least, the Indings of this study should be discussed in considerably more detail, especially since it calls into question the appropriateness of using the methodology enjoyed by the Navy consultant in an impact assessment of a project of this magnitude, as well as the validity of some of the data collected using this methodology.

Page 25

where interested party questions and concerns may be communicated. These comprehensive actions (e.g., BMPs, SOPs, etc.) will protect public health, welfare, and the environment from adverse impacts associated with the use of solvents, herbicides, pesticides, fertilizers, PCBs, MEC, nuclear materials, and other hazardous substances. With regard to assessing potential impact, by knowing the categories of hazardous substances and the estimated quantities (derived from actual DRMO operations numbers in Guam and Okinawa which currently handle such wastes) the potential impacts of inadvertant leaks, spills, or releases can and has been identified in Volume 2, chapter 17.

J-015-054

Text has been revised to clarify Class A mishaps are thee that result in damage of \$3 million or more. The current existence of UXO at Asan/Piti is unknown. The EIS specifies that to reduce the potential hazards related to exposure to MEC, qualified UXO personnel would perform surveys to identify and remove potential MEC items prior to the initiation of ground disturbing activities. The general public would be excluded from entering construction zones and training areas. Additional safety precautions would include: UXO personnel supervision during earthmoving activities and providing MEC awareness training to construction personnel involved in grading and excavations prior to and during ground-disturbing activities. The identification and removal of MEC prior to initiating construction activities and training construction personnel as to the hazards associated with unexploded military munitions would ensure that potential impacts would be minimized. Medical records are not a consideration in military personnel career decisions unless a physical limitation arises (e.g., pilot with burst ear drum). Military personnel are instructed to seek medical attention once signs of a condition arise to ensure treatment is started as soon as possible. Military personnel should not be seeking medical services at non-DoD clinics or hospitals. UXO professional would consult existing

		Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Comment
J-015	125	4	11	11-14		BSP/GCMP	Burdick	(i.e., the habitat classes that describe sand habitats, turl algae, coral, etc.). See above comments and recommendations surrounding why field dart didn't distinguish between very back features and gradients. Multivariate data was presented in the referenced marins surveys to show how biotypes were not well predicted by field data. This lack of structure in the data, even along basic environmental gradients such as wave exposure, suggest these in field data replication and/or taxonomic resolution (also discussed above). However, the reader is still led to believe these bodypes represent a habitat rapping scheme. But, starting one pis affile to the five these bodypes represent a habitat rapping scheme. But, starting one pis affile to taking different habitat classes are now introduced, with no introduction as to how or why. There are six different classes of coral cover; 0%, 0-10%, 0.30%, 0.30-0%, 0.670%, and 0-0%. Erist, there was no discussion surrounding the spectral signatures of the initial 'biotypes' or the secondary coral cover classes. Although the othersiev, non-significant analysis of multivariate data is presented for field data, these are not used in the final HEA assumptions. Recommend removing all analyses of these field data, as they are not robust enough (described above) to provide meaning on their own, and can
	126	4	11	11-15	11.1-10	BSP/GCMP	Burdick	It is unclear how such a detailed image classification can be performed on relatively deep reef areas (<10m) in an area characterized by higher levels of turbidity than in more exposed reef areas. While it is difficult to assess the quality of the image presented in the figure, it does not appear as though these deeper areas are visible - and if they are, that very little detail, discombib. I understand that there are techniques to enhance an image for spectral analysis, but I am not aware of processes that allow one to differentiate 10 classes of coral cover for deeper red areas, the rough shape of which can barely be made out from the image in this figure, if at all [Even the incorporation of lider bathymetry data does not seem adequate enough to reach the level of detail claimed. An example is the deeper (<14m) shoals due west of Jade Shoals. A detailed classification is provided for all reef area on this shoals occurring between 60 feet and the top of the shoals (about 45 feet).

Page 26

documentation that identifies the types and location of UXO to aid in protecting the public, construction workers, military personnel, and themselves.

J-015-055

Thank you for your comment. As indicated in Volume 6, Chapter 4, page 4-87, a proposed mitigation for impacts to traffic from the buildup is the development and implementation of a Traffic Management Plan, which includes among other measures, staggered work hours, flextime, and compressed work weeks.

J-015-056

Thank you for your comment. DoD understands and recognizes the significance of cultural and recreational sites located on DoD property in Guam. Restricting access to certain DoD areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to DoD lands that contain cultural sites consistent with safety and operational requirements. Access will be granted at approved times such as when the lands are not being used for military training. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

J-015-057

Thank you for your comment. The DEIS describes the intensive selection process that the DoD went through to select alternatives for the location of the firing range on Guam in Section 2.3.1. Specific reasons why the firing range could not be located on the west coast at Finegayan include the following. There was concern that the amount and location of submerged land that would be encumbered by the SDZs generated by

		Vol	Ch	Pg.	Line, Tol. Fig	Org	Commenter (last name)	Comment
J-01	127	4	11	11-19		BSP/GCMP	Burdick	proposed aircraft carrier project currently is "of marginal to modest ecological value" is highly subjective and does not appear to be supported by available scientific data. It is also not clear why such a statement would even be necessary, and suggest that it be removed. The area within the project boundaries for each alternative possesses a range of coral red habitats, with some appeared project boundaries for each alternative possesses a range of coral red habitats, with some area possessing significant biological diversity, structural complexity. Surveys conducted by the resource significant biological diversity, structural complexity. Surveys conducted by finance apparently unique to Apra Harbor, and possibly unique to the general vicinity of the project boundaries. This is consistent with the findings of a Navy-funded study conducted by Paulay et al. (1997), which describes numerous species found only within the harbor. The study also described several distinct physiographic/ecological zones within the harbor, with each possessing unique environmental characteristics and supporting ecological assemblages distinct from other zones. The project area, which lies to the west of Sasa Bay, falls aimost entirely within a definit zone. While this area is described as not having as high biological diversity as a rose
	128	4	11	11-21		BSP/GCMP	Burdick	consistent bias towards minimizing impacts of sediment on corals. For example, the Connell (1997) study examined responses to hybnons. Typhons and froncial storms are acute disturbances, lasting, at most, only a few days. By referring to this study in the manner presented in the DEIS, the DEIS authors appear to classify dredging impacts as acute, despite the activity to occur over many months, possibly close to two years. Clearly, the two types of disturbances are significantly different, and comparisons between the two are not particularly informative. The reference to Connell (1997) should be removed or these very important differences should be explained. In addition, throughout the discussion on the impacts of sediment on corals, the results of several shotles are mifrenced without placing these results into the proper context. For example, the DEIS states that the indirect impacts to corals from dredging activity would be mainly isodiments. There are fundamental differences between these sediment types. Most notably, terrestrial sediments. There are fundamental differences between these sediments without placed and the property of the property
	129	4	11	11-21		BSP/GCMP	Durelick	No supporting literature is provided for the use of the spectral band ratio (NDVI) to estimate coral stress. It is common knowledge that this index will change with depth, light-levels, and many other natural factors. The reviewers (Appendix J.) appear to agree with this too. This analysis does not seem necessary and could be removed from the FEIS.

Page 27

the ranges on the west coast would be an unacceptable impact on recreational activities and traditional fishing areas, which are prevalent on the west coast. Secondly, higher density civilian development in vicinity of ranges increases risk of encroachment. Discussion on the screening process associated with the firing ranges has been clarified in the FEIS.

The boundaries of the two alternative firing range locations are different. The size of the area for Alternative A is 921 ac (373 ha), while Alternative B is 1,129 ac (456 ha).

J-015-058

Thank you for your comment. Requests for GIS information should be made to:

Vanessa E. Pepi Supervisory Fish and Wildlife Biologist Naval Facilities Engineering Command, Pacific EV2 Environmental Planning 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134

Tel: (808) 472-1406

E-mail: vanessa.pepi@navy.mil

J-015-059

Thank you for your comment. Figure was verified in the FEIS.

J-015-060

Thank you for your comment. The EIS has been revised.

		Vol	Ch	Pg	Line Tol. Fig	Org	Commenter (last name)	Comment
Į-01	5 -079 130	4	11	11-21		BSP/GCMP	Burdick	Given the lack of in sits measurements, the reliance on photos, and the inability of the photo- quadrat method to collect accurate coral colony size frequency data (as identified in the comparative study carried out by the resource agencies - Appendix J, and by one of the peer reviewers, Dr. Fabricius), the size frequency analysis section must be removed from the DEIS. It has no scientific meth and therefore offers no assessment of existing conditions. Colony size data must be collected for the coral assemblage characterization using an appropriate method. These data is essential for understanding the impacts of the proposed project, the dynamics of change over time, and for determining the appropriate level of compensatory mitigation. These data must be reported in the FEIS.
is a second	131	4	11	11-23	Para. 1	BSP/GCMP	Burdick	This paragraph summarizes some of the findings presented in Rogers (1990), with an emphasis on points raised in the paper that minimize the impacts of deedging on coari end occeyetoms. However, the DEIS authors neglect to include Rogers' concluding comments in the section in the relevant section in her paper. The examples of deedging projects that either had no significant impacts to coral reci ecosystems or that apparently benefitted them, are presented in same order in this paragraph in the DEIS as provided in the first paragraph of page 186 in Rogers (1900). However, after the last example involving the project to extend an arport at St. Thomas, Rogers states that "esdements are less kiedy to cause a problem when strong currents are present as in this case. In some of these studies, more detailed or longer investigations might have revealed detrimental effects." It is clear the point the DEIS authors are trying to make here, and it is duly noted, but a more complete analysis of the cited literature should be included in order to avoid coming to an oversimpfifice conclusion.
	132	4	11	11-23		BSP/GCMP	Burdick	Last paragraph: It is important to include a discussion of the important differences between study areas in the literature cited here and the CVN project area, as different factors associated with study area may make comparisons of study outcomes problematic. For example, the work conducted by Brown (1950) was conducted on a massive Portles-dominated reef flat community.

Page 28

J-015-061

Thank you for your comment. It is the intent of DoD to maintain public access to the cultural and historic sites at Pagat and Marbo consistent with safety and operational requirements. Restricting access to certain DoD areas at certain times is required to maintain public safety. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites. Specific mitigation measures for loss of recreational use on former FAA property and Andersen South are not offered because these properties are private and/or under Government of Guam and under military ownership, respectively. Once plan implementation is underway, these properties would need to be secured primarily to protect its facilities, personnel, and other assets; this is typical of military bases everywhere, including the U.S. mainland. Restrictions to certain areas are required to maintain national security and public safety. However, access to and through military property may be allowed and in certain cases access may be allowed pursuant to policies in place at the time.

J-015-062

Thank you for your comment. The majority of the sediment (e.g., >50%) is comprised of larger grained material and therefore is generally referred to as being "coarse" in the EIS. Sediment grain size data is presented as a percentage and is discussed as such in the EIS. The three-dimensional circulation and transport model of the project area was developed using the Environmental Fluid Dynamics Code (EFDC). The model included wind and tide forcing, and fresh water inflow into the Inner Apra Harbor; the dredge plume was simulated by loading the water column with specified quantities of suspended sediment composed of 5 different grain sizes. The sediment grain distribution was determined

		Vol	Cit	Pg	Line Tbl. Org	Commenter (last name)	Comment
J-01	133	4	11	11-26	BSP/GCMP	Burdick	Included as a matter for the public record. The evolution of the disagreement regarding the use of coral percent cover and coral density and size frequency data to describe ecological function and as inputs into a HEA must be addressed publicly. From the beginning, the local and federal resource agencies have been unanimous in the conclusion that prematic coral cover alone is not adequate and that colony density and size frequency data can significantly improve an assessment of ecological function and can significantly improve the HEA outputs. There didn't appear to be an issue with this apprecach until one of the Navy consultants tolarined that it is not possible to collect colony density and size frequency data for certain reef communities—such as those within the impact area—that are dominated by corals (e.g., Porties rus, Porties cylindrica, Pavona cactus, staghorn Acropora spp.) whose growth forms make it challenging to discern individual colonies. The Navy consultant hus recommended that only percent coral cover be collected. Such an assortion was not supported by a range of experienced coral reef scientists subsequently brought no na conference call aimed at resolving the issue. Unfortunately, the consultant in question
	134	4	11	11-26	BSP/GCMP	Burdick	of the methods comparison study carried out by the resource agencies (Appendix J), the photo- cuderta method used by Dollar et al. (2009) did not produce reliable settlinates of coral oxform size and density. The decision to count all colonies partially or wholly within the quadrat, combined with a measurement of the longest clouny dimension of even colonies hat verve only partially ornationed in the quadrat, would inevitably produce colony size frequency distributions blased towards smaller colonies. For example, the small (say, 10 cm) portion of a 50 cm cours colony that extended into the quadrat would be measured and counted as a whole colony. This is a major methodological flaw and these data must be discarded. Because the photo field of view does not extend beyond the quadrat frame, the measurement of any colonies not wholly within the quadrat cannot be taken, it would not be appropriate to even count only those colonies with their centers within the quadrat (entire common decision rules employed with in situ measurements of colony sizes), as it is not possible to tell where the colony center less if any portion of the colony extends outside the quadrat (although somewhat reliable estimates could be made for species that typically have more

Page 29

from bottom samples taken in the project area. The EIS has been updated to present collected grain size data.

J-015-063

Thank you for your comment. The seafloor tends to be hard material at the proposed CVN project site. In areas of soft sediment, the potential additional deposition of sediment associated with dredging would not represent a change in habitat integrity for infaunal organisms. Any impact to infaunal or epifaunal organisms would be short-term and localized. References supporting this have been included in the FEIS.

J-015-064

Thank you for your comments. The EIS has been revised to include a general description of the Environmental Protection Plan and what elements could potentially be applicable to WQS permit requirements developed through agency coordination. Relevant quantitative data for M-1, M-2, and M-3 waters has been added to the FEIS.

J-015-065

Thank you for your comment. At the current stage of project development, a timeframe of 8 to 18 months is estimated. Further refinement of the dredging timeframe will occur during the final design and permitting phase.

J-015-066

Thank you for your comment. The USACE permit special conditions section will specify the required period of suspended activity based on input from the University of Guam Marine Lab.

J-015-067

Thank you for your comment.

For all practical purposes, sea conditions are considered to be rough

		Vol	Ch	Pg	Line, Tbl, Flg	Org	Commenter (last name)	Comment
J-01	5-081 135	4	11	11-26		BSP/GCMP	Burdick	Last paragraph: The DEI authors state that Porties lutes colonies were never encountered with a long dimension greater than 31.5 in (80 cm). It is impossible to obtain a coral colony diameter measurement preafer than 118.6 cm using the photol quadrat size employed by Dollar et al. (2009), and the chances of the quadrat fatling squarely on a large colony so that occupies the entirety of the quadrat is small. Recommend removal analysis of the size-frequency data colonyed by Dollar et al. (2009) and strongly recommend collecting colony density and size frequency data as part of an impact assessment utilizing appropriate methods. The presence of very large (>150 cm) Porties rus colonies requires the use of a larger quadrat in these areas.
	136	4	11	11-31		BSP/GCMP	Burdick	Last paragraph: To which measure of rugosity are the authors referring in the second sentence? Presumably this refers to rugosity as measured with the standard chain-length method used in the Dollar et a. (2009) study, but a different, much coarser-scale, landscape rugosity is used for the HEA. This must be clafifled.
	137	4	11	11-37	Para. 1	BSP/GCMP	Burdick	Shouldn't the Marino Resources Biological Assessment have been included in the DEIS? This should be included in the FEIS. This and other on-going studies that seem critically important for understanding the range of impacts associated with buildup scivities are not provided in the DEIS. Their absence is apparently a result of the compressed timeline, but instead of omitting this important information, it seems as though the time should instead be compromised.
	138	4	11	11-37	Para. 3	BSP/GCMP	Burdick	The Guam Dept. of Agriculture's Division of Aquatic and Wildiffe Resources has at least 20 years of aerial sea turtle survey data; it does not appear as though this data set was used in the DEIS, and instead the only see turtle observation data used was that collected as part of reef community surveys by Smith (2007). In this study, sea turtles were recorded if observed during the course benthic surveys, which did not focus specifically on sea turtles. In my experience, benthic surveyors miss much of what happens in the surrounding water column. It is also likely that the relatively turbid conditions within much of the Impact area limited observation of sea turtles in situ. Aerial surveys would provide a much more accurate estimate of sea turtle population within the Impact area. To our understanding, the Navy is aware that such data is available.

Page 30

when observed current velocities are > 1 ½ knots [2.5 ft/sec].

To determine the amount of material released into the water estimating the percent of the dredge material that is lost or released during the clamshell dredge process, 1% was selected as a representative, conservative bucket release rate for use in the modeling analysis. To bracket the range of possible conditions, 2% was selected as a possible worst case release rate. Analysis of the TSS monitoring data from the recent Alpha-Bravo dredging project indicated that the highest 10% of the TSS levels measured outside of the silt curtain were approximately 8 times greater than the typical TSS levels measured during the dredging. To simulate this worst case level of material release, and achieve an 8fold increase in material released outside the silt curtain, the material release rate was increased from 1% to 2% (see Section 5.4), and silt curtain effectiveness was decreased by a factor of 4. As discussed in the DEIS, there are several likely BMPs that will be employed for the proposed CVN wharf dredging and construction activities. The specific BMPs that will be implemented will be generated in discussions with the USACE during the CWA permitting process. Because this process has yet to occur, the Navy cannot commit to any specific BMPs in the FEIS.

J-015-068

Thank you for your comment. Volume 4, Section 4.2.2.2, addressing operations and nearshore water, contains an analysis of potential impacts from turbidity, siltation, shipboard waste, and spills. With implementation of the proposed upgrades, the existing wastewater collection system at Apra Harbor Naval Complex would be sufficient to handle the wastewater requirements of either a CVN 68 (Nimitz Class) or CVN 78 (Ford Class) aircraft carrier for a duration of 21 days. Proposed improvements to the wastewater system at Naval Base Guam would result in a minor beneficial impact to the treatment of wastewater and thus nearshore receiving waters. Available nutrient and bacteria data

		Vol	Chr	Pg	Line, Tbi. Fig	Org	Commenter (last name)	Commènt
J-01	139	4	11	11-38	Para. 1	BSP/GCMP	Burdick	The DEIS states that "the reef area in the aircraft carrier dredge footprint does not represent a unique or unusual habitat in comparison to the entire Apra Harbor reef complex" However, the in stu date collected by Doller et al. (2009) really don't provide the taxonomic resolution required to make such a claim, and can only differentiate between habitat types at the most broad taxonomic resolution (e.g., corat, algae, e.c.). Such a statement also does not take into account the large size of the impact area and how this may reduce the overall availability of preferred food sources to green and hawkstill surfle populations. Were adjast surveys actually conducted to assess the presence of preferred food species inside and outside the project area? If not, such a study should be conducted in order to adequately assess impacts to the preferred sea turtle food sources.
	140	4	11	11-38	Para. 1	BSP/GCMP	Burdick	According to the DEIS authors, the reef area in the aircraft carrier dredge (footprint does not contain an abundance of algal species that represent a major food source for sea furtiles that cannot be found elsewhere in Apra Hardor. See comment above regarding the lack of appropriate data in support of such a statement. In addition, there may be additional reasons why sea turtles observed in the vicinity of the impact area may prefer this area, such as ship avoidance or some other behavior. Aerial survey data collected by DAWR should by analyzed for patterns of sea turtle distribution within Apra Harbor. It is possible that sea turtles do indeed prefer the proposed impact area.
	141	4	11	11-45	Para. 4	BSP/GCMP	Burdick	Review Taylor Engineering, Inc. (TEI)(2009): compare selected statements with actual contents of report; reports and studies reviewed by TEI seem focused mainly on the resilience of non-coral benthic for and fauna in non-ref servironment; do not appear to address impacts to ref flora and fauna; especially concerned about impact coral-associated flora and fauna in indirect impact area where corals and other sessile organisms may be damaged or destroyed by exposure to high sediment loads

Page 31

were added to the FEIS.

J-015-069

Thank you for your comment. Habitat assessment methodologies, which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

J-015-070

Thank you for your comment. Habitat assessment methodologies, which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and

		Vol	Ch	Pg	Line, Tol. Fig	Örg	Commenter (last name)	Comment
J-01	142	4	11	11-47		BSP/GCMP	Burdick	dredging and the added aircraft carrier whalf armor fip rep and vertical pilings will provide heneficial long-term impact for the recruitment of marine fior and inventiorates is inaccurate, not supported by literature, and should be moveed. As supported by the results presented in Paulsy et al. (2002), the increase in artificial substrate will very likely provide new habitat for non-native species. Which tend to prefer artificial substrate in natural substrate already populated by native species. This habitat will be available to non-native, and potentially invasive, species already occurring within Apra Harbor, as well as for newly introduced species. This is does not provide a benefit, and instead will likely be detrimental to the long-term viability of the harbor's (and possibly Guama's) native coral red coopsystems. The potentially detrimental nature of this impact should be described. The stalement that the "development of the pier would provide suitable habitat for species such as benthic invertebrates including sponges, see urchins, startish, and mollulask, which are poorly represented within Inner Apra Harbor and the entrance channel areas" also does not take into account the preference of non-indigenous species for artificial substrate. These
	143	4	11	11-47		BSP/GCMP	Burdick	Last paragraph: This statement should be revised to reflect the above-stated concerns regarding the highly questionable benefits claimed for artificial reefs substrate, given our present understanding of the preference of non-native species for artificial substrate.
	144	4	11	11-49	Para. 3	BSP/GCMP	Burdick	3rd paragraph, 2nd and 3rd bulletpoints: It is not clear why the study was limited to reef area shallower than 60 ft when the impacts of dredging will extend to the harbor bottom. A preliminary spatial analysis indicates that approximately 25 acres of coral reef habitat that occurs at depths below 60 feet on the slopes of reefs planned for dredging. An additional 70 acres of deeper (>60 fit reef occur on the slopes of reefs within the arbitrary 200-m indirect impacts buffer. Personal observations indicate that some of this slope area is comprised of dense coral cover. For example, much of the reef slope down to a depth of at least 90 feet surrounding the shoals west of Jadie Shoals is characterized by profile coral growth. Coral growth diminishes significantly beyond this
	145	4	11	11-50	Para. 1	BSP/GCMP	Burdick	It is important to state here that the figure presented ("35% of the proposed dredge area contains some coral coverage and virtually all of the area consists of reefs that were dredged 60 years ago") only refers to reef area shallower than 60 feet. No data is available for reef areas deeper than 60 feet, so this figure does not accurately reflect the true extent of the reef area to be impacted by the CVN project. Also note comments below discussing the limits of the remote isonsing method to accurately assess coral coverage as well as comments regarding the importance of non-coral areas.

Page 32

new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

The time frame for recovery was estimated from similar dredging projects at other coral reef areas, which are described and cited in the FEIS.

J-015-071

Thank you for your comment. The Final EIS includes a discussion and analysis of potential impacts associated with the resuspension of nutrients and organics.

J-015-072

Thank you for your comment. All mitigation options associated with the proposed CVN transient wharf, including the use of artificial reefs and

	* 1	Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Comment
J-015	-084	4	11	11-50	Para. 3	BSP/GCMP	Burdick	It is not clear how the statement, "it can be stated with high certainty that the buffer zone is indeed very conservative" is substantiated in the cited reference, Dollar et al. (2009).
	147	4	11	11-50		BSP/GCMP	Burdick	Last paragraph: In the last sentence in this paragraph, the DEIS authors state "in addition, breakage of coral by the dredge that is not removed from the scafloor can also result in impacts to the reaf habitas that are bordering the dredge states." Such an effect is then termed a "potential indirect impact." This is contrary to the statement on (page #) that the coral fragments created and dispersed during dredging would provide an overall benefit. The latter statement is conflates the acute impacts of storm activity on certain coral species known to depend heavily on asexual reproduction with the long-term impacts of dredging, and is a misrepresentation of the literature.
	148	4	11	11-52	Para. 1	BSP/GCMP	Burdick	Confused about apparent discrepancy between 10% release rate cited here with use of 2% release rate as worst case scenario on page 11-53. This must be clarified.
	149	4	11	11-52	Para. 2	BSP/GCMP	Burdick	The reason for limiting sediment plume analysis to 24-hour period is not clear. Also need to take into account changes in sediment release rates as a result of changing depth - if depth of bottom of sit curtain is constant and depth of dredge area changes, more or less sediment would be released into the water column. How do the depths in the CVN dredge footprint compare to Alpha- Bravo and Klio Whart dredging project?
[150	4	11	11-52	Para. 2	BSP/GCMP	Burdick	Recommend inclusion of results from recent water quality and ecological survey data collected during the construction of the Kilo Wharf extension.
	151	4	11	11-52	Para, 2	BSP/GCMP	Burdick	DEIS states that "none of the plume extends past the dredged boundary near Big Blue Reef," but in the figure to which the statement refers (11.2-2) depicts the plume clearly extending to the west of the project boundary. This statement should be changed to reflect this.
	152	4	11	11-54		BSP/GCMP	Burdick	1st bulletjoint: The statement, "plumes near the bottom would be more extensive because most of the suspended sediment would be released into the bottom layer," underscores the necessity of assessing impacts to reef areas >50ft, which include areas along the slopes immediately adjacent to dredging areas and which have been reported to possess relatively high coral abundance.

Page 33

watershed restoration, are being considered by the Navy. When the Navy develops its proposed compensatory mitigation plan, mitigation options contained within the plan would be evaluated by the USACE to determine compliance with the Compensatory Mitigation Rule.

J-015-073

Thank you for your comments. The document has been reviewed and modified as appropriate based upon your comments.

- 1. The text has been revised and clarified to emphasize coral coverage location.
- 2. Text and Figure 11.2-2 has been revised and labeled correctly to show the extent of indirect impacts. The 200m "project study area" is not the indirect impact area as stated. However, as stated in the EIS and based on sediment transport modeling, an adverse indirect impact is anticipated out to 39 ft (12 m) from the outer dredge foot print. Indirect impacts (less than significant) are expected out to 144 ft (44 m). The shallow shoal areas are not expected to be impacted by either direct or indirect impacts.

J-015-074

Thank you for your comment.

Comment 1. Text in the FEIS does not indicate that the entire area was dredged, but rather explains that the area in general was dredged, and that dredging likely accounts for the present configuration of the live coral growth on the reefs today where dredging did take place.

With respect to reefs deeper than 60 feet, a 200 meter (m) indirect zone used in the DEIS was based upon discussions with resource agencies, which indicated that indirect impacts would be contained within the shallow reef area, which is approximately 200 meters from the outside edge of any dredging footprint. Subsequent to discussions with the

	1	Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Comment
J-015	153	4	11	11-54		BSP/GCMP	Burdick	2nd bulletpoint: What is the reason for using the 1% and 2% sediment release rates, with the 2% release rate used to simulate the maximum environmental adverse impact scenarios? Confused about provious reference to a 10% release rate (=00% retention rate) referend to on page 11-52. How does altering the silt curtain effectiveness (how is this measured?) by a factor of 4 affect the model results? Why was this value used? Is this explained in the full report? If so, this description must be included here.
	154	4	11	11-56	Para. 1	BSP/GCMP	Burdick	It is not dear how the currilative sediment deposition total was calculated, and the reason for the need to extrapolate as opposed to running the model across the duration of the dredgling activity (except that perhaps computational power was limited). Please clarify.
	155	4	11	11-56	Para. 2	BSP/GCMP	Burdick	2nd builelpoint: The DEIS makes reference to Brown et al. (1990), which suggests that relatively slow current speeds (<3cm/second) are often sufficient to remove the small aggregates from the tops and flanks of mound-shaped and branching corats. However, some of the coral species present within the impact area, including the most dominant coral species (Porites rus), cannot be characterized as being either mound-shaped or branching, so the appropriateness of this reference to the sultration within the impact area is limited. Porites rus, especially at greater depths, is composed primarily of horizontal plates, the surfaces of which are uneven, with concave areas that collect sediment and result in tissue loss (as mentioned in the 3rd buildpoint on page 11-69).
	156	4	11	11-56	Para. 2	BSP/GCMP	Burdick	3rd bulletpoint. The DEIS states that while the relatively steep reef slopes along the margin of the reefs targeted for dredging are among the areas of highest corel cover, "indirect impacts from suspended sediment would be miligated by downgradient flow with little accumulation on the steep reef face (MRC 2000c). Much of the coral cover on the steep reef slopes is comprised of Porties rus, which exhibits a plate growth form. This morphology provides for a larger surface area exposed to light. However, this morphology also readily accumulates sediment. The horizontal Porties rus plates, even on relatively steep reef slopes, will collect significant amounts of sediment. This section must be altered to reflect this point.
	157	4	11	11-57	Para. 1	BSP/GCMP	Burdick	The claim that dradging activity will result in the expansion of coral coverage should be removed entirely. This statement conflates the acute impacts of storm activity on certain coral species known to depend heavily on asexual reproduction with the long-term impacts of dredging, and is a misrepresentation of the titerature.

Page 34

resource agencies, modeling with appropriate best management practices has indicated that indirect impacts would be limited to 12 m to the outside edge of the dredging footprint; hence, the analysis provides for 188 m buffer area.

The Navy understands that this generalized zone of indirect impact is not refined sufficiently to address USACE concerns and have solicited the assistance of USACE Environmental Research and Design Center (ERDC). The refined level of indirect impacts associated with the dredging activities based upon additional analysis is anticipated to be greatly reduced.

Comment 2. Habitat assessment methodologies, which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	158	4	11	11-57	Lest pera.	BSP/GCMP	Burdick	proposed aircraft carrier project are not expected to exceed the "normal" conditions observed over several days in the Inner Agra Harbor Channel, "and goes on to state that "there are defined water quality differences (i.e., furbidity and project and the state of the proposed several days in the project of the state of the st
	159	4	11	11-57		BSP/GCMP	Burdick	In general, this section appears to consistently underestimate the indirect impacts of dredging. As John McManus, one of the peer reviewers pointed out, "Coral communities tund to develop to the intrilis of environmental perturbation and stress characteristics of a particular site. Additional loading of ediments can easily overwhelm the sediment removal mechanisms of the existing corats, especially in places which are somewhat shielded from strong current flow. Thus, in our study of sediment impacts associated with mining in the central Philippines, the massive Porities colonies and other corats were forced to release large amounts of mucous to remove the unusually high loads of sadiment. The currents were not strong enough to remove this heavy mass of sediment-laden mucous, and nearly all corats in the impacted area basicilly 'smothered' to death. That area had been similarly inhabited by medicartely sediment-tolorant corats. "The analysis of indirect impacts to corat neaf resources should be presented in a more objective manner, and should consider the input of expert input such as that from Dr. McManus

Page 35

under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

With respect to in situ surveys, the Navy coral surveys were conducted in-situ at the sites of the proposed project area. As noted previously, the Navy has used a scientifically recognized and defensible survey methodology. Further, the analysis was performed by recognized experts

from the University of Hawaii and the National Coral Reef Institute.

J-015-075

Thank you for your comments.

Comment 1. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be

J

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter- (last name)	Comment
J-015	160	4	11	11-58	Para. 1	BSP/GCMP	Burdick	The conclusion that coral recruitment is limited by the availability of hardbottom, and not by suspended aediment tevels, is completely unsubstanslated. The limited coral recruitment rates observed on Guam over the last couple decades (see work by National Park Service at Asan and Birkeland's work at Luminae and other sites) are likely limited by farval supply, and also by pre-and post-settlement factors. More recent literature should be discussed here. In addition, the presence of coral cose not necessarily mean the reefs are healthy. This is one of the main reasons why size frequency data is much more heavily relied upon than percent coral cover in ecological assessments and monitoring.
J	161	4	11	11-58	Para. 2	BSP/GCMP	Burdick	DEIS states that "the area of potential effects comprises a relatively small fraction of the total five red area mapped in Apra Harbor," but does not specify what fraction of area this represents. This statement appears to be entirely unsubstantiated, yet is the basis for many claims of less than significent impacts to various resources. Recommend including this value, and let readers decided if it is a significent fraction of the harbor or not.
	162	4	11	11-58	Para. 2	BSP/GCMP	Burdick	In a significant change to the existing EFH condition in Apra Harbor and would also not likely result in discreased reproductive potential (i.e., coral spawning) of the Apra Harbor refe community as a whole." However, this statement relies on the assumption that the communities of coral reaf organisms are the same or similar across the entire harbor. This is not the case, as different parts of the harbor host different assemblages, depending on a variety of factors (depth, proximity to anthropogenic impacts, water quality, hydrographic regime, etc.). Also, none of the surveys conducted by the resource agencies as part of the methods comparison study (Appendix J) suggest that coral species not previously recorded anywhere on Guann (in Apra Harbor or beyond) occur within the impact area. The faxonomic resolution of the resource agency surveys allows an accurate comparison between reef communities. It would be necessary to conduct surveys using this or a similar method with the same level of toxonomic resultion across the harbor to properly evaluate the assumption that the impact area does not possess unique EFH, or that if if the area

Page 36

updated to reflect the latest developments in this review.

Comment 2. Chapter 11 of both Volumes 2 and 4 provide detailed information on CWA permit requirements and the need to fully comply with these requirements.

Comment 3. Text was modified in the FEIS to reflect the correct statement from the Viehman et al. reference.

Comment 4. Addressed for following comment.

J-015-076

Thank you for your comment. The FEIS has been clarified.

Because of the incompatibility of the methodology used by the resource agencies in comparison to the Navy, and the resulting differences in data coupled with differences in areas studied, the comparative analysis conducted by the resource agencies was of little relevant value in assessing the environmental impacts of dredging on coral resources.

J-015-077

Thank you for your comment.

Comments 1 and 2. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an

		Vol	Ch	Pg	Line, Ibl, Fig	Org	Commenter (last name)	Comment
J-015	- 088 163	4	11	11-58	Last para.	BSP/GCMP	Burdick	Last paragraph: The statement that "based on the most environmentally adverse scenario model run, none of the projected contours of sediment deposition extend to the large patich reefs characterized as benthic communities with high orai coverage" appears to be incorrect, as associated figures depict contours extended to some of the shallow shoels. Also, see comment above on inadequacy of coral cover to value coral reef ecosystem function
	164	4	unique species; atmost two thirds (63%) of the area to be di than 30%, the project area is previously delutred, having b "unhealthy," the coral in the project is sediment-laden and n further away from the channel (Dollar 2009). "With regard to previous comments, data collected by the Navy consultants categorical claim that no unique species occur in the affects the individuals conducting the surveys possessed the requir flora and founa to make such a statement. The deloction of resource agency surveys that appear to be seles not prev least, suggest that such a comment not be made until adeq provided to the Navy consultant several months.	unique species; almost two thirds (63%) of the area to be dredged contains coral coverage of less than 30%, the project area is proviously desturbed, having been dredged in 1045, and although not "unhealthy," the coral in the project is sediment-laden and not as healthy as coral at the shoal area further away from the channel (Dollar 2008). With regard to unique species, as is mentioned in previous comments, data collected by the Navy consultants is not adecuate to make the categorical claim that no unique species occur in the affected area. It does not appear as though the individuals conducting the surveys possessessed the required knowledge of Apra Harbor's marine flora and fauna to make such a statement. The detection of several coral species during the resource agency surveys that appear to be species not previously reported from Guarn, at the very least, suggest that such a comment not be made until adequate data be collected. This data was provided to the Navy consultant several months prior to the release of the DEIS, along with the rost of the data collected during the field work for the comparison study carried out by the resource agencies. Even if a given species is not "visuigue" to the affected dare, the presence of a species				
	165	4	11	11-59	Para. 1	BSP/GCMP	Burdick	It is not clear why sedimentation rates of 1000 and 40 mg/cm2 1/4 in (6 mm) are focused upon so heavily. Please clarify the use of those values.
	166	4	11	11-59	Para. 2	BSP/GCMP	Burdick	In the second sentence of this paragraph, it is stated that "the area of coral within the indirect impact area that is shallower than 60 ft is assumed to be temporarily lost due to indirect dedging impacts" However, there is no consideration of impacts to reef communities below 60ft, which would certainly be impacted by sediment, and possibly by larger dobris, released during dredging.
	167	4	11	11-59	Para. 3	BSP/GCMP	Burdick	The assumption that indirect impacts from Alternative 1 would be "short-form and localized, and that recovery would be expected within five years" is not adequately supported. Indeed, the sum of many of these comments strongly suggests otherwise. Recommend altering this statement to reflect this.

Page 37

historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

J-015-078

Thank you for your comments.

Comment 1. Text modified as appropriate in FEIS.

Comment 2. The information provided for disturbances to coral from sediment is included to demonstrate the response of corals to suspended sediments, regardless of the source. Text in the FEIS differentiates between potential impacts from dredging and those from shorter term and/or natural disturbances (such as typhoons).

Comment 3. Volume 9, Appendix E includes a more detailed description of the use of the Normalized Difference Vegetation Index. Please refer to this appendix.

J-015-079

Thank you for your comments.

Comment 1. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems,

		- Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Comment
J-015	168	4	11	11-59	Last para.	BSP/GCMP	Burdick	Here the DEIS authors state that "implementation and enforcement of appropriate BMPs and potential miligation measures would reduce the effects of dredging, possibly from adverse to no adverse impacts." However, BMPs are not described in sufficient detail (find other references to BMPs, Committeents to certain BMPs and an analysis of their effectiveness must be made in the DEIS and espocially in the RO.
	169	4	11	11-59	Last para.	BSP/GCMP	Burdick	The final sentence in this paragraph states that "no adverse effects to EFH are expected from indirect impacts of sedimentation to ocal habitat and other ben'this habitat with appropriate implementation of dredging BMPs and potential mitigation measures. However, without detailing the BMPs and mitigation measures, including evaluating the effectiveness of each, such a statement remains unsupported. In addition, this statement appears to be in contrast to information provided in the previous paragraphs.
7	170	4	11	11-62	Para. 1	BSP/GCMP	Burdick	ito be extremely rare (Navy 2006c) and seasonal high concentrations of adult bigeys scald, may also be temporarily disturbed by increased vessel traffic and dredging activities." However, the tack of data regarding the scalloped hammerhead data, and especially the heavy refiance on a single, unsubstantiated personal communication, does not mean that their occurrence is rare. Indeed, it appears as though the authors have made a serious error in centilating "spawing" with "pupping". Apparently very little effort has been made to document the scalloped harmmerhead pupping activity, and the result is that all know about is the result of a personal observations (mainly, the catch of young individuals within the area on a seasonal basis). In addition, the impact on these PHCRT species by vessel traffic and dredging activities should not be limited to concorns about collisions between vessels and adult fish or impacts to EFH. Disruption to movement and behavior of these species should also be discussed. Such impacts would be of particular concern for the scalloped hammerheads, which may be especially susceptible to disruptions in behavior during spawning activities.

Page 38

are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

The size frequency analysis was removed from the FEIS.

Comment 2. The reference to other studies is sufficient for comparisons with the proposed actions.

Comment 3. The reference to other studies is sufficient for comparisons with the proposed actions. The study areas are not portrayed as being identical.

J-015-080

Thank you for your comment.

		Vol	Ch	Pg	Line, 161 Fig	Org	Commenter (last name)	Comment
J-015-09		4	11	11-62	Para. 3	BSP/GCMP	Burdick	Here the DEIS states that the presence of back fit and pilings installed during wharf construction would add benthic habitat suitable for colonization by sessile organisms. Indeed, these structures would be colonized by a variety of sessile organisms and would be hinabited by associated fishes and invertebrates, but these communities are distinct from natural reaf communities and should be considered beneficial. This is especially true when considering that artificial reaf habitat (especially marves and other structures near heavy ship traffic) is known to host disproportionately high number of non-native species (Dite Gustav). Instead these structures schould be considered detrimental, as they provide havens for non-native species that have the potential to become invasive and thus threatening native need communities. This threat is acknowledged in the "Non-Neither Species" section on page 11-50.
17	72	4	11	11-62	Last para.	BSP/GCMP	Burdick	Last paragraph: See comment above regarding the claimed benefits of the installation of artificial structures. This statement should be removed entirely or aftered.
17	73	4	11	11-64	Para. 2	BSP/GCMP	Burdick	Last bulletpoint: See comment above regarding the claimed benefits of the installation of artificial structures. This statement should be removed entirely or altered.
17	4	4	11	11-64	Para. 3	BSP/GCMP	Burdick	BMPs are not described in sufficient detail (find other references to BMPs) to make such a statement. Commitments to certain BMPs and an analysis of their effectiveness must be made in the DEIS and especially in the ROD. Recommend removal of this statement unless BMPs are described in detail. See comment above.
17	75	4	11	11-67	Para. 2	BSP/GCMP	Burdick	The second senionce in this paragraph prosents a misreading of the cited paper (Peulay et al. 2002). The 5500 species noted in the Paulay et al. paper include all known native and non-native reef-associated species on Guam. Paulay et al. (2002) report numerous non-native species, the imaginity of which were restricted to Apra Harbor. This change must be reflected in the FEIS.

Page 39

Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

J-015-081

Thank you for your comment.

Comment 1.

The referenced size frequency analysis was removed from the FEIS.

Comment 2.

		Val	Ch	Pg	Line, Ibl. Fig	Org	Commenter (last name)	Comment
J-01	5- 091 176	4	11	11-67	Para. 3	BSP/GCMP	Bundick	Instead of arriving at the more sensible, logical, and scientifically-defensible conclusion that the presence of non-native species pose a very real threat to native reef communities (as described just a few sentences earlier in the DEIS), the authors state that the recruitment of some non-native species from the inner herbor area to the new alroaft carrier wharf pillings may "enhance the community assemblage and diversity of the area." While diversity may increase in the short-term with the recruitment of non-native species, it is Statements such as this are misleading. This statement should be removed and instead the dottimental effects of non-native species should be included in the analysis. This statement is an example of the consistent bias towards undercestimating the impacts associated with the CVN Berthing project, and even goes so far as to claim benefits of activities that are actually defirmental.
	177	4	11	11-67	Para. 6	BSP/GCMP	Burdick	Invertebrates as a result of CVN operations. While it is ucknowledged that increased vessel traffic may disturb organisms living in the upper water column or in or on the sediments due to propeller wash and resuspension of sediments, and that the impacts to marine flora and invertebrates would be long-lerm, the impacts are minimized and considered episodic and minor, considering the existing condition. However, no evidence is provided to support this claim. Observations of overturned, damaged sponges, other reef organisms (see comment X for discussion of impacts or corral) suggests that the propeller wash of large ships have very real, long-term impacts on the marine flora and invertebrates. It is not clear what types of ships cause this type of damage, but it is likely that the massive aircraft carrisor brought his the harbor by the Navy are responsible for at least some of the clamage. An increase in vessel traffic associated with the buildup (not lyst CVN traffic) will certainly increase the level of impact to marine flora and fauna. While marine flora would likely be more resilient to such impacts, slower-growing invertebrates, such as sponges, would be more vulnerable. In addition, own episodic impacts have the potential to after the reef
	178	4	11	11-67	Last para.	BSP/GCMP	Burdick	Last paragraph: The first sentence of the last paragraph on page 11-67 states that "there would be long-term, localized, and mitigation for indirect operational impacts? Please darify.

Page 40

The sentence in the FEIS refers to the Dollar (2009) reference when describing rugosity results.

Comment 3.

The FEIS has been updated to include information from the requested references.

Comment 4.

The FEIS indicates that a cooperative effort between the Navy and resource agencies is ongoing for monitoring sea turtle nesting activity.

J-015-082

Thank you for your comment.

Comments 1 and 2.

Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems

		Vol	Ch	Ρġ	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-01!	5 -092	4	11	11-67	Last para.	BSP/GCMP	Burdick	Last paragraph: This paragraph states that "tugboats would disturb bottom sediments that could potentially be deposited on corrals in and near the turning basin, including Big Blue Reeff but goes on to minimize these impacts by clarining that because the majority of sediment grab samples and cores consisted of relatively large-grained (wnot att) material, the extent and duration of impact of resuspended materials would be minimized. This paragraph also refers to an earlier section of the DEIS that cities research suggesting that corals exposed to sandy, nutrient-poor sediments experience fundamentally different outcomes than those exposed to salt-sized sediments rich in organic matter and nutrients. However, both of these points do not discuss the disproportionate impact of silt on corals and other marine organisms, even when it comprises only 10% or 17% of bottom sediments. This issue is addressed in other comments.
	180	4	11	11-68	Para. 2	BSP/GCMP	Burdick	The last sentence in this paragraph states that "the indeed impacts of ship traffic within the proposed aircraft carrier channel on nearby coral shoals would be comparable to existing impacts for current ship traffic, which are minor and short-term." No evidence is cited to support the claim that current impacts are minor and short-term. Aneodotel evidence suggests that the coral reef communities on the perightery of ship navigational channels are indeed impacted by the direct physical impact of propeller wash (in the form of overturned sponges, corals, etc.) and possibly by the indirect impacts of sediment resuspension. Recommend collection of data in an attempt to quantify this impact; possibly incorporate sampling design aimed at answering this question into large impact assessment, which should be re-done (see other comments).
	181	4	11	11-68	Last para.	BSP/GCMP	Burdick	Here the DEIS authors appear to suggest that any indirect impacts to EFH as a result of CVN operations would be offset by the long-term benefits conferred by the additional habitat provided in the form of the aircraft carrier wharf vertical plrings and rip rap. In no way should artificial reef structure be considered an appropriate offset of impacts to natural reef communities. This is lespecially true in Apra Harbor, where artificial substrates appear to be preferred by non-native species, and thus contribute to an elevated risk of impact of marine invasive species to natural reef communities.

Page 41

impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

As stated in the FEIS, algal surveys were not conducted. Smith (2007) was cited and this study included documentation of algae in the project area.

Comment 3.

The TEI (2009) study is cited in the FEIS.

J-015-083

Thank you for your comment.

Comments 1 and 2. Although some non-native or invasive species are known to use artificial substrates, there is no evidence that an artificial structure would become inundated with non-native or invasive species. The artificial substrate would be equally available for all species occurring in Apra Harbor, whether native or non-native. A Micronesian Biosecurity Plan will be funded and prepared by DoD to address the issue of non-native species.

Comments 3 and 4. The 200 meter indirect zone used in the DEIS was based upon discussions with resource agencies, which indicated that indirect impacts would be contained within the shallow reef area, which is approximately 200 meters from the outside edge of any dredging

3

1700000		Vol	Ċh	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
-015	- 093	4	11	11-69	Para. 1	BSP/GCMP	Burdick	Again, the DEIS authors acknowledge potential impacts to fish within the Apra Harbor channel and associated nearby shoals and nurserines (Sasa Bay) by increased aircraft carrier and MEU combarkation and commercial ship movements through underwater noise or physical disturbances and resuspension of sediments from proposed dredging or propeter wash, but appear to claim that these impacts would be distort by the additional recruitment potential of juvenile firfish from Sasa Bay to the aircraft carrier wharf. No evidence is provided to support the claim that juvenile firfish rom Sasa Bay or other nearby nursery areas would recruit to these structures. Furthermore, as stated in the above comment, the installation of artificial structures should in no way be considered mitigation for impacts to natural reef communities. This is especially frue in Apra Harbor, where lartificial substrates appear to be preferred by non-native species, and thus contribute to an elevated risk of impact of marine invasive species to natural reef communities.
	183	4	11	11-69	Para. 2	BSP/GCMP	Burdick	The claim that "the deeper channel resulting from dredging activities would cause decreased turbidity during ourrent operations and would offset the potential increase in turbidity from carrier operations" completely unsubstantiated. Please remove or provide appropriate support for such a statement.
	184	4	11	11-69	Para. 4	BSP/GCMP	Burdick	The DEIS authors conclude that there would be no adverse effects to EFH from operation, and that Allemative 1 would result in less than significant impacts to EFH from standard Nary operating procedures and BMPs to protect marine resources. It is not clear how such a conclusion is reached when a list of long-term impacts is provided immediately preceding this statement. Recommend changing this section to reflect information provided in comments above pertaining to EFH impacts.
	185	4	11	11-73	Para. 1	BSP/GCMP	Burdick	The Regional Biosecurity Plan and the associated analysis of marine biosecurity risks will contain information critical for assessing the potential risk of impacts from marine invasive species. This information should be included for review prior to the release of the FEI.

Page 42

footprint. Subsequent to discussions with the resource agencies, modeling with appropriate best management practices has indicated that indirect impacts would be limited to 12 m to the outside edge of the dredging footprint; hence, the analysis provides for 188 m buffer area.

The Navy understands that this generalized zone of indirect impact is not refined sufficiently to address USACE concerns and have solicited the assistance of USACE Environmental Research and Design Center (ERDC). The refined level of indirect impacts associated with the dredging activities based upon additional analysis is anticipated to be greatly reduced. Observations of sedimentation from Kilo Wharf are inapplicable to proposed dredging for the transient CVN pier because of its location further inside Apra Harbor and its associated reduced wave action. Implementation of BMPs would sufficiently reduce indirect impacts associated with sedimentation.

J-015-084

Thank you for your comment.

Comments 1 and 2. The document has been reviewed and modified as appropriate based upon your comments.

Comment 3. The 1-2% sediment release rate would result in a worst case scenario of 10% TSS measurements outside the silt curtain, which is why 10% was included in the description of the worst case scenario. This is described in the FEIS.

Comments 4-6. The document has been reviewed and modified as appropriate based upon your comment.

Comment 5. Observations of sedimentation from Kilo Wharf are inapplicable to proposed dredging for the transient CVN pier because of its location further inside Apra Harbor and its associated reduced wave

		Val	Çh	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-01	5- 094 186	4	11	11-73	Last para.	BSP/GCMP	Burdick	Ist bulletpoint: The two dredging/filling restrictions during ooral spawning periods call for different levels of protection, with the first calling for cessation of dredging operations during the period of peak coral spawning in July in consultation with the Guern DAVIP and the second point calls for the prohibition of dredging or filling of tidal waters during hard coral spawning periods, usually around the full moons of June, July, and August. Based on the requirements adopted by the CNMI DEC based on the recommendations of the Tester Houlx, we recommend the adoption of a revised version of the second proposed action. See comment above for more information regarding the prohibition of dredging operations around the period of coral spawning.
ĺ	187	4	11	11-73	Last para.	BSP/GCMP	Burdick -	Guam Department of Water Resources (GDAWR) should be "Guam Department of Agriculture - Division of Aquatic and Wildlife Resources)
	188	4	11	11-75	Lest para.	BSP/GCMP	Burdick	address the concorns of the resource agencies (federal and local - should mention local resource agencies, as corpressed in earlier discussions and comments and in a letter from the Governor of Guam). The resource agencies have consistently advocated for the use of corat colony density and size class data as more appropriate HEA inputs, and do not support the use of coral percent cover alone. While the use of registly is, in theory, more informative than percent coral cover alone, there are a number of reasons why colony density and size class data are more robust HEA inputs and why the type of rugostly data used in the DEIS is not appropriate. Rugostly, as used in the HEA calculations, is a coarse-scale, indiscape rugosity derived from batthymetric data. This type of rugostly, is not really what most ecologists consider rugosity, which is a measure of lopographic complexity at the scale of local sites (and as influenced by the shape conferred to the reef by coral colonies and other topographic features). Instead, the "rugosity used here is actually just a measure of the slope of the reef and does not capture the local-scale topographic complexity that is known to influence, or be associated with, varyous local ecological characteristics and

Page 43

action. Implementation of BMPs would sufficiently reduce indirect impacts associated with sedimentation.

Comment 6. The document has been reviewed and modified as appropriate based upon your comment.

Comment 7. The 200 meter (m) indirect zone used in the DEIS was based upon discussions with resource agencies, which indicated that indirect impacts would be contained within the shallow reef area, which is approximately 200 meters from the outside edge of any dredging footprint. Subsequent to discussions with the resource agencies, modeling with appropriate best management practices has indicated that indirect impacts would be limited to 12 m to the outside edge of the dredging footprint; hence, the analysis provides for 188 m buffer area.

The Navy understands that this generalized zone of indirect impact is not refined sufficiently to address USACE concerns and have solicited the assistance of USACE Environmental Research and Design Center (ERDC). The refined level of indirect impacts associated with the dredging activities based upon additional analysis is anticipated to be greatly reduced.

J-015-085

Thank you for your comment.

Comment 1. The combined use of 2% actual release rate and a less effective silt curtain retention results in the total 10% release rate referred to. Silt curtain effectiveness can be measured, so the effectiveness value was increased to use a more conservative estimate of sediment release amounts.

		Vol	Ch	Pg	Line, Tol. Fig	Org	Commenter (last name)	Comment
J-015-	189	4	11	11-77	Para. 2	BSP/GCMP	Burdick -	2nd bulletpoint: The coral habitat index is essentially a more complex version of the "100% coral cover equivalent" method, the validity of which had been rejected by the resource agencies because it is based on the assumption that the only valuable reef is that with 100% coral cover. Such an assumption does not take into account the variable nature of even pristine coral reefs, which can have varying amounts of coral cover and are also often comprised of coraline signe, fleshy algae, sponges, and other benthic organisms. The coral habitat index appears to assign an index value to each pixel based on a variety of factors, including percent coral cover. Pixels with lower percent coral cover values will be assigned lower coral habitat index values. When these values are used as inputs into the HEA, the result is that compensatory mitigation is not appropriately scaled.
	190	4	11	11-77	Para. 4	BSP/GCMP	Burdick	The use of three-dimensional area value, as presented here, is preferred over 2D estimates, as it more accurately estimates the actual surface area of reef habitat. However, reef habitat with no coral coverage should not be excluded from consideration, as some of this area may be comprised of hard-bottom habitat that provides ecological functions and which is also potential habitat for coral recruitment.
	191	4	11	11-78	Para. 5	BSP/GCMP	Burdick	The shape of the recovery curve, the period over which losses are calculated, expected project timing and an appropriate discount rate? is critical information for understanding how the HEA was carried out and appears to be missing (but recognize that it is presented in the relevant appendix). This should be included in the main body of the FEIS.

Page 44

Comment 2. The total value was calculated by including the various model parameters (area to be dredged, thickness of sediment to be dredged, dredging rates, etc.). Extrapolation was used to calculate totals for the dredging duration based on data from one day.

Comment 3. The Brown et al. reference is still valid for some species occurring in the dredge area.

Comment 4. Text modified to indicate the potential for sediment accumulation based on the morphology of *Porites rus*.

Comment 5. The statement the commenter is referring to clearly points out that the comparison is to storm-induced expansion of corals. The analysis is comparing the fragmentation caused by dredging to that caused by storm events; whether anthropogenic or a natural phenomenon, it is possible that the end results would be similar.

J-015-086

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

1. A sediment plume is an inevitable effect of in-water construction activities that the Navy proposes to minimize by using best management practices (BMPs) such as silt curtains and operational controls of dredging equipment. These practices and mitigation measures will be determined and agreed upon during the U.S. Army Corps of Engineers (USACE) permit phase of the projects. The dredging plume models that were run for the Draft EIS, were based on silt curtain sediment retention of 90% that were observed at other dredging operations in Inner Apra Harbor. Additionally, the Navy will be performing in-water monitoring. Operations will cease if water quality exceeds predetermined levels, and continue when water quality has returned to ambient conditions and the silt curtain modifications have been made.

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Commen
J-015	192	4	11	11-78		BSP/GCMP	Burdick	It is critical that the most recent references documenting the current rates of coral recruitment on Guam be incorporated into the impact analysis and the HEA. It appears as though the most recent reference regarding coral recruitment rates on Guam is to a study from the 1980s that looked at reef recovery following a catastrophic Acanthaster outbreak. These data are nearly 30 years old. Since then, the work of Chuck Birkeland, the National Park Service, and others have shown a 1-t2 crider of magnitude decline in recruitment rates. This has large implications for the recovery potential of damaged reef or in the development of coral communities at mitigation sites. There is also the larger issue of assuming uniformity among recovery rates between the past, the present, and the future, with no consideration of cumulative impacts such as climate change and local anthropogenic stressors. If it is to late to assess coral recruitment rates (in consideration of recovery rates for compensatory mitigation projects), should consider use of more recent studies of coral recruitment in assessing recovery rate – even then, coral recruitment in Apart Harbor may be substantially different (higher or lover, not sure) when compend to the study areas.
	193	4	11	11-80	11.2-9	BSP/GCMP	Burdick	linear recovery rate is utilized for HEA purposes" is the exactlywh y coral size frequency data was requested.
	194	4	11	11-81	Para. 2	BSP/GCMP	Burdick	The DEIS states that "although the HEA assumes permanent loss of habitat due to dredging, in reality there would be coral re-growth that would provide minor functions/services in the dredged areas. This could offset losses of habitat on which artificial reefs are placed." These statements contradict statements made on page 11-78, "areas directly impacted by dredging are considered permanently injured, and therefore experience a 100% loss in ecological services in perpetuity (i.e., no recovery). Any recovery would be lost during future maintenance." Recommend removing the statement on page 11-81.

Page 45

2. The EIS indirect impact analysis was based on sediment transport modeling. The modeling identified adverse conditions (>6mm cumulative deposition) up to 40 ft. (12 m) from the dredge foot print. The USACE ERCA will be running its own model for comparison and information from this effort will be incorporated post ROD into the compensatory mitigation plan.

J-015-087

Thank you for your comment.

- 1. Text has been revised as appropriate regarding hardbottom as sole limitation associated with coral recruitment within Apra Harbor. Please see added references, including a paper discussing overall viewpoints of the theoretical and practical considerations of the use of measures of size-frequencies of coral populations vs. benthic coral cover as a more suitable method to assess the function and structure of reef ecosystems. A summary has been included in Volume 1, Volume 4, and the full paper can be found in Volume 9, Appendix J.
- 2. Text modified to include approximate percent area of coral to be impacted.
- 3. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	195	4	11	11-83	Para. 3	BSP/GCMP	Burdick	compensatory mitigation method, despite the repeated objections by regulatory agencies. We feel that this type of mitigation is not appropriate compensation for the reef system that will be lost or compromised. The scientific literature, taken as a whole, does not appear to support the use of compromised. The scientific literature, taken as a whole, does not appear to support the use of scriticial reafs to replace lost reef ecosystem function and instanct casts doubt on the rationale for using artificial reaf structures as potential mitigation for the destruction of a natural reaf system, particularly when such artificial reafs structures would be in dose proximity to natural reaf systems. Several prominent authors have also expressed their doubts about the ability of artificial reafs to minic natural reaf systems. For instance, the International Coral Reaf Inflative (ICRI) put forth a Resolution on Artificial Coral Reaf Restoration and Rehabilitation in 2005, in which the signatories of the resolution, including Gregor Hodgson, Clive Walkinson, and Richard Kenchington, agreed that artificial systems cannot replace a natural oroal reaf and do not function as effectively as a living reaf. We believe that the scare resources available for natural resource management be used to reduce threats to natural systems instead of deploying artificial reaf structures, especially
	196	4	11	11-85	Para. 5	BSP/GCMP	Burdick	According to the DEIS, as described in this paragraph, the Cettl Bay watershed restoration project was not successful brocuses land use was not lotally controlled and management agreements could not be concluded. While the project has un into management issues, it is far to early to claim that the project failed. Even if the project fails, this should not proclude the implementation of other watershed restoration projects. It ends means that at different approach may be warranted.
	197	4	11	11-90	Para. 2	BSP/GCMP	Burdick	Should implement coral translocation as BMP, especially for rare species, but it should be not considered compensatory mitigation because of the often poor long-term success rates of translocation projects.
	198	4	11	11-92	Para, 2	BSP/GCMP	Burdick	Dredging acreages different than on page 11-50. Please clarify.

Page 46

approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

J-015-088

Thank you for your comment. 1. The Figure and text has been revised accordingly. The 200 m area is the coral study boundary. Indirect effects are expected out to 144 ft (44 m) and adverse effects out to 40 ft (12 m) based on sediment modeling. USACE is running their own model which will be compared with the Navys. Results will be incorporated post ROD into the compensatory mitigation plan.

2. The "spring surveys," and comparative surveys, prepared for the DEIS covered areas beyond the impact area, so even if these species were present, which has not been justified by any data, it is not clear that they occur in the dredge footprint and would be affected by the dredging. As pointed out in the discussion of all reports discussing indirect effects, it is clear that the study area is routinely subjected to high levels of sediment stress, and hence all inhabitants must be pre-adapted to such conditions. Thus, if these "rare" species occur outside of the direct impact zone, it is not likely that they would be permanently eliminated from the area. Hence, without further work to elucidate the actual presence and exact location of the undocumented rare species, these comments are not relevant. Additionally, unless these coral (or other

		Vol	Cn	Pg	Linu, Tbl, Fig	Org	Commenter (last name)	Commen
J-01	199	4	11	11-99	Para. 6	BSP/GCMP	Burdick	larea are of marginal to modest ecological value, based upon eight criteria* Many of the indicators provided here appear to rely on faulty date, and do not reflect the true value of the reef communities within the project area. For example, while it is agreed that a substantial portion of the project area is dominated by Porties rus, P. cylindrica, and other Porties spp. (not necessarily a bad thing) it is also important to note that the phote quadrat method employed by the Navy consultant significantly underestimated the number of colonies of more cryptic taxa (e.g., Leptoseris increasters, Styloconcilleal armata, S. guntheri, Montpora spp., Aprahasters spp., Astreopora spp., Cylhastrea spp., Favis spp., Leptastrea spp. Tubastrea spp., etc.) by limiting the analysis to a planar view and preventing a detailed examination of the entire 3-7 bred surface. The results of the comparison study (Appendix J) provide a detailed explanation - and quantitication - of this underestimation. Species counts arrived at through the work of Snitth (2007) also appear to be quile flow compared to that observed in the resource agency comparison study, and may be a result of a limited methodology of initied texnonic expertise. While not presented in the
	200	4	11	11-105	Para. 2	BSP/GCMP	Burdick	marine species. This is a completely unsubstantiated statement, especially considering the apparently limited taxoxonic expertise of the Navy consultants, Indeed, it appears as though the opposite is true. During coral reof surveys carried cut by government and UOG Marine Lab blologists last spring found several corals, sponges, and possibly other marine organisms that spocer to have not yet been found elsewhere in Apra Harbor. In addition, such a statement does not take into account the presence of rare species in the impact area, while these species may cour elsewhere in the harbor, their populations may be significantly impacted by the drodging activity because there are so few of them anywhere in the harbor. In addition, this statement does not take the account. Recommand consulting with local experts regarding this matter, and also recommend that a study on the distribution of rare cortals, sponges, and other marine taxa throughout the harbor. This section, and sections containing similar statements, must be revised accordingly. Also recommend reviewing the Navy-funded work carried out by Paulay et al. (1997), which designates the vicinity of the impact area as a distinct physiographic biological zone within.

Page 47

invertebrate) species have been identified as a legally recognized special status species, they are afforded no additional level of protection or consideration than other coral (or invertebrate) species in that area. Further, habitat assessment methodologies, which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

J-015-089

Thank you for your comment. The DoD is committed to performing its mission in an environmentally responsible manner with minimal damage to sensitive ecosystems and marine resources.

1. Best management practices (BMPs) and mitigation measures will

		Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Chanien .
J-015	201	4	71	11-105	Para. 3	BSP/GCMP	Burdick	that "it is anticipated that associated coral communities (should be coral-essociated biological communities") (i.e., marins flores, invertabrates, fish, etc.) would repopulate or move back into the areas after in-water dredging activities cause." While it is acknowledged that "some mortality may been in site-attached species (e.g., damselfishes) that have lost their habitat," these statements burderestimate the impacts to associated biological communities. The removal of EFH within the diredge footprint and the indirect impacts to nearby EFH will certainly impact lish and other communities. The remaining nubble and accumulated soft-sediment will only accommodate certain reaf organisms, and certainly will not be inhabited by the full sults of reef organisms that currently cour in these oreas. Previous statements in the DEIS indicates that the hubblat lossees within the diredge footprint will effectively be lost in perpetuly, with maintenance dredging removing regrowth on a regular basis. These statements also on to take into account the effect of the lost of signatached species on other trophic groups (e.g., reduction in predetor populations and release of preys).
J-01	-100	4	2	21	2.3.4.3	BSP/GCMP	BSP/GCMP	weren't concrete caissons used at Kilo Wharf, and didn't they have a problem there which led to unanticipated destruction of corals?
	203	4	2	23	2.3.5.1	BSP/GCMP	BSP/GCMP	the language here is confusing: "Mechanical dredging is assessed as the environmentally conservative method (maximum adverse impact) of dredging" Max. impact would not appear to be the environmental conservative choice! If mechanical has the greatest adverse impact, then invidrabilic dredging should be the method of choice.
	204	4	2			BSP/GCMP	BSP/GCMP	It is not only imperative to sample and analyze sediment samples where the dredging is proposed, but it is important to understand the impact the new berhings will have on the environment and therefore sediment samples at Kio Whart should also be analyzed in order to plan for and miligate for the negative environmental impacts that would follow the creation of new carrier berthing facilities.
J-01	-101	4	2			BSP/GCMP	BSP/GCMP	Is it possible for biologists to remove significant corals/prime corals from the dredge area and move them and place (cament) them next to or onto other healthy reefs?
J-01	206 - 102	4	4	4	para. 4	BSP/GCMP	BSP/GCMP	docking activities also impact near shore waters through flaking of anti-fouling paints, corroded materials and other indirect discharges which settle into sodiments and may be taken up by blota.

Page 48

- minimize the potential impacts of the proposed action. They are described in Volumes 2, 4, and 7.
- The FEIS text, impact analysis, and description of BMPs and mitigation measures has been revised and clarified.
- 3. There is limited to no data on this species "pupping event" in Apra Harbor and as considering that the species is not federally protected under ESA, it is not considered beyond general descriptions in the EFHA. The NOAA (2005a, b) reference used to identify this "spawning event" has been changed based on this comment. The EFHA has been updated and clarified as appropriate regarding this PHCRT MUS. If the commenter is aware of additional references on this subject please provide to the Navy so they can be evaluated.

J-015-090

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

- The text has been revised to acknowledged the potential for nonnative species to be the majority in recolonization on the new wharf structure. Please also see a previous detailed response to a similar comment.
- 2. See previous response to comment. This was not officially considered a beneficial impact under NEPA; however, an increase in the diversity of the community, including forage habitat for finfish from increased sessile macro-invertebrate growth (albeit non-native) could be argued as such. Text has been modified.
- 3. See previous comment regarding artificial reefs. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable

		. Val	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	207	4	4	16	4.2.2.2	BSP/GCMP	BSP/GCMP	While TBT may have been phased out in (year not specified for final use), the leachates from copper based abiliating paints are still a concorn as their potential for long-term buildup in defined areas has not been addressed. Paragraph indicates sampling in "Outer Apra Harbor" may not be indicative unless they were taken in the shadow of berthed vessels at Klic Wharf where build-ups of abilised or eroded ship related materials could be expected to concentrate. Sampling at Klic Wharf should be undertaken and, if samples show a high concentration of metals or other vessel-related contaminants, then a milipation for long-term impacts should include a regular schedule of sedment clean—up and discosor at the wharf sities.
	208	4	4	25	Table 4.2-6	BSP/GCMP	BSP/GCMP	add: no use of lights (except navigational hazard lights) during periods of coral spawning.
J-015 J-015		4	4	26	para. 6	BSP/GCMP	BSP/GCMP	a comparative analysis of mechanical v. hydraulic dredging should be included. Mechanical dredging may be the way things have generally been done in the past on Guam, but that is insufficient reason to accept that method without a cost/benefit analysis of the two methods.
J-015	- 106	4	4	32	230.11 (G)	BSP/GCMP	BSP/GCMP	If the action is considered necessary for National Interest, as planned, and impacts on coral reefs and coral reef ecosystems in the proposed dredged area cannot be avoided or fully mitigated, compensation could include a greater role for DANR in management responsibilities for role group in DOD submerged lands, and/or recognition of the GovGuam designated Marine Preserve in the Apper Harbor/Orote area.
	211	4	4	34	230.3	BSP/GCMP	BSP/GCMP	"The Navy recognizes that there are many on-going and recent past studies on the subject of potential exposures to sea turties and other marine species from pile driving actions". To follow this statement up with "Further research and validation of these studies are necessary notor to being able to eletermine the applicability of the methodologies and results to the proposed action within this DEIS/DEIS' begs the question, when is enough enough? What do the completed studies show? Why aren't they enough to make a determination from?

Page 49

waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor will one be available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

- 4. See previous comment regarding description and clarification of BMPs and mitigation measures in Volume 7.
- 5. Text has been revised regarding non-native species associated with the cited reference.

J-015-091

Thank you for your comment. This is a duplicate comment that has previously been addressed. The document has been reviewed and modified as appropriate based upon your comments.

J-015-092

Thank you for your comment. These comments have been previously addressed in detail under another comment number. The document has been reviewed and modified as appropriate based upon your comments.

1. In short, there are many factors that contribute to resuspension of sediment and all of these have been taken into account when the sediment transport modeling was performed. See other response to comments.

		Vol	Ch	Pg	Line, Tol, Fig	Org	Commenter (last name)	Comment
J-015	212	4	4		para 485	BSP/GCMP	BSP/GCMP	an artificial reef is, in no way, equal in resource or resource usage value to a natural coral reef, in the same way that an orchard of planted troes does not equal the value of a natural forest. The processes and speci
J-01	7- 108	4	5		general note	BSP/GCMP	BSP/GCMP	while it may be correct to state that the level of pollution, or the air quality will not be altered significantly by vehicles (temporary), or aircraft or carrier operations, there would still be an increase in co2 and other pollutants due to the increased power plant production that will be required for the daily operations associated with support of carrier berthing operations. (Indirect impact)
J-01	214	4	8	2	8.2.1.1	BSP/GCMP	BSP/GCMP	"Other owners who do not want to sell their property (or relocate) would be likely to consider the forced sale or relocation as an adverse impact even though they are properly compensated." This statement can only refer to monetary compensation, which may be proper for owners who only view the land as a monetary investment, (typically a western approach to value), but for owners of the lands in quastion on Guam there are familial and appliculat lies to the land which has been considered family lands for hundreds or even thousands of years. Ancestors are buried on those lands. White a "taking" might be necessary, such action should be approached with significantly more sensitivity about the real importance of the land to the owners. They will not be simply giving up soil for cash, they will be losing much of their family history and connections to their homes.

Page 50

- 2. In short, an extra three trips per year into the harbor is considered negligible over the no-action alternative. The EIS supports this analysis stating that although additional trips may be long-term, the additional impacts would be short-term, periodic and localized. see other responses to comments.
- 3. Text has been revised. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor will one be available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

J-015-093

Thank you for your comment. The artificial structure is not being considered as mitigation; rather, it is part of an overall explanation of impacts, which will result from carrier operations. Additional references have been added to the FEIS.

Under the MSA, federal agencies are required to identify both negative and positive effects associated with the proposed project. This has been identified as a net positive benefit resulting from the deepening of the channel related to continuing operations and therefore is appropriate.

		Vol .	Ch	Pg	Line, Tbi, Fig	Org	Commentor (last name)	Comment
J-015	5- 110 215	4	8	3	8.2.1.2	BSP/GCMP	BSP/GCMP	"Federal actions on federal lands/submorged lands are subject to base command approval, but are not required to conform with state/lerritory land use plans or policios". This statement is not atogether true. Actions on federal lands which may have spillover impacts on non-federal lands are certainly subject to federal consistency requirements, which are based on local policies. Marine wulers and ecosystems are not confined by artificial boundaries, but in fact migrate between state and federal jurisdictions. Actions on submerged lands must address impacts or coral reet communities downtream of the project area.
J-015	216	4	10	11	bullet pt. 2	BSP/GCMP	BSP/GCMP	in order to ensure educational measures in locally accurate, DOD could provide funding to Guam and CMMI agencies to produce a site specific educational video (or series of videos), and pamphtets/brochures for use by all incoming military and DOD employed civiliam workers, detailing the unique environment, and detailing the do's and don'tst laws, etc. regarding the natural, historic and cultural issues for Guam. Given the number of toxic and potentially deadly fauna within shallow waters, (and the propensity of people to handle them because of their coloring/shapes, etc.), the video highlighting of them would also result in a safety briefing for personnel not accustomed to tropical ecosystems.
1 01	217	4	11	5	11.1.1.1	BSP/GCMP	BSP/GCMP	Why wasn't resource agency preferred methodology used to provide data for the EIS?
J-015	218	4	11	43	11.2.1.2	BSP/GCMP	BSP/GCMP	*10. Whether the action threatens a violation of Federal, State, or local law or requirements imposed for the protection of the environment.* while this is the list consideration in the list, it does open the door for introducing local law into the argument and analysis of actions.
	219	4	11	52	bullets	BSP/GCMP	BSP/GCMP	those bullets assume severe stress at above 40mg/cm2/day, yet the source they've been quoting (Rogers) in 1990 cited "moderate to severe sedimentation stressas 10-50 mg/cm2/day" (Life and Death of Corel Reefs, Birkland, et al, 1996, page 372. Chapman & Hall publishers.
	220	4	11	73	11.2.2.4	BSP/GCMP	BSP/GCMP	add sub-bullet to first bullet: "Avoid the use of artificial lighting during summer full moon spawning".

Page 51

Minor text revision has been done to address terminology of impact issues.

J-015-094

Thank you for your comment. The DoD is committed to performing its mission in an environmentally responsible manner with minimal damage to sensitive ecosystems and marine resources.

- 1. The text has been revised to be consistent, including BMPs and Mitigation Measures identified in Volumes 2, 4, and 7. The specific mitigation measure associated with cessation of in-water construction activities (and others) will be detailed in the USACE permitting.
- Text has been revised.
- 3. Habitat assessment methodologies, which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of

100 A ACRES		Vol	Gh	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	- 113	4	11	76	11.2.2.5	BSP/GCMP	BSP/GCMP	The USACE has regulatory authority; compensatory mitigation would be developed during permitting and appropriate units for quantifying credits and debits would be determined by district engineers on a case-by-case basis. District engineers are encouraged to use science-based assessment methods for determining aquatic habitat condition, such as the index of biological integrity, where practicable." There are several concerns with this paragraph. First, Marino biologists should be determining credits and debits, or at least should be the primary voice injusting to the District Engineer. Second: the phrase suggesting District Engineer is encouraged to use science-based assessment methods should read "District Engineer will use science-based assessment methods should read"
	222	4	11	81	11.2.2.7	BSP/GCMP	BSP/GCMP	The HEA and Supporting Studies report (Volume 9, Appendix E, Section À) provides background on the miligation proposals discussed among regulatory agencies and DoD. Many ideas were proposed at a HEA workshop that was hosted by USFWS in 2008 (Guam agencies were unable to attend due to scheduling difficulties).
	223	4	11	83	first para.	BSP/GCMP	BSP/GCMP	*The Navy has not advanced a proposal at this time and specific mitigation measures would be subject to the permitting action/mitigation decision of the USACL." Because any USACE permit would require a federal consistency review, a partnership (govguarn agencies, USACE and DOD) in developing ACE's decision would be beneficial to all parties.
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	224	4	11	107	able 11.2-16		BSP/GCMP	If construction of an artificial reof and/or coral removal and transplantation are deemed acceptable mitigation measures, then the required mitigation plan should include funding by DOD to conduct (through UOS and DAWR) mentioning of those reefs for a period of 50 years. This DEIS has detailed elsewhere in this chapter that long-term monitoring of reof rescovery efforts have not been undertaken or completed. This is an opportunity to begin such a monitoring effort in order to address changes as they occur and to observe recovery methods.
	225	4				BSP/GCMP	BSP/GCMP	
J-015	- 11 4	4	17	7	table 17.2-5	BSP/GCMP	BSP/GCMP	add: annual testing of soils and bottom of submerged lands at berthing areas to identify releases of toxic materials as by-products of operation.

Page 52

elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

J-015-095

Thank you for your comments. The Navy has prepared a coral methodology paper which is summarized in Volume 1, Volume 4, Chapter 11, and is included in its entirety in Volume 9, Appendix J.

In summary, quantifying area cover of benthic habitats and component communities is central to understanding coral reef ecosystem status and function. A myriad of theoretical considerations indicate that measurement of populations structure in terms of size-frequency is not the most effective method for evaluating reef ecosystem structure and function. In addition, the field method suggested by resource agencies to determine population structure in Apra Harbor has a variety of problems that negate this metric as providing a valid, non-subjective data set. These methodological short-comings do not exist for measures of benthic cover. In terms of repeatability, the photographic cover method produces a permanent record of the data source, which can be analyzed by multiple investigators in an identical manner to arrive at reliable and repeatable estimates of coral community cover. Replication reduces the potential for individual investigator bias. Furthermore, remote sensing has become a proven tool for quantifying reef community structure and distribution at large scales. This technology has been demonstrated to be the most cost-effective means for acquiring comprehensive data on reef community structure, and it is the only available tool that can produce globally uniform data (Riegl et al., 2010). Size-frequency can be an important parameter for addressing specific aspects of populations, yet it does not provide the best theoretical and most practicable scientific method for a baseline assessment of the various coral ecosystems in

5	5	9	para. 2	BSP/GCMP	BSP/GCMP	sinkholes should be regularly maintained, cleared of debris to preserve their natural functions.
5	5	2				
			5.2.1.2	BSP/GCMP	BSP/GCMP	The potential effects of CO2 and other greenhouse gas emissions are by nature global and are based on cumulative impacts. Individual sources are not large enough to have an appreciable effect on climate change. This statement is perhaps the most ludicrous sentence in the whole project. Cumuiative means that it is the result of many actions, and so all those many actions must be addressed. In addition, USEPA just announced new regulatory authority over CO2 greenhouse gases because of their harm to humans. The CO2 levels need to be addressed as an element of cumulative impact.
5	6	3	6.2.2.1	BSP/GCMP	BSP/GCMP	Preferred alternative 1 is compatible with Marine Corps build-up alternatives 1 and 8 - however, Marine Corps preferred alternative is 2, not 1 or 8!
5	7			BSP/GCMP	BSP/GCMP	The SUA for this project encompasses all of NWF - which HC-25 currently uses and which is proposed for Marine training areas in Vol. 2 of this document. What is impact on those uses?
5	9	2	9.2.2.1	BSP/GCMP	BSP/GCMP	Paragraph 2 of this section is the first instance I've seen where they state that Haputo and GNW/R would be off-limits to non-DOD affiliated persons and their dependents. This is a much stricter statement then appears in previous volumes.
5	9	3		BSP/GCMP	BSP/GCMP	The sole recreational resource at Navy Barrigada features one of two golf courses available to installation personnel and guests on Guam, the Admiral Nimitz Golf Course. This statement is not true. All golf courses on Guam are available to installation personnel and guests. Installation personnel have the right to register to vote on Guam white stationed there and, by doing so, would qualify for local rates at civilian golf courses. Whether to do that or not is strictly a choice of the military member or their spouses. This, by the way, is exactly the same choice that military personnel on Hawaii have to make relative to gotting and golf rates.
	5	5 7	5 7 5 9 2	5 7 5 9 2 9.22.1	5 7 BSP/GCMP 5 9 2 9.2.2.1 BSP/GCMP	5 7 BSP/GCMP BSP/GCMP 5 9 2 9.2.2.1 BSP/GCMP BSP/GCMP

Page 53

Guam. The photographic percent coral cover method used by the DoN for the assessment of Apra Harbor and potential mitigation sites is presently the best, most practicable science available (Riegl et al., 2010).

- 1. The report you refer to is a final report and will not be edited. There may be updates to the report to support the Army Corps of Engineers permits, but they would be considered new reports with new information. The following text includes information to address your comment.
- 2. The Navy recognizes the importance of all substrate types in the waters of the proposed action area. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits

		Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Comment
J-015	233	5	9			BSP/GCMP	BSP/GCMP	There is something wrong with the notion that military personnel, their dependents and non-DOD employees should have free access to all recreational opportunities (competing with residents and tourists for these resources) off base, and should also have sole access to recreational resources (and natural resources, and historic resources and outbral resources) on base. This approach of segregating the military community from the divilian community for non-DOD related activities helps to create the spit between the communities that contributes to riodize between them.
J-015	-122 234	5	10	6	10.2.2.2	BSP/GCMP	BSP/GCMP	It would appear from Figure 10.2-1 that destruction of the primary limestone forest lands could be avoided through design of headquarters and housing - either through reconfiguration of building tootprints and/or more compact building (up rather than out).
J-015	235	5	10	11	0.2.3.1 (etal	BSP/GCMP	BSP/GCMP	However, long-term, permanent impacts to populations of such species would not result because the species known to be present are abundant in surrounding areas, and would rapidly repopulate suitable portions of the affected area. This statement has been made throughout the DEIS and, while there is some truth in it, the statement ignores the impact of diminished total populations. In natural settings, wildlife fonds to occupy the maximum and space it can for attain a maximum population density for the land available). Any wildlife displaced to adjacent lands would, in all filefillhood, oxpand that species population beyond the sustainability levels of the habitat. Natural levels would result over time, but the overall long term impact is that total populations of species would, necessarily, be reduced.
J-015	-124	5	13	3	1st para.	BSP/GCMP	BSP/GCMP	The fact that the property is or is not in DOD ownership is immaterial unless a scenic view is only seen from within that property.

Page 54

under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

3. The HEA is included in Appendix 9, and includes detail on this and many other matters. Please refer to Appendix 9.

J-015-096

Thank you for your comments.

1. The information provided in the DEIS on coral resilience and stress tolerance were based in part on the HEA report, which was reviewed and commented on by resource agencies with Navy response. Additionally information was provided during the "spring survey" second report. Most of the older references (1970 -1990s) are backed up by more recent references (2005 and earlier). And just because the commenter thinks they are "old" doesn't make them invalid. If there are other key references the commenter has become aware of, please forward those to the Navy POC for review and potential incorporation into the FEIS.

2 and 3. See previous comment(s) on coral methodology debate.

J-015-097

Thank you for your comment. These comments have been previously addressed in detail under another comment number. The document has been reviewed and modified as appropriate based upon your comments.

1-3. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting

		Vol	Ch ·	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	5 -125	5	9	2	line 21, Par	BSP/GCMP	Torres	The primary users of these on-base recreational resources would be installation personnel, civilian workers, and their dependents. To ehether military on-base equipments and personnel, as well as to facilitate training operations, persons other than the described would not have access to, and use of, these recreational resources.* Does this mean that local military persons, retirees, tamilies & guests will have no access to recreational research. Reventheless, some crowding at the existing recreational resources (e.g., more people on trails, beaches, cultural sites) is expected as the result of the presence of the new population on base. Therefore, Alternative 1 would result in less than significant impacts to recreational resources at NCTS Fringayan. Some crowding may actually be significant when total population increase on NCTAMs is considered. Mitigation of such impacts may include Management Measures to reduce impacts while still allowing the widest access to recreational resources, including for non-base personnel. This should be planned and implemented. This should be planned and implemented. The should be recreational resources at South Finegayan. Consequently, there would be no impacts to recreational resources at South Finegayan.
	238	5	9	3		BSP/GCMP	Torres	An increase in the number of goffers could potentially lead to reduced availability of tee times at the golf course. Therefore, Alternative 1 would result in less than significant impacts to recreational resources at Navy Barrigada. This appears to be a contradictory statement in that it states 'reduced availability will result' but it is a 'less than significant impact'. Seems to be a boiler plate statement throughout the DEIs which brings in to question the analysis of other portions of the DEIs. An attempt at actually quantifying actual impacts would be useful. Could the increased population of golfers result in loss of privileges for refired local military in the future?
J-015	5- 126 239	5	12	2	12.2.1.2	BSP/GCMP	Torres	Paragraph 3 refers to a PA or Programmatic Agreement with all agencies involved. Other than the Local SHPO have other local "Participants" to the PA process been consulted? Especially with regards to the Paget site. There is a requirement for such consultation under the 36 CFR 800.2 Participants in the section 106 Process, if not then they should be consulted immediately.

Page 55

the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor will one be available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

4. The acreages found in each table are referring to different Alternatives.

J-015-098

Thank you for your comment. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the

		Vol	Çh .	Pg	Line, TbJ, Flg	Org	Commenter (last name)	Comment
J-015	- 127 240	5	13	3		BSP/GCMP	Torres	These miligation measures should be incorporated throughout the project. In addition to retention of mature native forest species planting of such species to let to construction in areas suitable for long term survival should also be a miligation measure of the project. This is addressed on pg 13.9 milisation measures.
J-015	241	5	18	4		BSP/GCMP	Torres	Because corresponding increases in GPD personnel are anticipated to occur to mainfain existing service conditions, no impact to police service are anticipated. The statement implies throre will be a corresponding increases in police, also fire and other GovGuam personnel to handle increased Public Health and Safety issues. Is this expected increase to be funded entirely by GovGuam through expected increases are realized. How will the gap in such services be handled? This period will be critical as there will be a significant increase in population. Will DOD pay for the initial few years of increased personnel costs associated directly with the buildup until revenues catch up? The less than significant impact are not accurate unless additional resources are provided to GovGuam for the gap period and spelled out in the mitigative measures.
J-015	242	5	18	4		BSP/GCMP	Torres	There is only a small potential for increases in notifiable diseases (including construction workforce contribution) and the Nary hospital would be available to treat military personnel; therefore, Alternative 1 would result in less than significant impacts to public health and safety (from notifiable diseases). Though anticipated as small for this portion of the buildup, the cumulative effects of the buildup may result in significant impacts to public health and safety from notifiable diseases). How does DOD intend to assist in addressing this potential adverse effect to the boal populace? Considering the already shretched health resources from provious Federal actions (Compact with FSM) will additional funding be provided to hire adequate health personnel for the construction surge or will GovGusum and the local population be expected to deal with the additional bronder? This also includes the other public health and safety categories in this entire section. The less then significant impact determinations are not accurate unless additional resources are provided to GovCusum for the gas period and spelled out in the mitigative measures. Note: The above statements apply to all alternatives in this public health and safety section.

Page 56

"best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

J-015-099

Thank you for your comment. This exact comment has been previously addressed in detail under another comment number. The document has been reviewed and modified as appropriate based upon your comments.

In short, any re-growth of coral (encrusting), macro-invertebrates, or submerged aquatic vegetation in the Channel with relatively low vertical relief may not be impacted by future maintenance dredging operations. The EFHA has taken into account the loss of habitat.

J-015-100

Thank you for your comment. As noted in Chapter 2, Section 2.3.4.3 of Volume 4, Kilo Wharf construction and its extension utilized concrete caisson construction. The Kilo Wharf Extension EIS and Record of Decision noted that the dredging-related plume associated with the caisson construction under the Preferred Alternative for the Kilo Wharf Extension could adversely impact approximately 1.7 acres (0.7 hectares) to 14.9 acres (6.0 hectares) of benthic habitat including approximately 0.14 acres (0.06 ha) to 0.72 ac (0.29 ha) of coral reef communities over the course of the dredging period. The spread in the modeling analysis was dependent on the dredging rate and environmental conditions at the time of dredging. The analysis did in fact note that adverse impacts to corals from the caisson-designed extension of Kilo Wharf could occur. The EIS for this proposed action notes the advantages and disadvantages of the three potential types of wharf design in Section

		Vol	Ch	Pg	Line, TbI, Fig.	Org	Commenter (last name)	Comment
J-01!	5- 130 243	5	18	18-4		BSP/GCMP	Torres	The summary of impacts as LSI in this section related to public health, asfety and mental fifness is considered invalid based on previous statements above on the section. When considered as a part of the whole buildup project the cumulative effects may be considered significant without more mitigation measures. It appears that this part of the buildup meets the criteria of Environmental Justice section, "Whether the action is related to other actions with individually insignificant but cumulatively significant impacts. Significance exists if it is reasonable to anticipate a cumulatively significant impact on the environment. Significance cannot be avoided by terming an action temporary or by breaking it down into small component parts." This appears to be the smaller component of the buildup.
1-01	i-131	5	1 AB	1	- 9	BSP/GCMP	Perez	DoD should address who are the members of the Army Air and Missile Dofense Task Force?
	245	5	1 AB	1	12 & 13	BSP/GCMP	Poroz	The Draft EIS on "purpose and need" statement indicates to develop land-based terminal defense and to develop infrastructure and facilities that support the presence and operation of an AMDTF land based air defense capability on Guam. Does Dot plan on utilizing any government or private lands for the proposed project activities or will strictly be situated on military land?
	246	5	2 AB	1	23	BSP/GCMP	Perez	DoD needs to explain what is a "weapons emplacement site"? Does this proposed site involve any clearing of land, any disturbance to natives species and their habitat, taking of Government or Private land;
-	247	5	2 AB	2	Fig. 2.1-1	BSP/GCMP	Perez	Weapons Emplacement - Alternative 4: What is the perimeter of the combined three sites? How will DoD address the impacts on the native species and their habitat?
	248	5	2 AB	4	9	BSP/GCMP	Perez	Statement "for planning purposee it is assumed that all soldiers, contractors, and dependents would be permanently stationed on Quant". Gent: Does Tourisactors' as referred to on the above statement implying military personel or are they foreign workers? If they are not military personnel and are foreign workers, it is not accurate to assume that they would be permanently stationed on Quant.
	249	5	2 AB	8	9	BSP/GCMP	Perez	Statement "Other activities would include storage of petroleum, cils, and lubricants (POL); battery storage; fuel dispensing; and welding". What; control or safety measures does Dob havo in order to address the affects on the release of hazardous substance that may result from the discharge or release of any petorleum/oil spalls?

Page 57

2.3.4 of Volume 4.

The differences between the environmental effects of mechanical and hydraulic dredging are discussed in Chapter 2, Volume 4 and Appendix D of the EIS. Mechanical dredging involves use of a clamshell or fixed bucket that excavates the dredge sediment from the harbor floor and then carries the sediment in the full bucket through the water column before lifting the bucket out of the water and placing the dredged sediment in a nearby barge or scrow. During this movement, a small fraction of the collected sediment will escape from the bucket and create suspended sediment in the lower and higher levels of the water column. On the other hand, a hydraulic dredge works solely on the harbor floor and any suspended sediment will emanate only in the lower portion of water column. As a result, the plume of suspended sediment is generally greater with use of conventional clam shell bucket as compared with a hydraulic dredge. However, use of hydraulic dredging is generally limited to soft bottom sediment on relatively flat surfaces. Mechanical dredging, which has historically been used in Apra Harbor, was chosen as the dredging method for evaluating environmental impacts as it presents the most adverse impact scenario.

A sediment plume is an inevitable effect of in-water construction activities. The Navy proposes to minimize sedimentation by using best management practices such as silt curtains and operational controls of dredging equipment. Final mitigation measures for all dredging activities will be determined and agreed upon during the permit phase of the projects.

Sediment samples within the proposed dredging areas were comprehensively analyzed for a wide range of parameters according to USEPA and USACE standard testing criteria. A total of fourteen discrete, representative sampling sites were included, as shown in Chapter 2 of Volume 4. These locations included the proposed turning basin in the Outer Harbor and the berthing areas of Alternative 1 and 2.

		Vol	Ch	Pg	Line, Tbl; Fig	Org	Commenter (last name)	Comment .
1-015	-132	5	2 AB	10	Fig. 2.3-2	BSP/GCMP	Perez	From the Legend, what does "Class D Airspace" mean?
J-01		5	3 AB	1	24	BSP/GCMP	Perez	Statement: "A site-specific geotechnical investigation was not undertaken for this Environmental Impact Statement/Overseas Environmental Impact Statement (EIS/OEIS)". What is Dobs reason for not having the geotechnical investigation done?
	252	5	3 AB	9	8	BSP/GCMP	Perez	The second paragraph describes the Topography and landscape features. It further states that "if deemed hazardoussigns will be put in place sice." Why not take precautions now and not wait fund it is deemed hazardous? You should always plan for the worst.
J-01	5-134 253	5	4 AB	4	8	BSP/GCMP	Perez	The DEIS statement on wetlands. The proposed project areas do not contain wetlands therefore an approach for analyzing wetland limpacts is not presented here. Based on whose determination that there are no wetlands contained in the proposed areas? DoD should analyze to determine the type of soil in the area. Who is to say that the area is not a habitat for native species that live near or within the area. If there are native species, then yes wetlands will be impacted.
J-015	5-135 254	5	5 AB	2	26	BSP/GCMP	Perez	Statements made regarding CO2 is questionable. With the various types of activites that DcD proposes, CO2 will definately have an impact on climate change and effects on humans whether it be shart or long term or in some rare instances, deadly effect. How does DoD propose to address the cumulative impacts from carbon dioxide?
	255	5	5 AB	8	Below Tbl. 5.2-5.	BSP/GCMP	Perez	Statement: The DEIS states that "The air emissions predicted for Alternatives 1, 2 and 3 associted with construction and operation activities required for the relocation of the Army AMDTF to Guarn are 8 well below the significance criterion of 250 TPY." Gen: If DoJ is predicting that the air emissions are well below the significance, then we must assume that DoJ is not quite sure of its affect. DoJ should provide supporting documents to validity the above statement. In addition, how does DoD plan to address the above statement should the prediction is inaccurate.
J-01	5-136	5	6 AB	3	889	BSP/GCMP	Perez	Preferred Alternative 1 for Hoadquarters/Housing references: "This atternative is compatible with Marino Corps Alternatives 1 and 8 (refer to Volume 2)". In reviewing Youtume 2 as referenced above, statement made on Volume 5 does not concur with what appears on Figure 2.1-2 of volume 2which identifies it as Alternative 2, not 1 and 8.

Page 58

As discussed in the EIS (Chapters 2 and 4 of Volumes 2 and 4), preliminary sampling results indicate that all contaminant parameters that were tested with the exception of nickel were below the Effects Range Low (ER-L) level. Nickel is a substance that is naturally occurring in the environment. The study results suggest that the materials to be dredged would not require special handling and would be suitable for upland placement for beneficial reuse or ocean disposal (although the ocean disposal permitting process would require separate analysis and toxicity testing). Additional testing will occur during the permitting process and a dredged material management plan will be developed. It should be noted that the analysis for disposal at the ocean disposal site is especially rigorous testing beyond what is normally required for upland disposal. Testing of the sediments at Kilo Wharf would not provide site specific results needed for the sediments to be dredged for either Alternative 1 or 2.

J-015-101

Thank you for your comment.

Transplanting corals is possible, and is discussed as a possible compensatory mitigation option in Volume 4, Chapter 11. This will be included in the compensatory mitigation plan to be prepared by the Navy.

J-015-102

Thank you for your comment. The paragraph in question has been updated to include anti-fouling paint as an item that could affect nearshore water quality. The Final EIS includes a discussion of potential impacts from anti-fouling paint.

J-015-103

Thank you for your comment. Sediment samples within the proposed

		Vol	Ch	Pg	Line, Tbl, Fig	Örg	Commenter (last name)	Comment
J-015	5- 137 257	5	9	1	22 &23	BSP/GCMP	Perez	The Draft EIS states within the Methodology that conducting recreational resource impact analyses are somewhat limited since the Government of Guam, Department of Parks and Recreation does not collect visitor data for its recreational facilities. Do Should contact the Guam Department of Parks and Recreation (DPR) to ascertain the visitor data. From coordinations with DPR's recreation division, they have provided visitor data in the past on user count, user conflicts etc.
J-015	5- 138 258	5	10	6	28	BSP/GCMP	Perez	The Draft EIS states that the wildife species that currently occur at Barrigada to include native and non-native species will not have a long-term impact from the proposed construction because the species would radily repopulate to suitable portions of the affected area. General Comment. Regardless whether the species will repopulate elsewhere, the fact of the matter is that these species will be helpless and traumatized from being displaced out of their natural habitat of which they have liked there for so many years. DoD must find ways to guarantee for the protection of these species.
J-015	5- 139 259	5				BSP/GCMP	Perez	General Comment: It is difficult to accurately review the DEIS when the document keeps sitting "Refer to Volume so and so". It takes up a lot of time in having to go back to a specific volume resulting in loss of concentration. The DEIS in my opinion could have been prepared better and easier to understand. Not a user friendly document, too fechnical at times.
J-015	-140	6	4			BSP/GCMP	De Leon	Ways to accommodate pedestrisms, bicycle travel, sidewalks and parking must be addressed on all affected roadway activities to prevent accidents which are prevalent on Guam due to conflicting uses of roadways.
J-015	-141	6	9	9.2		BSP/GCMP	De Leon	Must indicate that alircraft operating at the AAFB airfield will continue to follow existing procedures that restrict overflight of federally listed endangered Mariana crow and Mariana fruit bat territories.
J-015	-142	6	2	5	1st para.	BSP/GCMP	BSP/GCMP	The Navy transient personnel are all shipboard, and the ships would not require support services during the interim period (i.e., would not initially contribute to demands on public utilities), with the exception of wastewater. Also a demand of solid waste disposal and potable water.

Page 59

dredging areas were comprehensively analyzed for a wide range of parameters according to USEPA and USACE standard testing criteria. A total of fourteen discrete, representative sampling sites were included, as shown in Chapter 2 of Volume 4. Additional testing would occur as determined to be necessary by the regulatory agencies during the permitting process and a dredged material management plan would be developed similar to what was required for Kilo Wharf.

We note that the Department of Army Permit No. POH - 2008, which authorized the expansion of Kilo Wharf, required that sediment removed from dredging be tested for possible pollutants before it is dredged. If the sediment is to be deposited with other sediment from previous dredging, the contaminants in the other sediments must be sampled before the Kilo Wharf dredge material is deposited with them. Results of this sampling are being monitored by the Guam EPA. If samples show high concentrations of metals and or other related contaminants, all parties to the Department of Army Permit would be notified for appropriate action.

J-015-104

Thank you for your comment. The Final EIS identifies this mitigation measure.

J-015-105

Thank you for your comment. The Section cited is from the least environmentally damaging practicable alternative (LEDPA) discussion in Volume 4, which is only a summary of the project and its potential impacts. Additional information on mechanical and hydraulic dredging may be found in Section 2.3.5, and a reference has been added to the text.

The differences between the environmental effects of mechanical and hydraulic dredging are discussed in Chapter 2, Volume 4 and Appendix

		Vol	Ch	'Pg	Line, Tol. Fig	Org.	Commenter (last name)	Comment
J-015	5- 143 263	6	2	10	Table 2.1-3	BSP/GCMP	BSP/GCMP	Solar power should not be discounted. This section concerns itself with power plant generated power. Housing (family and barracks) could utilize solar power for water heating and, in some cases, air conditioning. This may not make a substantial difference in power generation needs from plants, but it would seem a requirement to meet LEED standards - and would address energy policy as iterated by the White house.
[264	6	2	11"	Table 2.1-3	BSP/GCMP	BSP/GCMP	Any increased production utilizing oil, particularly #6 heavy, should include the addition of scrubbers to reduce sulpher and CO2 emissions.
	265	6	2	12	Table 2.1-3	BSP/GCMP	BSP/GCMP	If a new plant at Cabras is pursued, it is recommended that LNG as a fuel be vigorously pursued, not only as a cleaner alternative, but in the spill-over impact it might have on fuel options for the general population. A LNG supplier would (by economics of scale) be able to reliably supply LNG for home use (particularly in cooking) thus reducing destrictly demands.
	266	6	2	16	2.1.3.6	BSP/GCMP	BSP/GCMP	Solar hot water heaters and photovoltaic's are being considered for individual buildings including housing and office buildings. Since all fuels have to be imported to Guern, this argument is specious.
	267	6	2	17	2.1.3.10	BSP/GCMP	BSP/GCMP	OTEC production, initially proposed for Guam under the Calvo administration, was an ammonia- closed cycle system, which reised concerns over the safety of ammonia storage and use adjacent to a coral reef system. If OTEC is pursued in the future, it should be based on being an open cycle system.
J-01	5- 144 268	6	2	37	2.2.3.2	BSP/GCMP	BSP/GCMP	there is sufficient water supply to meet the anticipated non-DoD water demand, provided that the proposed system expansion is operational in time to meet increased demand. Given the financial statu- of-affairs of the Government of Guarn, it is important that DOD contribute up-front costs for GWA to undertake expansion of their system, since increased off-base demand is directly attributable to on-base developments.

Page 60

D of the EIS. Mechanical dredging involves use of a clamshell or fixed bucket that excavates the dredge sediment from the harbor floor and then carries the sediment in the full bucket through the water column before lifting the bucket out of the water and placing the dredged sediment in a nearby barge or scrow. During this movement, a small fraction of the collected sediment will escape from the bucket and create suspended sediment in the lower and higher levels of the water column. On the other hand, a hydraulic dredge works solely on the harbor floor and any suspended sediment will emanate only in the lower portion of water column. As a result, the plume of suspended sediment is generally greater with use of conventional clam shell bucket as compared with a hydraulic dredge. However, use of hydraulic dredging is generally limited to soft bottom sediment on relatively flat surfaces. Mechanical dredging, which has historically been used in Apra Harbor, was chosen as the dredging method for evaluating environmental impacts as it presents the most adverse impact scenario.

A sediment plume is an inevitable effect of in-water construction activities. The Navy proposes to minimize sedimentation by using best management practices such as silt curtains and operational controls of dredging equipment. Final mitigation measures for all dredging activities will be determined and agreed upon during the permit phase of the projects.

J-015-106

Thank you for your comment. The commenter is referencing Chapter 4, Water Resources and should refer to Chapter 11 (as stated in Chapter 4) for additional detail.

- 1. Comment noted.
- 2. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an

		Vol	Ċh	Þg	Line, Tb!, Fig	Org	Commenter (last name)	Comment
J-015	269	6	2	51	Table 2.2-13	BSP/GCMP	BSP/GCMP	The tables on sustainable yield do not appear to take in effects of sea level rise on the fresh water within the aquifer. The studies sited (CDM '32 and Barrett '91) were completed long before studies on sea level rise were understane. While studies still vary in their predictions (World Climate Research Program predicts as little as three quarters inch rise to a high of .195" per year between 2010 and 2020, while Proudman Oceanographic Laboratories in the UK predict a 1.57" per year rise for the century), there is allmost unanimous agreement that the sea level is rising and will continue to do so. These impacts have to be addressed in assessing sustainable yield at both a best case and worst case scenario.
J-015	-146	6	2		table 2.3-8	BSP/GCMP	BSP/GCMP	some of the concerns with the alternatives on this table (impacts on coral reefs and/or aquatic animals) can be alleviated by extending outfall pipes down below the reef level through horizontal critiling.
	271	6	2			BSP/GCMP	BSP/GCMP	It should be noted that Section 438 (EISA 2007) requires new measures be undertaken by federal agencies in management of storm water runoff. USEPA issued specifics in a Technical Guidance in December 2009. Among other measures, the planting of green spaces on rooftops is recommended.
J-015	5- 147 272	6	2	93	243	BSP/GCMP	BSP/GCMP	The use of Layon solid waste facility by DOD will result in significant extra traffic by large trucks on a daily basis. Has this been accounted for in the road improvements? At the estimated amount of solid waste that will be DOD generated (table 2.4-1, page 90), and using the manufacturers estimates on pounds per square yard (1,000 as per Hell trucks vs. 1,200 provided in this document), the total amount of DOD generated waste to go to Layon would be 1, 013,988 cubic yards of waste. A large, modern trash truck (using the Hell Formuria 5,000 as the example) can carry between 18-32 cubic yards. Assuming a full load (32 cubic yards per truck), DOD would deliver 12 truckloads par day, five days a week for 10 years (that's 32,000 lbs. per load not including the weight of the truck). During the construction phase it is likely that the frequency of the loads with be even greater. What impact will this have on roads that are used as route to Layon from DOD sites and are they being uppraded to address this impact?

Page 61

evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

J-015-107

Thank you for your comment. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor will one be available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	273	6	2	96	2.4.4.1	BSP/GCMP	BSP/GCMP	a new liner system would require approximately 3 years for design, permitting, and construction (assuming that the Navy would hire contractors to do this work) and therefore would not be ready by 2010 when the Marine Corps would begin to relocate. The marines will not relocate until 2013/2014, so this particular argument is based on an erroneous assumption. There are some reasons for dismissing this option, but design and permitting time are not perf of those reasons.
J-015	274	6	2	134	2.5.5	BSP/GCMP	BSP/GCMP	USEPA Technical Guidance, issued December 2009 (storm water management).
J-015		6	3	25	3.1.4.1	BSP/GCMP	BSP/GCMP	NAVFAC Marianas has initiated an effort to "partner" with Andersen AFB in its recycling efforts. By collecting and transferring recyclable waste from Navy facilities to the Andersen AFB recycling center, the Navy hopes to reduce the flow of waste into the Navy landfill and increase the profitability of the Air force's investment into its recycling equipment by adding volume of recyclable waste. However, the current volume of recyclable waste generated by the Navy is likely well below the amount needed to construct and operate a dedicated Navy recycling center that is capable of supporting itself in terms of cost. NOTE: because recycling is an "economy of scale" effort, an opportunity would exist to allow for collection points of recyclable materials from the general public as well, thus helping to reduce the solid waste load at Layon. (GovGuam has been consulting with the military for several years regarding the potential consolidation of their individual solid waste programs or components of these programs (e.g., recycling facilities). [Ch. 3, page 28]
J-015	-151	6	3	52	3.2.3.1	BSP/GCMP	BSP/GCMP	GovGuam may charge development impact fees that could enhance financing options that could go toward acceleration of projects to improve the GWA water system. This is probably not feasible within any workable time frame. Federal courts in NC have recently ruled against developer impact fees and while this could be overtured in appellation or Supreme Court, the process is questionable at this time.
J-015	-1752	6	4	31	table 4.1-17	BSP/GCMP	BSP/GCMP	Blue Line 2 has 8 outbound and 6 inbound trips per day. Do they lose a bus along the way every day?
	278	6	4	40	4.2.1	BSP/GCMP	BSP/GCMP	note: delivery of construction/demolition debris to Layon was not included in these calculations.

Page 62

FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

J-015-108

Thank you for your comment.

J-015-109

Thank you for your comment. DoD was required to determine whether military relocation requirements could be met by excess, underutilized or otherwise available property held by DoD on Guam. Early development plans attempted to keep all activities on existing DoD lands. However, as discussed in the FEIS (Volume 2, Chapter 2), after applying operational and environmental screening criteria, no contiguous DoD area on Guam was identified that could support all the land use and operational requirements of the action.

Should DoD determine that additional land is necessary to meet its requirements, DoD policy requires that it negotiate with affected public and private land owners in good faith, seek agreements to acquire desired lands interests and pay fair market value. Where circumstances exist that require resolution of issues such as ownership or value, procedures exist under eminent domain authority to resolve those questions. Eminent domain requires reimbursement at fair market value.

J-015-110

Thank you for your comment. The coastal zone consistency determination, currently ongoing, summarizes the direct and indirect impact to GovGuam lands and submerged lands.

J-015-111

Thank you for comment and suggestion. DoD will work closely with the

		Vo.	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Comment
J-015	-1 5 3	6	4	40	4.2.1.1	BSP/GCMP	BSP/GCMP	Typically, a 2% increase of a critical movement at an intersection operating at LOS D or worse would be considered significant. For the purpose of this analysis, 5% increase in total traffic was use as the significance threshold regardless of level of service.
	280	6	4		general note	BSP/GCMP	BSP/GCMP	It may help to reduce time/eliminate vic F times to designate inside lane for mass transit or vehicles with 3 or more passengers only, which may also increase mass transit indership. In some areas the creation of a convertible lane may also be possible. While these options would normally be the responsibility of GovGuam for designation, the severity of the impacts created by DOD actions would suggest that a DOD/GovGuam cooperative effort be made to find creative solutions to lanticipated congestion.
	281	6	4	167	Table 4.2-34	BSP/GCMP	BSP/GCMP	This table indicates that only 10 out of 58 road segments analyzed will not be congested, no matter which alternative is selected. This would demand that alternatives for transportation be seriously considered immediately. Staggering work hours for both DOD and for non-DOD workers is the simplest action, but that is not the total answer, incentive/disincentives for drivers (car pool-bus lanes, etc) will also be necessary. This is a problem that both DOD and GovGuam need to act on in concert.
J-015	282	6	5	8	5.2.2.1	BSP/GCMP	BSP/GCMP	• the area of land to be graded shall be kept to a minimum, stabilized, or receive temporary covering if delays exceeding? a months of soposure occur; if the delay occurs in any part of the rainy season, then two months is much too long to wait to cover or stabilize graded areas, and very short periods of inactivity near streambeds or areas of particular concern should be stabilized at all times. Tropical storms and/or hyphonos can occur with no more than a week's notice of potendial strike and, a was shown with Pamela in '75, as much as 30' of rain can fall in a very short period. There must be plans for emergency covering of graded sites in such events.
J-015	283	6	6	12	6.2.3.1	BSP/GCMP	BSP/GCMP	The cave and pool systems may be considered jurisdictional waters of the U.S
7 013	233							

Government of Guam agencies and local stakeholders to minimize impacts associated with the proposed military relocation program.

J-015-112

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

- 1. The FEIS has clarified why the resource agencies' preferred coral methodology is flawed in Volume 1, Volume 4, Chapter 11, and the paper that these summaries are based in Volume 9, Appendix J.
- 2. Comment noted.
- 3. These bullets on page 11-52 of the DEIS are a summary of result from SEI (2009) modeling, not directly quoted from Rogers (1990).
- 4. These mitigations would be detailed in the USACE permit special conditions. If dredging has been halted near the reefs, most artificial lighting, would also not be in operation.

J-015-113

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

- 1. District engineers is the language used in the Federal Registrar. Text changed to "will use."
- 2. The report you refer to is a final report and will not be edited. There may be updates to the report to support the Army Corps of Engineers permits, but they would be considered new reports with new information.
- 3. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor will one be available for incorporation into the

		Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Comment
J-015	5- 156 284	6	6	19	6.2.5.2	BSP/GCMP	BSP/GCMP	Implementation of the Preferred Alternative has the potential to contribute to continued contamination of the underlying groundwater. However, the landfill is located over aquifers not used for supplying drinking water. This is extremely shortsighted. Whether or not the existing groundwater is used at this time should not be a determining factor in deliberately continuing pollution of the lands and waters of Gusum.
J-015	-157	6	7	29	7.2.5.2	BSP/GCMP	BSP/GCMP	It should be noted that CO2 is not a criteria pollutant and therefore is not compared to criteria pollutant thresholds.
	286	6	7			BSP/GCMP	BSP/GCMP	Given the significant delays in traffic predicted (more time with velocis in idle), it could be suggested that, at least for 'automobiles', DOD could use verifices that automatically shut down when left to idle - such as Toyota Prius and other hybrids. This would not only result in a significant fluel savings annually, but would reduce OC2 emissions.
J-015	5- 158 287	6	10	3	10.2.1.2	BSP/GCMP	BSP/GCMP	Federal actions on federal submerged lands lands/submerged lands are subject to Base Command approval, but are not required to conform with state/Territory and use plans or policies. While U.S.Government may claim control over portions of Guarn's submerged lands, the activities on those submerged lands are still subject to GovGuarn policies (via: Federal Consistency) because any activity will have an impact on resources in the water column, which moves across jurisdictional boundaries. At the very least, the Resource Policies 1,4 and 5 of Executive Order 78-37, which forms the basis for the Guarn Coestal Management Program policies, must be addressed.
J-01	-159	6	10	4	10.2.1.2	BSP/GCMP	BSP/GCMP	restricted access, while important to affected land-owners, is equally if not more important in terms of cultural connections with the land and sea for the native population of Guarn. This impact cannot be mitigated with compensation.
J-01	-160	6	10	10	10.2.4.1	BSP/GCMP	BSP/GCMP	No new uses in submerged lands are proposed. While no new uses are proposed, an increase in effluent discharged into near coastal waters will result.

Page 64

FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Section 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

J-015-114

Thank you for your comment. The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including fuels, lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, PCBs, and other hazardous substances. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and instead substitute these materials for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to comply with these laws and regulations, DoD has developed various procedures, protocols, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage, spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are described in the EIS document (Volume 7). Note that BMPs and SOPs are not considered "mitigation measures" because the BMPs and SOPs are existing requirements under existing laws and regulations and would be implemented as part of the proposed action. However, if a leak, release, or spill is suspected or confirmed, aggressive measures would be used to first clean up the leak, spill, or

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	5- 161 290	6	10	11	10.2.5	BSP/GCMP	BSP/GCMP	The impacts from use of Layon landfill have not been addressed. With significant increase in traffic to accommodate both DOD and civilian solid weste disposal, the use of heavy garbage trucks (est. local of which as 36 or trucks per day for DOD only) on Rt. 4, which is at sea level and close to beach areas for much of the route, would result in increased oil, rubber and other pollutants that would be transported onto nearshor receits. There has been no discussion of this indirect impact.
J-01	-1:62	6	12	8	12.2.3.1	BSP/GCMP	BSP/GCMP	long-term, permanent impacts to populations of such species would not result because the species known to be present are abundant in surrounding areas. If you reduce habitat, you reduce population!
J-015	5- 163	6	12	38	12.2.6.1	BSP/GCMP	BSP/GCMP	The CNMI and Guam Stormwater Management Manual (CNMI and Guam 2086) provides examples of BMPs that would be included in the planning, design, and construction for all proposed road improvement projects. A Storm Water Runoff Drainage System Plan is required for a Building Permit by the Guam DPW when the area to be graded is more than 5,000 square feet (1645 square meters) or a proposed cut or fill is greater than 5.0 ft (1.5 m) in height. This stormwater plan would describe the potential impacts and proposed mitigation associated runoff and drainage. USEPA has doveloped new guidelines for stormwater (Doc. 2009) which should include new mitigation techniques and allowances.
J-01	-1:64	6	13	16	13.2.4.1	BSP/GCMP	BSP/GCMP	do not take into account the degradation of constituents, die-off of organisms, or uptake of the pollutants by existing aquatic life. If the pollutants are taken up, is there a cumulative build up within the marine life, and what are the impacts within the food chain?
	294	6	13	16	13.2.4.1	BSP/GCMP	BSP/GCMP	When mixed with the higher pH fevel of the receiving marine water, ammonia present in the wastewater discharge will increase in toxicity. Toxicity is still a function of concentration and, since the initial dilution of ammonia in the rising primary treatment pixme is around 60 yel/VI, this value is nearly two orders of magnitude (or about 1/200) of the concentration found to be toxic from onts fithes (USEPA 1972).
[295	6	13	19	13.2.4.1	BSP/GCMP	BSP/GCMP	Spinner Dolphins were regularly observed congregating near the outfall plume of the Agana Treatment Plant prior to its repair. Have any morbidity studies been accomplished to assess the impact of primary treated effluent on marine mammals?

Page 65

release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are eliminated quickly and effectively. The frequency of media monitoring is determined on a case-by-case basis. In many cases, part of a remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. As part of the clean-up process, the DoD provides various opportunities for the general public, stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs) where interested party questions and concerns may be communicated. Comprehensive actions (e.g., BMPs, SOPs, etc.) would protect public health, welfare, and the environment from adverse impacts associated with the use of hazardous substances.

J-015-115

Thank you for your comment. Sinkholes that are large and remain on DoD (versus being filled) will be protected from any disposal of debris, but will not be cleaned out as part of the Guam/CNMI military build-up.

J-015-116

Thank you for your comment. The change in climate conditions caused by the burning of fossil fuels is a global effect, and requires that the greenhouse gas emissions analysis be assessed on a global or regional scale, not at the local scale of a city or an island. The proposed alternatives mostly involve the relocation of the military operations already occurring in the West Pacific region, therefore fossil fuel burning activities in the region are unlikely to change significantly.

		Vól	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	5- 165 296	6	14	2		BSP/GCMP	BSP/GCMP	this section appears to be mixing cultural resources with historic resources, which may be adequate for stateside consideration in homogenous areas (off Native American properties). For Guam, there is still a living culture that continues an affinity with sites beyond those listed on the NRHP. These lies should be recognized in the definition of adverse effect through the inclusion of restrictions on use or access to culturally sensitive sites to natives as an adverse effect. In other words, if the actions contemplated in this DEI's should restrict or deny access to cultural sites currently available to Chamorros, then a finding of adverse effect should be made.
J-015	- 16 6	6	14	11	14.2.2.1	BSP/GCMP	BSP/GCMP	Any properties that have not been previously evaluated would be assessed for eligibility for inclusion on the NRHP, if NRHP eligible sites are impacted, data recovery excavation would take place as necessary.
	298	6	14	14	14.2.3.1	BSP/GCMP	BSP/GCMP	Prior to any disturbance or excavation, work plans would be developed and reviewed by the appropriate HPO.
J-015	299	6	16	2	16.2.2	BSP/GCMP	BSP/GCMP	The annual number of vessels visiting the Port of Guam has decreased by 1,902 vessels over the period of 1993 to 2008. It is expected that the addition of up to 12 vessels per year transporting fuel for the power facilities above the average annual number of vessels visiting the Port of Guam would result in last than a significant import on marine transportation in Apra Harbor. It is disfingentuous to treat each type of added shipment related to these activities as separate. With the activities that will require an extra 12 fuel shipments per year would come many more ship arrivals to supply all the food and living needs for the added personnel. It is only the cumulative impact that is of concern. What is the impact of the fuel ships, the carrier arrivals and their associated escort ships, the marine training boats and ships, and the ship arrivals supporting the induced population addition?
J-015	300	6	21	6	21.3.2	BSP/GCMP	BSP/GCMP	the fact that they are fenced off from public entry, the Guan National Wildlife Refuge is not considered an accessible "publicy owned" wildlife refuge; therefore, it is not detarmined to be subject to the protective provisions of Section 4(f). This ignores the whole purpose of a refuge and overiary refuge. It is intended not just to protect habitat, but the wildlife that moves in and out of the refuge, and depends on the refuge. Because the wildlife mover from DOD to publicly owned land, the public also has a stake in the habitat that sustains their ability to survive. To dismiss the public's rights over their own living resources is, at best, arrogant.

Page 65

Overall global greenhouse gas emissions are likely to remain near the current levels on a regional or global scale, resulting in an insignificant impact to current global climate change trends. A more detailed discussion of climate change, inclusive of recent EPA regulations, is included in the FEIS. Although it is still an appropriate assessment statement, the sentence "Individual sources are not large enough to have an appreciable effect on climate change" will be removed. Volume 7 contains an assessment of potential impacts from climate change.

J-015-117

Thank you for your comment. Sentence was removed.

J-015-118

Thank you for your comment. The FEIS has been modified to include a discussion of the impacts to the use of the NWF by HC-25 and identifies potential mitigation for scheduling and activation of the proposed Special Use Airspace.

J-015-119

Thank you for your comment. There is an existing trail on NCTS Finegayan property accessible by military personnel (their dependents and guests) that terminates at Haputo Ecological Restoration Area (ERA). The general public may access the ERA through public/private properties. Additionally, the Guam National Wildlife Refuge (GNWR) spans over three properties: Andersen Air Force Base, NCTS Finegayan, and Dededo. The part of GNWR accessible to the general public is referred to as the Ritidian Unit. The EIS has been revised to clarify these points.

J-015-120

		Vol	Çh	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	301	6	2	2-26	fig2.2.1	BSP/GCMP	Torres	Proposed Water System Components The map shows replacement of water mains along some of Gusm's busiest routes, including routes 1, 8 and 16, does this involve learing up the roads to lay the main lines? How does DOD intend the adverse impacts on traffic during construction?
J-015	- 170 302	6	2	2-59		BSP/GCMP	Torres	Water Supply To the maximum extent possible well locations should be located outside of the Primary Limestone forest or endangered species habitat areas. If not possible all possible mitigation measures should be taken to ensure the most minimal adverse effects possible.
J-015	-12:1	6	8	8-14-8- 42		BSP/GCMP	Torres	Related Actions Roadway and Utilities There is No Map to relate the areas listed in potential noise impacts to alternatives and regions examined. This would be extremely helpful in analyzing impacts. This should be provided.
	304	6	8	8-45	para2	BSP/GCMP	Torres	Nothing is said about the potential impacts the sound walls may have on movement of people from residential areas to readways to cross to the other side and other potential effects. Provide such analysis and potential mitigation measures.
J-015	5- 172 305	6	10	10-9		BSP/GCMP	Torres	Operation The DEIS proposes a new sewer on non-DOD land which is can be assumed an adverse impact especially if the land is being taken for a utility easement without just compensation. Even then it may also still adversely affect a landowners plans on using their properly. The paragraph proposes "utility easement acquisitions". Does this mean DOD will purchase the Land from non-DOD owner? It is, this should be more explicitly stated and what other mitigation measure may be employed. For example will the landowner be able to connect to the sewer?
J-015	306	6	10	10-10	para2	BSP/GCMP	Torres	The statement that "Basic alternatives 1a & 1b would result in LSI to land use because the acquisition of new utility easements on non-federal land" is flawed. Land use by non-DOD landdowners could be constrained by severing help roporaties in way that hampers use of their tand. The preceding paragraphs mitigation measures should be employed and this statement removed.

Page 67

Thank you for your comment. The EIS section refers to the existing recreational resources at Navy Barrigada.

J-015-121

Thank you for providing your comments and opinions against the military buildup. The military secures its bases and property primarily to protect its facilities, personnel, and other assets; this is typical of military bases everywhere, including the U.S. mainland. Access to and through military property would be provided and in many cases access is allowed to use or visit recreational and cultural resources. These issues on base security, public health and safety, and access will be emphasized in the FEIS.

The military base, in itself, is a community. It includes military personnel, housing for the military and their dependents, medical and dental facilities, discount stores, recreational areas, and schools. These are provided for the benefit of the military personnel and their dependents. The cohesion of the military base, like any social group, is based on the similarity of their jobs and duties, objectives, age, situation, and other military affiliation. Subsequently, their similarities and benefits within the base are not the principal reasons for what appears to be "a separation" from the local community." Logistically, having housing within a contiguous base allows military personnel to be available should an emergency situation arise and immediate military action is required. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

•		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-015	- 174 307	6	10	10-13	para1&4	BSP/GCMP	Torres	Four non-residential and 51 residential units will be relocated by roadway impacts associated with the milliary buildup. Where are these areas or units? It is not shown. Have the owners been notified of this possibility? This is a significant impact and showld be mitigated. Provide map and put more explicit statement regarding this adverse impact of the undertaking.
J-015	308	6	4	4-12		BSP/GCMP	Torres	Roadways it should be mentioned here and in the recreational impact sections that Andy South roadways from route 1 have become extremely popular waking/running exercise route for local residents for many years. The same can be said for the old road to the FAA housing in Dededo and Nary Barrigada roadways through the housing by the goif course. How can the military miligate or replace the loss of this recreational resource which locals have come to depend on and utilized for many years or can the use remain as is and sanctioned as acceptable use?
J-015	309	6	12	12-11	12.2.3.2	BSP/GCMP	Torres	Basic Alternative 2 AAFB and Andy South Construction Just because no "primary limestone forest" will be removed does not mean the action is a LSI. Secondary limestone forest is also an important resource as its recovery to a primary one is part of the overal strategy to preserve the limited primary limestone forest resources. Mitigation for impacts on the limestone forest should include secondary limestone forest that fits Green Infrastructure criteria for recovery of this resources.
J-015	310	6	12	12-15	12.2.4.1	BSP/GCMP	Torres	Wastewater, 12.2.4.1 Construction is there really a need to lay a new seworline from the former FAA parcel to the NDW/WTP-Can the sewore be pumped along existing sewerlinea? Can existing sewerlines in existing utility easements be ungraded? Laying of this new sewerline easement will rowth in turther taking of Ancestral Land Bank Trust lands and private property, in effect another taking of land. Besides potential impacts to the environment it may also have other adverse effects to land coverse such a severing the land as to make some part of it less valuable. It also may have pendicial effects if the land owners agree to such easements and are allowed to utilize them.

Page 68

J-015-122

Thank you for your comment.

J-015-123

Thank you for your comment. It is recognized that total population number could be reduced, however these are not significant impacts if a large population still remains.

J-015-124

Thank you for your comment.

J-015-125

Thank you for your comment. The EIS has been revised to clarify that the existing and proposed on-base resources and facilities would be accessible to present, incoming, and retired military personnel, their dependents, and their guests.

Qualitative assessment of potential impacts to the existing recreational resources on Government of Guam property (under the care of Department of Parks and Recreation), DoD properties, and Federal properties (National Parks Service) were made on an island-wide scale. In researching the existing recreational resources on Guam, it was learned that both Government of Guam Department of Parks and Recreation nor DoD bases maintained visitor numbers to each recreational resources; only Andersen Air Force Base (AFB) and the National Park Service (NPS) did. The data obtained from Andersen AFB or NPS do not forecast future impacts, but rather, mere records of the number of visitors received for their facilities. It is recognized that quantitative island-wide assessment of the existing recreational resources would serve multiple beneficial purposes: determine baseline conditions and carrying capacity of each resource, as well as to formulate a plan to manage each resource. With this concern in mind, a

		Vol	Ch	Pg	Line, Tb1, Fig	Örg	Commenter (last name)	Comment
J-015	- 178 311	6	13	13-2	para2	BSP/GCMP	Torres	The paragraph state the Navy is "conducting a study to evaluate impacts on water quality and the marine environment from the GPA dis., must mean GWAN DMWWTP wastewater discharge at its new ocean outfall." This study and its results should be part of any final EIS on the proposed project and further decisions on how to upgrade the sewage system associated with the proposed buildup.
J-015	179	7	1 1	16	1.3.1	BSP/GCMP	BSP/GCMP	The highest point in Guam is Mount Lamlam, which is 1,332 ft (406 m) above sea level. Since it extends into the Wariana Trench, it is also considered the tallest mountain in the world from below sea level.
J-015	- 180 313	7	. 1	16	1.3.2	BSP/GCMP	BSP/GCMP	It does receive large transfer payments from the general revenues of the U.S. federal treasury into which Guam pays no income. This is not allogether a truthful stakement. The people of Guam pay taxes as dictated by the federal government - and therefore they do pay federal taxes. That the federal government then returns these monies to the Guam treasurer does not after the fact that it is a federal tax.
J-015	- 181	7	2	4	2.1	BSP/GCMP	BSP/GCMP	Add Dec. 2009 USEPA guidance: Section 438 of the Energy Independence and Security Act of 2007 reads as follows: Section 438. Storm water runoff requirements for federal development projects. The spensor of any development or redevelopment project involving a Federal facility with a Footprint that exceeds 5,000 square feet shall use site planning, design, construction, and maintenance strategies for the property to maintain or restore, to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the temperature, rate, volume, and duration of flow. (per page 13, Section D. of Technical Guidance on implementing the Stormwater Bunoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act.
	315	7	2	18		BSP/GCMP	BSP/GCMP	Management must include policies and practices to manage the 95% rainfall and to (attempt to) achieve a zero loss/zero gain stormwater flow into surface waters, as well as to return to the extent cossible to the ovarop
J-015	-182	7	2	22	table 2.2.1	BSP/GCMP	BSP/GCMP	It might help reduce the feral pet problem by ensuring that all pets brought into Gusm are certified spayed or neutrend. Many of the feral problems arise from a transient community that leaves pets behind.
r	317	7	2	23	table 2.2.1	BSP/GCMP	BSP/GCMP	Add: extinguish dredge operation lighting during coral spawning period.

Page 69

mitigation measure is suggested in the EIS for a carrying capacity study to be performed. Data gathered for the carrying capacity study would be used to develop a baseline (i.e., carrying capacity for a recreational resource) and appropriate mitigation measures would be included in resource management plan to be developed.

An increased permanent population near the golf course (sole recreational resource at Navy Barrigada) may bring more users (i.e., walk-ons) as the result of the proposed action. Reduced availability of tee time, by retired and current military personnel would likely result. To alleviate this impact, a wide range of recreational alternatives on Main Cantonment would be available. The EIS has been revised.

J-015-126

Thank you for your comment. As part of the National Historic Preservation Act (NHPA), the DoD has consulted with the public and mutiple interested parties including the Advisory Council on Historic Preservation, Guam State Historic Preservation Officer, CNMI Historic Preservation Officer, the National Park Service, Department of Chamorro Affairs, Guam Museum, Guam Preservation Trust, National Trust for Historic Preservation, interested individuals, and other groups. Ten public meetings under NHPA were held on three islands in order to reach out to the people of Guam and CNMI. The many comments, suggestions, and concerns heard during these consultation meetings helped shape the PA.

J-015-127

Thank you for your comment. Native forest plantings are being planned for conservation areas being established at Andersen AFB and at the Naval Magazine. These plans are being discussed with the U.S. Fish and Wildlife Service and this information will be provided in the final EIS.

		Vol	Ch	Pg	Line, Tol. Fig	Org	Commenter (last name)	Comment
	318	7	2	23	table 2.2.1	BSP/GCMP	BSP/GCMP	Add: where possible, relocate corals from impacted areas to other, nearby sites.
J-015 J-015	-183	7	2	30	2nd para.	BSP/GCMP	BSP/GCMP	The DoD has limited authority to implement mitigation measures on non-DoD land.
J-015		7	3	19	table 3.3-18	BSP/GCMP	BSP/GCMP	It is not fair to say that there would be no significant impact on land-use (non-DOD) with the preferred alternatives for solid waste. The use of the Layon land-fill by the DOD will significantly shorten the life span of that gov@uam owned land-fill.
	321	7	3	19	table 3.3-18	BSP/GCMP	BSP/GCMP	It is not correct to say there will be no impact on the use of non-DOD submerged lands. The leasing or purchase of private lands for the fitting rangus near Route 15 would create new restrictions on access to and use of the waters and submerged lands within GovGuam jurisdictional waters adjacent to the site. This should require, at least, compensation.
	322	7	3	20		BSP/GCMP	BSP/GCMP	A beneficial land use impact was identified under submerged land use because an existing firing range at NCTS Finepayan would no longer be used and the associated surface danger zone over submerged land would be eliminated. Comparisons with that submerged land and the route 15 submerged lands must be made. If the Finepayan submerged lands are currently under federal jurisdiction, then entry and harvesting can still be more restrictive than in state jurisdictional waters. Are the resources the same in the two areas? Is the amount of area under restriction the same between the two areas? The federal government already claims approx. 1/3 of all Coumr's state waters—a claim not made anywhere oise within the U.S. To control an additional submerged lands acreage in state waters is a move in the wrong direction.
J-015	-186	7	3	25	3.3.8.3	BSP/GCMP	BSP/GCMP	recreational opportunities would also be lost for beaches and near shore activities in the Pagat area (firing range)
J-015	5- 187 324	7	3	46	3.3.1.3.1	BSP/GCMP	BSP/GCMP	If the number of containers per ship remains the same as during the period of 1995 through 2008 (average of 705 containers per ship), there would be approximately 269 container ships visiting the Port of Guam during 2015. Does this average include containers moving between Guam and CNMI on barges? If so, there numbers would be sowed since more containers will be arriving at Guam with no equivelent increase in barger tenffic to CNMI.

Page 70

J-015-128

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-015-129

Thank you for your comment. Social impacts are discussed in the Socioeconomic Impact Assessment Study (SIAS) that is Appendix F, Volume 9 of the Draft EIS. It discusses the impacts of the proposed action to the social services, facilities, and other resources. There is an Executive Summary in the SIAS that identifies the impacts to the social services. If the maximal population increase is assumed to occur, a number of social services (e.g., public schools, health care, police, fire) would need to be improved and supported for the increased population. On the other hand, there would be an increase in taxes collected, license and user fees that would increase revenue to the government of Guam. The increase in revenue to Guam would likely offset some of the needed services. The Final EIS will include additional mitigation measures that could be taken to minimize impacts. The DoD will continue to pursue mitigation measures to ensure that adverse impacts can be avoided and/or reduced.

The FEIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social

		Vol	. Ch	Pg	Line, Tol, Fig	Org	Commenter (last name)	Comment
J-015	- 188 325	7	3	57	table 3.3-38	BSP/GCMP	BSP/GCMP	It is easy to look at figures like 79,176 and not be impressed, but by comparison the projected increases in population in 2014 and 2019 are the equivelant of putting 23,750,000 new residents in California in a two year period, and then removing almost 14,000,000 almost ownight. The population increase and their impact on a relatively small inland cannot be overstated. In addition, the amount of tand being developed in these proposals is equivelant to developing 4,250 square miles of California within a five year period.
J-015	-189	7	3	64	last para.	BSP/GCMP	BSP/GCMP	just compensation for their property. This is not as simple as stateside acquisitions may be. Some of the land to be acquired is family lands that extend into the hundreds if not thousands of years past. Family lands are not held in the same way as properties with monetary values, and therefore lary forced acquisition could not possibly result in Just compensation.
J-015	327	7	2	2.4		BSP/GCMP	Torres	Summary of Best Management Practices, Stormwater Management Plans – Item 2 The DOD should make the use of Filtration of Stormwater through plant and organic filtration methods more of a priority. Something also needs to be said about how the stormwater generated from the firing ranges will be hancled. Constant shooting at dirt berms does not allow for any vegetation to grow. There are accordingly berms that have been designed for firing ranges that can minimize stormwater runoff. The use of these or other types of best management practices to reduce erosion runoff should be spelled out in the DEIS.
J-015	-191	7	2	2.6		BSP/GCMP	Torres	Low Impact Dev: (LID) Says "the Navy could implement LID design technology". Due to the size of the proposed development the utilization of LID should be implemented as much as reasonably possible.
[329	7	2	2.6-7		BSP/GCMP		Water conservation Education of Military population should be given a high priority as this may be key to water conservation.

Page 71

services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-015-130

Thank you for your comment. Volume 5, Chapter 18 discusses the potential public health and safety impacts of as a result of population growth associated with the Army AMDTF. Based on the small buildup associated with the Army AMDTF, less than significant impacts are anticipated to public health and safety. Volume 5, Chapter 16 discusses the potential impact of an increased patient to health care provider ratio as a result of population growth associated with the Army AMDTF. Potential cumulative effects of the Army AMDTF action with other build up actions is addressed in Volume 7.

The FEIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-015-131

Thank you for your comments. Specific members of the Army AMDTF are not relevant to the analysis. Proposed project activities are situated

DOD Dreft Environmental Impact Statement Comments by Guam Coastal Management Program/Bureau of Statistics Plans February 17, 2010

		Vol	Ch	Pg	Line, Tbl. Fig	Org	Commenter (last name)	Comment
J-01	330	7	2	2.10		BSP/GCMP	Torres	Munitions and Explosives of Concern Nothing is said about how the proposed impacts of the firing range on the Naval Magazine and Pagat area will be mitigated. We are assuming dirt berms will be utilized to catch rounds fired for all types of weapons but this is not mentioned. How will stray rounds be dealt with? Will there be occasional search and clean up for these? Will munitions of the type that fall to explode after launch be utilized eg. Motra or rocket propelled grenades? What happens if they do not explode? How will they be cleaned up or neutralized?
	331	7	2	2.10		BSP/GCMP	Torres	Land Use: Planning and Project Design Incorporate green infrastructure concepts into the Land Use Planning Design Process. For example, preserve green belts to connect core natural resource areas. This also applies to Natural Resource Management in next section of BMP.
	332	7	2	2.16		BSP/GCMP	Torres	Noise Abatement "Berms could be built and adjacent to live Fire Training Ranges". Shouldn't berms be built as part of firing range design to contain rounds from small arms rounds? If they also serve an effective method of controlling noise then they should also be placed where most effective.
	333	7	2	2.19		BSP/GCMP	Torres	Reduced Use of Water Education of military personnel and families cited in the previous BMP section is left out here. This should be part of the strategy.
	334	7	2	2.21		BSP/GCMP	Torres	Water Resources within DOD Control WR-3 "Attempt to avoid impacts to potentially jurisdictional cave and pool systems." Advance of impacts to such resources should be taken regardless of who has jurisdiction to them.
	335	7	2	2.21	LU-2	BSP/GCMP	Torres	Mitigation should incorporate green infrastructure into Land Use Design Plans
4	336	7	2	2.21		BSP/GCMP	Torres	Recreational Resources within DOD Control As a mitigation measure the DOD should open public access to recreational resources on lands controlled by DOD. For example portions of the Glass Broakwater up to the where Luminax Reaf meets the Breakwater should be opened for public use. The Recreational resources there include the surf spot known as Magandas, and the fringing reaf lagoon for snorkeling and fishing. Additionally open places on Naval Magazine like the trails to Mt. LumiLami Jumulong Manglo.
	337	7	2	2.22	RR-5	BSP/GCMP	Torres	The potential impacts to sailing and other water sports by the carrier visits is not addressed here. How can those impacts be reduced?

Page 72

on military land. A summary of the Weapons Emplacement Sites can be found in sections 2.3.2.3 and 2.3.3.2. The environmental impacts of weapons emplacement sites are analyzed in the Classified Appendix. A summary of the weapons emplacement sites is provided at the end of each resource chapter of Volume 5. Contractors are not foreign workers. Hazardous materials and waste management procedures are described in Chapter 17.

J-015-132

Thank you for your comment. Definition for Class D airspace has been added to Chapter 7 (Airspace).

J-015-133

Thank you for your comment.

Geotechnical surveys will be conducted prior to construction at all sites in association with project planning. A Record of Decision (ROD) is needed before proceeding with the proposed action.

Planning is avoiding hazardous conditions. The DEIS does not plan for the worst, it analyzes the impacts based on facts that are provided.

J-015-134

Thank you for your comment. The Final EIS contains updated information reflecting additional investigation of potential wetland areas. The investigations were conducted in accordance with standards commensurate with the methods used.

J-015-135

Thank you for your comment. Climate change is a global effect that should be addressed on a regional or global scale. CO2 is not considered a pollutant that has direct health effects as compared to

DOD Draft Environmental Impact Statement Comments by Guarn Coastal Management Program/Bureau of Statistics Plans February 17, 2010

		Vol	Ch	Pg	Line, Tbi, Fig	Org	Commenter (last name)	Contrient
J-01	- 193	7	2	2.22	tbl 7	BSP/GCMP	Torres	Local resource and recreation agencies and groups that utilize these areas should be consulted/irrorhed to develop any future restrictions. Staxeholder input should be taken into consideration! For example any restrictions to access will affect the local community who forage for certain select plant species leaves for medicinal purposes.
	339	7	2	2.22	tЫ 11	BSP/GCMP	Torres	The scheduling for the Fire Management Plan should have local input for the new proposed areas if implemented. Public Access to cultural and geological resources at Pagat are important and stakeholder input should be gathered prior to any proposed restrictions.
Γ	340	7	2	2.22	tbl 24	BSP/GCMP	Torres	Any establishment or expansion of ecological reserves should involve local resource agency consultation and input.
- 1	341	7	2	2.23	tbi 29	BSP/GCMP	Torres	Incorporate green infrastructure concepts.
	342	7	2	2.23		BSP/GCMP	Torres	The Government of Guam will be acquiring satellite imagery shortly. This up to date imagery will be utilized as a baseline of the Terrestial and Marine Biological resources that exist on island prior to the main military buildup. DOD should acquire satellite imagery of the same type or one that meets resources agency needs after the buildup has been completed for the agencies to utilize to adequately determine overall impacts of the . Buildup to natural resources.
	343	7	2	2.23-24	CR-1 - CR-	BSP/GCMP	Torres	As much as reasonably possible site names should be used to identify sites to make the connection to the cultural places.
	344	7	2	2.28	SE-1	BSP/GCMP	Torres	This militarion measure should really be explored and implemented as it may reduce adverse effects of such a significant increase unpopulation on such a short time frame. Military plunners themselves have admitted that the time frame for this project is to aggressive.
	345	7	2	2.28	SE-3	BSP/GCMP	Torres	This is definitely a miligation measure that DOD should implement. Direct support through funding for pursuing such funds should be part of the assistance.
	346	7	2	2.28	SE-10	BSP/GCMP	Torres	Education should include other migrant worker ethnic groups, that comprise the build-up workforce.
	347	7	2	2.33		BSP/GCMP	Torres	Adaptive management techniques should be considered for some of the Natural Resource management concerns. For example Terrestriat and Biological Resource Mitigation measures may need to be adjusted to fulfill the goals of mitigation.
	348	7	2	2.44	para2	BSP/GCMP	Torres	Definitely recent weather trends, forecasted weather patterns, and known seasonal variations should be taken into consideration in the forecast for water supply.

Page 73

those criteria pollutants. Therefore, there is no specific standard that can be used to evaluate localized impacts. Volume 7 of the FEIS contains a discussion of climate change and greeen house gas impacts. The relocation of Army AMDTF would involved limited earth disturbance and road and facility construction activities. Such an action is anticipated to be similar to other development construction project currently occuring in Guam with minimal air quality impact. Moreover, the associated emissions forecast was made by using the most recent regulatory planing tools that are typically considered conservative. Therefore, it is believed that the emissions from various construction and operational activities were reasonably predicted as per the NEPA process.

J-015-136

Thank you for your comment. Sentence was removed.

J-015-137

Thank you for your comment. As of March 10, 2009, the Government of Guam, Department of Park and Recreation did not have a record of visitor counts to the recreational resources it manages.

J-015-138

Thank you for your comment. Based on biological surveys conducted in the Barrigada area, minimal native vertebrate wildlife is present in the forests that would be removed. There would be no displacement of large numbers of individuals of native species.

J-015-139

Thank you for your comment. Several sections of the FEIS have been revised since the DEIS to clarify issues.

J-015-140

Thank you for your comment. The final design of roadway and

DOD Draft Environmental Impact Statement Comments by Guam Coastal Management Program/Bureau of Statistics Plans February 17, 2010

		Vol	Ch	Pg	Line, Tòi, Fig	Org	Commenter (last name)	Opinment.
J-015	349	7	2	2.48	2.3.55	BSP/GCMP	Torres	Potential impacts and mitigation Para 1, This area of NDWWTP is heavily utilized for fishing and recreation. Any delays in mitigation measures to reduce impacts would have a significant effect on socio-economic uses by the local population. Priority should be high in addressing the impacts of this shortfall and to adequately address the potential for water quality degradation.
	350	7	2	2.49		BSP/GCMP	Torres	Bullet points 3 & 4 to divert wastewater to other treatment plants. What is the capacity of those other treatment plants? Are these mitigation measures realistic based on the capacity of those other plants? Bullet Point 5 to utilize a cruice ship or hotel barge for construction workers. Has this mitigation measure been well throughout? The waste from the ship or barge will still have to be treated and sent to a plant. There also may be other impacts of this mitigation measure.
	351	7	2	2.56		BSP/GCMP	torres	Consideration should be made for seasonable changes to construction tempo for the wet/dry season. Less ground disturbance the wet season could result in less erosion and sedimentation from runoff.
J-015	352	7	3	3.3, 3.33.2		BSP/GCMP	Torres	Geological & Soil Resources A less than significant impact for Topo, Geology, Soils and Geologic Hazards is given here including Finagayan in Table 3.3.1. However, para 1 does say that there will be significant impact at Finagayan. The Geologic Map and sections of Guam, Marianas Isa. 2007 shows thrust faults and limestone with cavernous and generally porous limestone in Finagayan. What is the correct determination of effects? It seems to us that significant effects of the project will result with potential adverse effects to groundwater and nearshore coastal resources.
	353	7	3	3.7	tbl 3.3.5	BSP/GCMP	Torres	Groundwater impacts are said to be less than significant (LSI) in this table in direct contradiction to the previous page 3.6 which says "increased groundwater production could potentially impact acree and pool water levels; potential impacts to the system could require review and/or permitting by U.S. Army Corps of Engineers. An independent review by water engineers at UCG/WERI or another local firm should be conducted.
	354	7	3	3.33	tbl3.3-25	BSP/GCMP	Torres	Potential impacts on Marine Flora and Invertebrates under the Navy Aircraft Carrier proposed undertaking is a Lase-then Significant Impact (LSI). How can that be? Please explain further as we disagree that it is a LSt.

Page 74

intersection projects will consider alternate modes of transportation including pedestrian and bicycle facilities as much as practical.

J-015-141

Thank you for your comment. Changes have been made to Volume 6 to include requirements for aircraft flying from Anderson AFB to continue to follow existing procedures restricting overflight of federally endangered Mariana crow and Mariana fruit bat territories.

J-015-142

Thank you for your comment. DoD concurs with your comment and the Final EIS has been revised to reflect the potable water, wastewater, and solid waste demands from the transient ships prior to them going "cold iron." The only utility that these ships won't require would be power.

J-015-143

Thank you for your comment. Alternative energy sources were considered but discarded for baseload supply as this supply must be extremely reliable. Solar and wind are not reliable enough and there is no currently available economical power storage medium to augment them. Also alternative energy is very costly. Per the December 2009 "Watts & Volts" newsletter published by the IREA of Colorado, a very sunny state, "A recent study by Tufts University economics professor Gilbert Metcalf states, 'Solar power currently costs 3.5 to 4 times the price of conventional power,' but when stripped of subsidies and preferential tax treatment, 'solar power is between 570 percent and 887 percent more expensive to produce than coal power." We realize coal power is not available on Guam, but this demonstrates that solar power is not cheap. Both solar and wind require duplicative investments, one for the alternative energy and another for the conventional backup.

DoD, however, is mandated to provide a certain percentage of power via

DOD Draft Environmental Impact Statement Comments by Guarn Coastal Management Program/Bureau of Statistics Plans February 17, 2010

		Vol	Ch	Pg.	Line, Tbl, Fig	Org	Commenter (last name)	Confinent:
J-015	355	7	3	3.39	pera3	BSP/GCMP	Torres	With regards to the bawks bill furtle, observation by local community supports the knowledge that there are more turtles in our waters than described here. They are also known to frequent Apra Harbor and many have been sighted by recreational saltors, interviews with more of the local community that frequent those areas such as the Marianas Yaoht Club should be conducted for a bester assessment.
J-01	5- <u>19</u> 7	7	3	3.4		BSP/GCMP	Torres	No Action Much of the discussion here focuses on the geology and soils of southern Guarn and not the type of geology of where the main marine centomment will be. This should be addressed. The geology of Northern Guarn especially where the Marines will be located should be the focus of lany description.
J-01	357	7	3	3.65		BSP/GCMP	Torres	Comparison of Preferred Alternatives to No Action It is said in Paragraph 1 that the "preferred alternatives would be felt on an island-wide basis and would be characterized by a sharp increase in activity and impacts (both positive & negative) in the 2012-2016 immeframe". All the Public Service Impacts starting on Pg. 3-60 all point to a need to increase the local governments staff in various agencies to address the Buildup. However, nothing is said about how the military will attempt to assist in handling this increase load. The lag time between when revenues start to increase to when the GovGuam can start hiring additional personnel will result in a chaotic situation where many services will not meet need. This needs to be addressed more fully especially with regards to how the potential adverse impacts by the shortfall will be miligated.
J-01	5-199	8	2	2.1	2.1-1	BSP/GCMP	De leon	CZMA Regulations should indicate/include provision of 15 CFR 923.33(b) Federal consistency review requirement regarding excluded lands.
	359	8	2	2-5	2-1-1	BSP/GCMP	De Leon	E.O. 2005-35 CNMI and Guarn Stormwater Management Manual should also indicate Guarn Environmental Protection Agency as Responsible Agency
. [360	8	2	3-6	3.1-1	BSP/GCMP	De Leon	Coastal Zone Management Act Federal Consitency Provision, 3rd Column should read Guam Coastal Management Program not Plan"
	361	8	2	page2-1	2.1.1	BSP/GCMP	De Leon	Corresponding Status of Compliance collumin must be corrected for CZAA. It is not true that " Consistency determination is prepared and submitted by Navy seeking concurrence from Guam Bureau of Statistics and Plans." The DODN'avy are required to follow the required timefor the Federal Consistency review. 15 CFR Part 303.

Page 75

alternative energy. So, for new installations, solar water heating and photovoltaics would be considered for new installations. Direct solar water heating on Guam is most likely the best alternative energy investment, but it must be done with hurricane resistance in mind. New DoD development would strive to achieve at least LEED Silver, requiring energy conservation be built into the new facilities. Conservation is the best alternative energy source!

Use of existing generating facilities would not exceed current permitted levels. Low sulfur fuel is utilized at Cabras/Piti units when the wind blows onshore. If air modeling results show air compliance issues, exhaust treatment or switching to other fuel such as liquefied natural gas would be considered.

Your observation regarding biofuels from section 2.1.3.6 is correct. However, this section is only on biofuels, not solar, so the introduction regarding solar hot water and photovoltaics is not understood. Biofuels were only considered if they could be locally produced as they are not currently commercially available. If biofuels become commercially available for import and if they offer advantages over diesel, it would behoove Guam Power Authority (GPA) to investigate their use. Currently, GPA's Integrated Resource Management Plan indicates the desire to switch to liquefied natural gas. That option was retained in the alternatives since it is currently viable.

Your observation regarding OTEC is appreciated. This technology is worthwhile to watch for potential long-term needs. As a by-product, it can also produce potable water. At this time, long-term alternatives are only presented at a programmatic level and would require additional NEPA review if they are pursued.

J-015-144

Thank you for your comment. The FEIS provides a detailed analysis of

DOD Draft Environmental Impact Statement Comments by Guarn Coastal Management Program/Bureau of Statistics Plens February 17, 2010

		Vol	Ch	Pg	Line, Tbl, Fig	Org	Commenter (last name)	Comment
J-01	5-3620	8	2	1	table 2.1-1	BSP/GCMP	BSP/GCMP	The boundary of a state's coastal zone must exclude lands owned, leased, held in trust or whose use is otherwise by law subject solely to the discretion of the federal government, its officers or agents. Except when actions taken on federal lands may impact non-federal lands!
J-01!	363	8	5	4	5.6.2	BSP/GCMP	BSP/GCMP	Compensatory financial mitigation is proposed to the land owners. The land owners do not own the submerged lands that will be impacted, those are under jurisdictional ownership of GovGusm - and significant compensation should be made for the public's loss of those public resources. The non- use of the Finegayan firing range complex, and the subsequent fitting of that facility's Surface Danger Zone over federally controlled submerged lands does not in any way mitigate for further laking of public lands
J-01	-202	8	2	5	2.2-1	BSP/GCMP	Quinata	Inclusion of GEPA as responsible agency to the Executive Order 2005-35 CNMI and Guam Stormwater Management Manual.
J-01	5- 203 365	8	5	6	5.10.2	BSP/GCMP	Quinata	Long term changes would include the direct loss and disturbance of archaeological sites and historic buildings and the long-term restriction from potential traditional cultural practices as a result of training and safety requirements relating to firing ranges. A miligation measure to consider is the access of culturally sensitive sites at least twice a month for Chamorros.
J-01	366	Gen			,	BSP/GCMP	Torres	in general, the DEIS classifies many of the Impacts associated with the buildup as a Less- than Significant Impact (LSI) or mitigated to LSI. Just this observation of the DEIS calls into question many of the other observations, figures, associated studies and other determinations in this DEIS. The pace of this massive buildup may be much too fast for the people of Guam and its social and natural systems to absort without adding much stress, chaos and destruction into their lives. The people, the Chamorro culture, and the environment stand to suffer greatly. Especially considering the potential tose of land and reefs to the proposed project. The loyal people of Guam are again not being treated fairly here and stand to lose the most in this endeavor. The construction tempo should be reduced and spread out over time and land not offered up for lease readily to the military should not be taken for their use.

Page 76

water demands from the direct DoD population, and the indirect population (construction workers and induced population). Refer to Volume 6, Chapters 2 and 3. All water demands are accounted for, both on-base and off-base, during the construction phase of the military relocation and after all construction is completed in 2019. DoD and GWA sources of water are counted in the FEIS when assessing the off-base shortfall that potentially could occur in the peak construction year of 2014.

As described in the FEIS, the total indirect off-base demand on the GWA

water system (including demand associated with the construction workforce and induced civilian growth) is projected to reach 50.6 MGd in 2014. That same year, the GWA water system would have the capacity to supply 42.4 MGd of potable water. Based on discussions with GWA, they plan to install new wells to meet expected baseline growth, adding an additional supply of 1.3 MGd. This results in a shortfall of water of 6.9 MGd. DoD has agreed to transfer water up to 7.0 MGd to GWA to meet this shortfall. This would include the continued transfer of 4 MGd to GWA under the current memorandum of understanding, 1.7 MGd from existing DoD wells, and the remainder from new DoD wells that would be installed early (new well capacity in 2014 will be 4.7 MDd). Funding to meet on-base DoD water demand is described in the FEIS and is expected to come from Government of Japan loans. Additionally, DoD proposes to transfer excess DoD water to meet anticipated off-base shortfalls during the military relocation construction period, and will also seek Government of Japan loans to provide interconnection between the DoD and GWA water systems. Funding for needed upgrades to the offbase GWA island-wide water system is not identified in the FEIS beyond what has already been identified in the GWA's Capital Improvements Program (CIP), and in a recent EPA Region IX assessment of GWA's CIP and companion conceptual cost estimate for 5-year and 25-year capital and operational needs. The FEIS provides information on GWA and GovGuam's ability to fund upgrades, including information on GovGuam's debit rating and history of funding shortfalls. DoD

FINAL SIAS Review Highlights-1

DRAFT EIS/OEIS GUAM AND CNMI MILITARY RELOCATION

Review of the "Draft Socioeconomic Impact Assessment Study"

Compact Impact and FAS Citizens

Section 1.2.2

J-015 years dees not receive federal funding in exchange for providing social and to Free y Associated States (FAS) citizens who have migrated here under the Compacts of Free tion, but as reimbursement for the cost to Guam from the General Fund to s to FAS citizens. The unreimbursed Compact Impact cost for the period from FY2003 totaled \$269 million according to the 2004 Compact Impact Reconciliation 2004 to FY 2009, the total locally funded cost for providing services to FAS citizeds was \$2\$1.5 million (unaudited).

Section 2.1.1.3

FAS citizens are expected to be a large percentage of the in-migrant labor force in addition to the Filipinos. Analysis should done using the available data on Guam's FAS population developing a proxy for the in-migrant population.

Section 4.4.3.4

ogical and staffing capacity issues do limit agencies' tracking of services ely Associated States (FAS). While proper tracking will better quantify the costs to the agencies, it will not increase Compact Impact funding. Currently, Compact Impact reimbursement is set at \$30M by law and distributed based on the percentage of all FAS citizens living in each "affected areas" (Guam, CNMI, Hawaii and American Samoa). This amount faction of the unreimbursed costs incurred by Guam and the other areas.

Housing

Section 4.3.2.2

J-015 206 3.3-22 of the "Draft Socioeconomic Impact Assessment Study" shows that the current number of vacant, for rent housing units is 1,915. This is based on the growth rate of the number of vacant units between the 1990 and 2000 Censuses. The number vacant units should determined independently to accurately describe the current status and compared to the number from the 2009 Guam Comprehensive Housing Survey

J-015-207 Section 4.2.1.2

In reviewing the "Draft Socioeconomic Impact Assessment Study (SIAS)", it is not the report how the number of dependents such as school-age children were calculated the assumptions made. No information is shown on the number of households, families, composition of in-migrants. In order to properly review the Draft SAIS, a documentation report showing how the numbers were derived is needed. The Draft bes the assumptions and the results, not how the assumptions are applied to

A description of who will comprise the "indirect/induced workers" and what sort of jobs they represent is lacking. Also missing is an analysis of the relationship between the represent is lacki "indirect/induced

Guam and CNMI Military Relocation DEIS/OEIS

acknowledges the existing sub-standard conditions of the GWA water system on Guam and the desire by many for DoD to fund improvements to these systems and services. DoD's ability to fund projects that are not within direct DoD ownership or control is limited by Federal law. However, DoD recognizes the need to identify and integrate solutions for both on-base and off-base utility infrastructure on Guam, and desires to minimize adverse impacts associated with the proposed military relocation program. To this end, DoD is serving as the lead federal agency on a multi-agency group charged with identify Federal programs and funding sources to make the necessary repairs and upgrades to Guam's utility infrastructure systems. Concurrently, DoD, EPA Region IX, GEPA, GWA and the CCU are working together to identify and integrate solutions for off-base water needs which meet environment requirements, provide reliable and uninterruptable service, and are affordable for all users. Even with an infusion of federal funds to fix the existing problems with the GWA water system, if there is no funding to keep the systems operated properly, maintained, and upgraded, the system will be unsustainable. This has even been acknowledged by EPA Region IX in its CIP assessment report. Both GWA and EPA state that the people of Guam should not have to carry the financial burden of supporting the military buildup. It is hard to argue with this position. However, what is not said is that the people of Guam should carry the burden of sustaining compliant water and wastewater systems required to ensure their health and well being. GWA's Water Resource Management Plan (WRMP) which was developed to achieve compliance with an EPA stipulated order, identifies projects required to correct \$200 Mil in infrastructure deficiencies that existed in the water and wastewater systems at the time the report was prepared. This estimate has increased after the preparation of the CIP. Very few of the deficiencies have been addressed to-date because GWA does not have the financial resources to address these issues. The Consolidated Commission on Utilities (CCU) and GWA continually push for a single water system on Guam. They feel that without the capital that would come from including

J-015,708 and the Government of Guam's "outside the fence" population increase

(primatily, on-matily, on-matily). The Draft SAIS has the "indirect/induced workers" increasing, then decreasing.

decreasing.
This would suggest that they are not the "outside the fence" population increase due to ecolomic

opportenities following the buildup.

Page 2

Guam and CNMI Military Relocation DEIS/OEIS

DoD into a single island-wide water system and infusing the significant capital that would come with a large, paying customer, they are unlikely to ever have sufficient capital to sustain a compliant water system. The reality is that even with DoD as a customer they will not have sufficient capital to sustain their water system without raising the water rates. The ability to sustain the water and wastewater systems will be a topic of discussions with GWA, CCU and EPA in early March 2010. Without a continuous influx of federal funds to support daily operations, GWA cannot sustain their current systems. Hence the fundamental problem that will not be fixed by a huge infusion of federal funds to correct all of the ills of the GWA water and wastewater systems. GWA's rate base is not sufficient to sustain its system. If the user rates are not increased to a level that will allow GWA to sustain their systems, in a matter of just a few years the systems will be back to a state of total disrepair and require another large infusion of federal money. Guam is unwilling to require its users to pay what is required to sustain their water and wastewater systems at a level that will ensure their safety and well being. So either the rates have to be increased or EPA needs to find a continual source of funds to support routine operation and maintenance of the GWA water and wastewater systems.

J-015-145

Thank you for your comment. Interim Sustainable Yield Assessment: DoD agrees that protection of the sole source NGLA is imperative. The FEIS discussed the two available estimates of the NGLA that have been published, one by the Northern Guam Lens Study (NGLS) (CDM 1982) and one by Barrett Consulting with John Mink (Barrett 1992). The CDM 1982 study estimated the sustainable yield of the NGLA as 57.5 MDd, and the Barrett 1992 study estimated the sustainable yield as 80.5 MGd. University of Guam (UoG) Water and Environmental Research Institute (WERI) provided an expert technical review for DoD of the two sustainable yield estimates for the NGLA in 2009. The study concluded

that the approach and methodology used in Barrett 1992 to estimate the sustainable yield are still valid and are appropriate for initial planning; and the Barrett 1992 sustainable-yield estimates should be used instead of the earlier 1982 sustainable-yield estimates because the later values are based on an additional decade of field data. Additionally, this expert communicated that the additional data that had been gathered from the NGLA since the 1992 study would not likely change the sustainable yield estimate for purposes of the FEIS because the data collected was from sub-basins of the aquifer that are not located where DoD proposes to withdrawal water. Therefore, the FEIS uses the Barrett 1992 sustainable yield estimate of approximately 80 million gallons per day. However, it is important to note that the estimated total average daily demand from the aquifer for all sources (DoD and non-DoD) during the peak construction year of 2015 is 50.33 MGd, which is below both sustainable yield estimates. Volume 6, Chapter 2, Section 2.2.4.1 and Chapter 3, Section 3.2.3.1 discuss this in detail. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and

through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aquifer and development of a 3-D model, and will help guide decision-making during well installation. It is also important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS.

Long-term Comprehensive Aquifer Study: DoD has already committed funds to conduct the NGLA 3-D model. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the

parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aquifer and development of a 3-D model.

Global warming & sea level rise: Volume 7 of the FEIS includes a discussion of global warming effects, including on the aquifer.

J-015-146

Thank you for your comment. We will make sure that extending wastewater treatment plant outfalls below the reef level is listed as a potential mitigation to coral reefs in Volume 6, Chapter 13.

J-015-147

Thank you for your comment. The estimated additional truck traffic to Layon landfill will not have a significant impact to traffic congestion or condition of the existing pavement. When considering impacts to pavement conditions or structural capacity, it is measured in equivalent single load axles (ESALs). Using your calculation of 12 truck loads per day, five days a week for 10 years results in roughly 100,000 ESALs. In general, pavements are designed for several million ESALs.

Roadways around the DoD sites have been studied and pavement strengthing and/or capacity improvement projects have been identified to reduce impacts from the overall build up. Route 4 improvements to accommodate the trucks going to the new landfill are part of Guam DPW's transportation improvement program.

Thank you for your comment. The Marine Corps will begin arriving in 2010 as shown in Table ES-2.

J-015-149

Thank you for your comment. The US EPA December 2009 "Technical Guidance on Implementing Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act" will be added to the list of environmental permits and approvals included in Volume 6, Chapter 2, page 134.

J-015-150

Thank you for your comment.

The Navy is preparing a Recycling and Solid Waste Diversion Study for DoD Bases, Guam that has established a diversion goal of 50 percent, not including construction and demolition debris. The Study is considering the following alternatives: 1) DoD would construct two refuse transfer facilities, one in northern Guam and one in Southern Guam; 2) DoD would implement a source separation recycling program at all facilities; 3) DoD would construct recycling center(s); and 4) DoD would construct a materials resource recovery facility.

J-015-151

Thank you for your comment. We understand from GWA that development impact fees have been authorized on Guam and will start on March 1, 2010. This may or may not generate enough funds in time for GWA to adequately repair/expand their water system prior to impacts from the proposed DoD buildup. DoD and GWA are working together to resolve this potential dilemma. Resolutions will be included in the final EIS.

Thank you for your comment.

J-015-153

Thank you for your comment.

Managed lanes is an option that should be explored by GovGuam to address future congestion.

Table 4.2-34 lists the anticipated levels-of-service at intersections for the No Build and Build alternatives. The FEIS identifies a number of roadway and intersection projects that if implemented will mitigate most of the traffic impacts related to the military build-up.

J-015-154

Thank you for your comment.

BMPs are discussed in greater detail in Volume 7 of the DEIS. The DEIS analyzes impacts based on normal conditions. In the event of a emergency, DoD will take action to minimize impacts to the environment.

J-015-155

Thank you for your comment. Comment noted, as it repeats what is said in the DEIS.

J-015-156

Thank you for your comment. The landfill being referred to in the comment is assumed to be the current Navy landfill at Apra Harbor. This landfill is located in southern Guam and near the ocean. It is unlikely that there would be suitable ground water available at this location. This

landfill is currently permitted for use. Should upgrading this landfill be deemed necessary, such upgrades would not be completed prior to when the new Gov Guam landfill at Layon is scheduled to be open. In addition the current data on groundwater has detected some chemical constituents assumed to be from this landfill but not at levels exceeding the maximum contamination levels allowed in groundwater. Further investigation is under way to fully assess what is happening with this Navy landfill. Further clarification has been added to the final EIS.

J-015-157

Thank you for your comment. The comment on row 285 is unclear, as the text provided is directly from the DEIS. In regard to the comment on row 286, alternatives to address traffic impacts would require further research. For hybrid vehicle the time spend in city traffic where there are frequent stops, coasting, and idling periods would have to be evaluated against continuous high speed highway use to determine actual fuel savings. Also the use of car air conditioning, especially in Guam's climate, may well limit the amount of wait time that would actually have engines shut down.

J-015-158

Thank you for your comment. The EIS statement pertains strictly to land use planning criteria. For example, GovGuam would not have land use zoning or policies that would direct the location of a new movie theater within military base. Siting options on base are developed by base planners in accordance with DoD land use plans.

J-015-159

Thank you for your comment. Please see response to J-015-026.

J-015-160

Thank you for your comment. It is true that no new uses in submerged

lands are proposed. The EIS includes an analysis of potential impacts to nearshore waters from effluent discharge.

J-015-161

Thank you for your comment. The Layon landfill will be a GovGuam facility. The impacts of the traffic on transportation routes to the landfill were addressed in the Environmental Impact Statement for Siting of Municipal Solid Waste Landfill Facility, Guam, July 2005.

J-015-162

Thank you for your comment. It is recognized that total population number could be reduced, however these are not significant impacts if a large population still remains.

J-015-163

Thank you for your comment. Selection of specific BMPs will be performed through agency coordination and permitting and will be identified and implemented on a site-by-site and activity-by-activity basis. The EIS describes numerous programs and actions that would be taken to protect surface waters and groundwater from stormwater runoff. DoD is also preparing a stormwater pollution prevention plan (SWPPP) and would apply for permits that regulate stormwater discharges during construction. The permit and plan is focused on reducing the amount of earth and soil that is exposed to stormwater during earth-disturbing activities (such as land clearing and grading), providing stabilization of soils during construction through the use of ground covers, and sediment ponds and traps/screens to reduce pollutants getting into storm runoff and from percolating into the ground. These plans also have specific requirements for containment of potential pollutants at construction sites (such as storage areas for equipment fuel). Once construction is complete, a SWPPP would be developed to control stormwater runoff

and infiltration from base operations. This is being done on a regional DoD Guam-wide scale, and has the involvement of Guam EPA.

J-015-164

Thank you for your comment. This chapter had been revised based on new peak flow estimates and refurbishment of the NDWWTP. Concentrations are anticipated to be less than the no-action alternative and cumulative 5-year loading is expected to be significantly less, even with increased flows over the no-action alternative, therefore comment No. 1, 2, and 3 are N/A for NDWWTP. The document has been reviewed and modified as appropriate based upon your comments. Increased flows to GWAs WWTP have been evaluated.

J-015-165

Thank you for your comment. DoD understands and recognizes the significance of access to cultural sites located on DoD property in Guam. Restricting access to certain DoD areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to DoD lands that contain cultural sites consistent with safety and operational requirements. Access will be granted at approved times such as when the lands are not being used for military training. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites. Stipulations for providing cultural access to Pagat is included within the Programmatic Agreement so that continued cultural access will be possible.

J-015-166

Thank you for your comment. These statements are Best Management Practices that would be followed prior to disturbance of archaeological

resources. The process of the development and approval of work plans before implementing mitigation measures is stipulated in the Programmatic Agreement.

J-015-167

Thank you for your comment. The impacts to marine transportation of the ships that would visit the Port of Guam associated with the relocation of the Marines from Okinawa to Guam is addressed in the EIS in Volume 4, Chapter 14 (Marine Transportation). Section14.2 presents the analysis of the impacts of the construction to be conducted in Apra Harbor and the impacts of the vessels that would be used to transport personnel, equipment, and supplies to support the proposed action. The impacts to marine transportation of the activities associated with the aircraft carrier berthing are addressed in Volume 4, Chapter 14 (Transportation). Section 14.2 identifies the impacts of construction and operations for the aircraft carrier berthing.

J-015-168

Thank you for your comment. In 1993, the desire to create the Guam NWR was established by a Memorandum of Understanding with the USFWS, Navy, Air Force, and GovGuam (GovGuam et al. 1993). In 1994, Cooperative Agreements were signed between the Navy, Air Force, and USFWS to establish the Overlay Refuge (Air Force and USFWS 1994; Navy and USFWS 1994). The Cooperative Agreements defined the management and administrative roles and responsibilities of the Navy, Air Force, and USFWS for the Guam NWR. The 1994 Cooperative Agreements provide a commitment by the Navy, Air Force, and USFWS for a coordinated program centered on the protection of threatened and endangered species and other native flora and fauna, maintenance of native ecosystems, and the conservation of native biological diversity in cooperation with DAWR, consistent with the national defense mission of the Navy and Air Force. Overlay Refuge lands are not Guam NWR lands but are lands managed in coordination

with the DoD and USFWS. However, the management actions on these Overlay Refuge lands, in accordance with the intent and purpose of the Cooperative Agreements, must be consistent with the national defense mission. In accordance with the Cooperative Agreement, the Navy is coordinating with the USFWS regarding potential impacts to Overlay Refuge lands on Navy lands (both historical Navy lands on Guam and Andersen AFB lands recently designated as under the jurisdiction of the Navy). The Navy and Air Force have and will continue to propose and implement listed species management actions on their lands that will benefit to the greatest extent practicable the recovery of federally listed species on Guam.

J-015-169

Thank you for your comment. Yes, of course this would require trenching in the roadways. The water line replacement would be scheduled to occur at the same time for roadway widening and/or stregthening. Traffic impacts and delays would be managed by typical traffic reroutes, temporary lanes, etc. Replacing water lines is a normal maintenance activity and should not require special discussion.

J-015-170

Thank you for your comment. DoD concurs with your objective. DoD is consulting with U.S. Fish and Wildlife Service and will be receiving a Biological Opinion from them that will address protection of endangered species. New wells for the most part would be located near existing roads to provide easier access, avoid animal habitats, be close to water mains, avoid areas of potential archeological and historical sites, and avoid areas that may contain old unexploded ordnance. All wells would be approved by GWA and permitted by GEPA. If any well locations would need to be in sensitive areas, mitigation would be carefully implemented. We feel that this approach would satisfy your concerns.

Thank you for your comment. As indicated in Volume 6, Chapter 8, for the north region, the impacted noise-sensitive receptors are shown in Appendix G-2. Appendix G-2 was inadvertently excluded from the DEIS and is included in the FEIS.

Soundwalls are designed to not infringe on roadway intersections, which are the locations where people typically cross streets. Also, soundwalls are designed to not block driveways with direct access to the road. Most soundwalls would be located at areas between the road and residential backyards. Most of these backyards have property fences and ditches that would prevent pedestrian road crossings even if the soundwalls were not built. Furthermore, during design phase, other factors such as views of impacted residence or recreational areas would be taken into consideration in determining the most appropriate noise abatement measures.

J-015-172

Thank you for your comment. There are two alternatives for wastewater that require new sewer lines: Alternative 1a and Alternative 1b. Both alternatives' sewer lines are either within existing utility easements or rights-of-way or aligned along existing roadways (Volume 6, Figure 2.3-3). Easements along roadways that do not currently have utility rights-of-way would be acquired. This applies to short segments of the both Alternative 1a and 1b sewer lines and would not interfere with existing or planned future land uses.

J-015-173

Thank you for your comment. Please see the response immediately above.

Thank you for your comment. The majority of the private land acquisitions are due to roadway widening along Route 25, Route 26 and Route 28. As these projects are further developed, the design will be refined to minimize the land acquisitions. Once there is a record of decision and the project is funded, the land acquisition process will begin. Should DoD determine that additional land is necessary to meet its requirements, DoD policy requires that it negotiate with affected public and private land owners in good faith, seek agreements to acquire desired lands interests and pay fair market value. Where circumstances exist that require resolution of issues such as ownership or value, procedures exist under eminent domain authority to resolve those questions. Eminent domain requires reimbursement at fair market value.

J-015-175

Thank you for your comment. Chapter 9, Recreational Resources, of the EIS documents the use of Routes 1 and 3 by walkers and joggers. Please note that the use of Andersen South and the Former FAA parcel for recreational purposes is not a by-right, as these are under DoD and Government of Guam and private ownership, respectively. The loss of access to these properties would not mean the loss of walking and running resources as a whole, since these uses may be found in adjacent properties.

J-015-176

Thank you for your comment. Impacts to secondary limestone forest are not considered significant for the vegetation category but secondary forests make up much of the habitat areas that are recovery habitat for threatened and endangered species and therefore removal of these areas is considered a significant impact. Conservation measures are proposed to avoid and minimize for these habitat losses. Currently planned conservation measures would include some areas that are secondary limestone forest.

Thank you for your comment. Wastewater flow from Finegayan base will be discharged to NDWWTP using a new relief sewer as recommended in wastewater utility study. The gravity sewer is considered to avoid pumping that result in higher O&M costs. The sewage can be pumped and routed along Route 3. This will impact traffic along route 3 during construction. The layout of the gravity sewer was not finalized. All the environmental effects will be considered before finalizing the layout. Also a study to assess the capacity of Route 3 sewer is underway and details of the study will be considered in finalizing the layout of the relief sewer.

J-015-178

Thank you for your comment. The document has been modified as appropriate based upon your comments.

J-015-179

Thank you for your comment.

J-015-180

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process. This information becomes part of the Final EIS and is evaluated when DoD prepares the Final EIS and issues a Record of Decision at the end of the National Environmental Policy Act (NEPA) process.

Text in the FEIS has been changed to reflect your comment.

J-015-181

Thank you for your comment. Please see the response to J-015-004.

J-015-182

Thank you for your comment. The Marine Corps recognizes the various

issues associated with household pets and has adopted a new order "Domestic Animal Control" (MCO 1000.22 Chapter 6, August 11, 2009) that would be applicable to the forces relocating to Guam. A few of the key points relevant to population control are: 1) Bachelors are not be allowed to have pets, 2) families are limited to 2 dogs, 2 cats or 1 dog and 1 cat, 3) all pets are to be registered with local veterinary treatment center, 4) vaccination and microchips are required and 5) spay and neutering is strongly encouraged but not required. The microchip requirement would deter abandonment, because the owners know in advance that they could be tracked. This order is added to Volume 8 and Volume 7 Best Management Practices table in the Final EIS.

One mitigation measure is no dredge operations during the coral spawning period, as identified in the Volume 7 mitigation table. No dredging lights would be required during coral spawning. The Army Corps of Engineers may attach additional conditions to the permit.

J-015-183

Thank you for your comment. Relocation of coral is being considered for inclusion in the compensatory mitigation plan that will be reviewed by the Army Corps of Engineers.

J-015-184

Thank you for your comment.

J-015-185

Thank you for your comment.

320. The new Layon Landfill is designed to accommodate municipal solid waste from all current and future DoD sources as well as civilian and commercial sources. Based on conservative waste generation rates, the new landfill will reach capacity in approximately 32 years. The DoD

will be implementing diversion and recycling programs that will significantly reduce solid waste generation and will help to extend the life of the landfill. Details of these programs have been added to Volume 6, Chapter 2.

The Navy is preparing a Recycling and Solid Waste Diversion Study for DoD Bases, Guam that has established a diversion goal of 50 percent, not including construction and demolition debris. The Study is considering the following alternatives: 1) DoD would construct two refuse transfer facilities, one in northern Guam and one in Southern Guam; 2) DoD would implement a source separation recycling program at all facilities; 3) DoD would construct recycling center(s); and 4) DoD would construct a materials resource recovery facility.

Additionally, the Navy has prepared a Construction and Demolition (C&D) Debris Reuse and Diversion Study for DOD Bases, Guam that addresses waste characterization, processing, recycling and disposal of construction debris. Information from this study has been used to update the FEIS.

The study is considering the following alternatives: 1) Contractors would continue to process all C&D debris, and DoD would construct a composting facility to process green waste and 2) DoD would construct a C&D debris central processing facility and a composting facility to process green waste.

Through project specific contractual requirements, DoD contractors would be required to process and divert 50% of C&D debris that is generated on each project. Another alternative would be for the DoD to construct a central processing facility that would be used to recover and reuse or recycle scrap metal, concrete (without lead-based paint), asphalt concrete, and untreated wood. Contractors would be required to haul C&D to this facility. Based on the C&D debris composition assumed

in the study, the Navy will be able to achieve a C&D debris waste diversion goal of greater than 50% by the end of fiscal year 2015. A site for the central processing facility is currently being evaluated but will most likely be located in northern Guam. Disposal of C&D debris that is not divertible or recyclable will be disposed at the Navy Hardfill at Apra Harbor. The study also evaluates the construction of a composting facility to handle green waste generated by land clearing activities required for new development.

- 321. The ownership criterion is based on whether land or submerged land is acquired under the proposed action. No acquisition of submerged land is proposed; therefore, there are no impacts on submerged land ownership. Under the land use criterion access is considered and the EIS identifies impacts to land and submerged lands in Volume 2, as summarized in Table 3.3-18.
- 322. There is no suggestion in the EIS that a beneficial impact on the west coast submerged lands would be comparable to or compensate for the impacts on the east coast submerged lands. Comparisons of affected environment of the two submerged lands areas are not relevant.

DoD acknowledges that maintaining access to submerged lands is important. Although plans concerning access have not been developed, it is not the intent of DoD to totally restrict access to submerged lands. DoD looks forward to working with stakeholders in developing plans for access that balance operational needs, public safety concerns, and the continuing public use and enjoyment of submerged lands.

J-015-186

Thank you for your comment. It is the intent of DoD to maintain public access to the cultural and historic sites at Pagat and Marbo consistent with safety and operational requirements. Restricting access to certain

DoD areas at certain times is required to maintain public safety. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

J-015-187

Thank you for your comment. The calculation of 269 container ships visiting the Port of Guam during 2015 includes commercial and military containers (see Volume 2, Chapter 14, Table 14.2-1). The number of commercial containers presented in the table includes the anticipated number of containers shipped from CNMI to Guam but not the number of containers shipped from Guam to CNMI.

J-015-188

Thank you for your comment.

J-015-189

Thank you for your comment. DoD acknowledges that the issue of land acquisition is a complex and sensitive issue, particularly related to prior acquisition of land in Guam by the federal government. Prior land acquisition policies and procedures are not reflective of current land acquisition laws and DoD policy.

DoD was required to determine whether military relocation requirements could be met by excess, underutilized or otherwise available property held by DoD on Guam. Early development plans attempted to keep all activities on existing DoD lands. However, as discussed in the FEIS (Volume 2, Chapter 2), after applying operational and environmental screening criteria, no contiguous DoD area on Guam was identified that could support all the land use and operational requirements of the action.

Should DoD determine that additional land is necessary to meet its requirements, DoD policy requires that it negotiate with affected public and private land owners in good faith, seek agreements to acquire desired lands interests and pay fair market value. Where circumstances exist that require resolution of issues such as ownership or value, procedures exist under eminent domain authority to resolve those questions. Eminent domain requires reimbursement at fair market value.

J-015-190

Thank you for your comment. The DoD and regulatory agencies are equally concerned about minimizing erosion and stormwater runoff, and preventing contamination of surface waters and groundwater (particularly drinking water aquifers). The proposed ranges will be designed and maintained in accordance with all applicable federal and Government of Guam regulations. Specifically, Military Handbook 1027/3B contains procedures for reducing potential impacts from ranges through the implementation of BMPs. These include introducing soil amendments, vegetation management, engineering controls, instituting contaminant monitoring, reclaiming, and recycling. The DoD will also consider other BMPs such as plant and organic filtration methods to minimize offsite impacts. Through the proper design of ranges, application of BMPs, and monitoring, the potential for erosion runoff, stormwater increases, and groundwater contamination would be minimized.

J-015-191

Thank you for your comment. DoD is committed to low impact development.

J-015-192

Thank you for your comment. DoD understands and recognizes the significance of cultural and recreational sites located on DoD property in Guam, and in particular those associated with the Pagat site. While the

Route 15 alternatives would not result in any adverse physical impacts to the archaeological sites at Pagat, concerns regarding access to the resources have been voiced. It is the intent during the final design phase to contain all rounds and effects within the footprint of the range through the use of berms and other media.

It is also the intent of DoD to maintain public access to DoD lands that contain cultural sites consistent with safety and operational requirements. Final plans concerning access to sites potentially impacted by the proposed action have not been developed, but the DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites. The DoD will also update the Pagat Preservation Plan and production of a Cultural Landscape Report covering the Pagat area.

J-015-193

Thank you for your comments. DoD recognizes the importance of reducing adverse effects on the people of Guam, its natural resources, and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short-term impacts of construction are managed effectively and that the long-term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

DoD understands and recognizes the significance of cultural and recreational sites located on DoD property in Guam. Restricting access to certain DoD areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to DoD lands that contain cultural sites consistent with safety and operational requirements. Access would be granted at approved times such as when the lands are not being used for military training. Final plans concerning access to sites potentially impacted by the proposed action

have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

BMPs and mitigation measures have been updated in the FEIS based on public and agency comments. A comprehensive list of mitigation measures is contained in Volume 7, Chapter 2. Mitigation measures are proposed in Volume 7, Chapter 2 that involve the timing and tempo of construction and arrival of Marines and their families.

J-015-194

Thank you for your comments. Volume 6 has been revised following public and agency comments on the DEIS. The volume further addresses impacts to NDWWTP. Volume 7, Chapter 2 has been updated with additional mitigation measures and the descriptions of mitigation measures involving construction tempo and timing of the arrival of Marines and their families have been updated.

The construction schedule does not allow for limiting work to dry season only. Stormwater management Best Management Practices would be implemented to be effective in dry and wet seasons.

J-015-195

Thank you for your comment. A less than significant impact has indeed been assessed as the result of development at Finegayan. Volume 7, Chapter 3, has been updated for consistency with the rest of the document. Determination of significance of impacts is discussed in Volume 2, Chapter 3, Section 2, Approach to Analysis.

J-015-196

Thank you for your comment.

Dozens of references, including surveys performed by federal and local agencies, have identified and labeled the low concentrations for the federally protected hawksbill sea turtles, as identified in the DEIS. As a note, due to the high concentrations of the federally protected green sea turtle in Apra Harbor and around Guam, mitigation measures and BMPs implemented to minimize potential impacts for these species in the area of the proposed action, will also protect hawksbill sea turtles.

J-015-197

Thank you for your comment.

While this section uses an example from Southern Guam, the No Action Alternative as a whole is referring to all of Guam, not only Southern Guam.

J-015-198

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The Final EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

Through the process of public involvement that has accompanied this proposed action, the Chamorro people of Guam have voiced clearly and concisely their concern that the traditional Chamorro culture, including dance, language and traditions, will be forgotten. While population increases can highlight cultural differences, they also present unique opportunities for cultural learning and sharing. As noted in the Final EIS,

the DoD plans for cultural sensitivity orientation and awareness programs will focus on mutual respect and tolerance and strive to educate all incoming and currently present military personnel on the rich and varied cultural history that has created the culture that is Guam today. Finally, the DoD plans to increase military civilian joint activities in order to foster strong and mutually beneficial military civilian relationships that include the sharing and understanding of culture.

J-015-199

Thank you for your comments.

- 358. Additional language on excluded lands is added to the Final EIS.
- 359. Guam EPA is added as responsible agency in the Final EIS.
- 360. The change from "plan" to "program" is in the Final EIS.
- 361. The status column is updated in the Final EIS.

J-015-200

Thank you for your comment.

J-015-201

363. Thank you for your comment. DoD acknowledges that maintaining access to submerged lands is important. Although plans concerning access have not been developed, it is not the intent of DoD to totally restrict access to submerged lands. DoD looks forward to working with stakeholders in developing plans for access that balance operational needs, public safety concerns, and the continuing public use and enjoyment of submerged lands.

There is no suggestion in the EIS that a beneficial impact on the west

coast submerged lands would be comparable to or compensate for the impacts on the east coast submerged lands.

J-015-202

Thank you for your comment. Guam EPA was added to the table.

J-015-203

Thank you for your comment. Please see response to J-015-026.

J-015-204

Thank you for your comment. The EIS process has included an assessment of using an adaptive management approach to reducing adverse impacts caused by the proposed military relocation program. Examples of extending the timeline for construction and/or relocation of Marines have been included in this FEIS. This information is included in Volumes 1, 6 and 7 of the FEIS. As you mention in your comment, the extension of the timeline for accomplishing the military relocation would reduce impacts as described in the DEIS, particularly those that are related to an expected rapid increase in population growth during the construction phase of the proposed program.

J-015-205

Thank you for your comments. The Final EIS has been updated to reflect the wording change you have suggested. The method of Compact Impact fund distribution from the federal government is not part of the proposed action and is not analyzed in the FEIS.

Based on your comments, one of the major concerns is funding. We have addressed the issue of funding in previous responses to your comment/comment table.

Thank you for your comment. Table 4.3-22 shows that the number of currently vacant, for-rent units is 1,915; this number was based on information from the Guam Bureau of Statistics and Plans. Data (MLS) from the Bank of Guam was also applied in the development of the estimation of currently available units.

Your recommendation has been considered and the estimation from the 2009 Guam Comprehensive Housing Study has been noted in the Final EIS.

J-015-207

Thank you for your comment. Assumptions have been identified and provided either in the text or in the explanations in the tables. Also, two scenarios are analyzed in the SIAS; the unconstrained (maximal) and constrained. The DEIS uses the unconstrained scenario because the higher numbers would create a greater impact.

The impacts on the Guam public school system are discussed in subsection 4.4.2, page 4-42 of the SIAS. Table 4.4-4 in the SIAS provides the potential increase (maximal) of student population in the Guam Public School System from 2010 to 2020. Providing a brief summary, at the peak population year (2014), a total of 7,937 students could attend the public school system; by 2017, when the operational (long-term) conditions occur, the students generated could be 909. This is based on the direct and indirect (induced) populations resulting from the military relocation. The military dependents would be educated in the DoD school system and should not affect the public school system. Money generated through taxes from the increased population and federal payments to schools (based on student populations) should provide revenue to fund resources for the public schools.

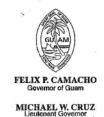
Numbers of in-migrating workers are presented in Section 4.3.1 of the

SIAS. Dependent ratios are presented in Tables 4.2.1 and 4.2.2 of the SIAS.

J-015-208

Thank you for your comment. Relating to the population figure of about 80,000 people; it should be noted the figure represents a maximal figure when most of the construction workers are still on Guam and the military populations arrive (2014); once construction is completed, the operational population would be about 33,400 (2016) (see the SIAS, Table ES-1, on page iii). Mitigation measures (as appropriate) to address the significant impacts will be discussed in the Final EIS. Population density if averaged over the entire Guam land area is expected to increase as a result of the proposed action; however, population densities are likely to be greater in some areas (i.e., Finegayan) and lower in southern Guam.

As you note, there would be an expected decline in economic activity as the construction phase of the proposed action winds down. However, all economic variables analyzed are expected to be at higher levels of benefit for every year in the foreseeable future than they otherwise would be without the proposed action. For instance, please note Figure 4.3-1 of the Socioeconomic Impact Assessment Study (Appendix F in Volume 9 of the DEIS), which shows higher levels of demand for labor during every year, with the proposed action, compared to the baseline trend which shows demand for labor without the proposed action.



PORT AUTHORITY OF GUAM ATURIDAT I PUETTON GUAHAN Jose D. Leon Guerrero Commercial Port GOVERNMENT OF GUAM

1026 Cabras Highway, Suite 201 Piti, Guam 96925



(671) 477-2683/85 Facsimile: (671) 477-2689/4445 Webpage: www.portofguam.com

February 16, 2010

JGPO c/o NAVPAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134

Attention: GPMO:

Hafa Adai! Enclosed are the Port Authority of Guam's comments on the Draft Environmental Impact Statement/Overseas Environmental Impact Statement for the Guam and CNMI Military Relocation: Relocating Marines from Okinawa, Visiting Aircraft Carrier Berthing, and Army Air and Missile Defense Task Force.

Should you have any questions or concerns, please do not hesitate to contact this office.

Sincerely,

Enrique J.S. Agustin

cc:

Board of Directors PAG Planning Division John Jackson, JGPO Forward, Director





Technical Memorandum

TIECO MANAGEMENT OF THE CONTROL OF T

To:

Glenn Leon Guerrero, Port Authority of Guam

From:

Parsons Brinckerhoff: Matthew P. Smith, Andrea Rosenthal, Jeff Peck, This work was prepared by me or under my direct supervision

Date:

February 15, 2010

Subject:

FINAL Port of Guam Modernization Project - Review of November 2009 Joint Guam

Program Office (JGPO) Draft Environmental Impact Statement (DEIS)

Disclosure Statement

PAG is advised that PB personnel were involved in developing four technical discipline assessments related to the Haul Road portion of the JGPO DEIS. Specifically, the four disciplines and individuals involved are as follows:

- · Hazmat (Patrick Romero, Seattle office)
- · Air Quality (Alice Lovegrove, New York office)
- Traffic Impacts (Kara Swanson, Denver office)
- Historic/Archieology (Jason Bright, Salt Lake City office)

This work was performed for the Department of Public Works under separate contract and is unrelated to the JGPO DEIS review work performed by PB for PAG.

Introduction

In November 2009, pursuant to National Environmental Policy Act (NEPA) requirements, JGPO published a nine volume DEIS discussing the potential environmental impacts of the proposed Guam and Commonwealth of the Northern Mariana Islands (CNIMI) military relocations. The proposed actions discussed in the DEIS are complex and involve the U.S. Marine Corps, Navy, and Army and include the relocation of the Marine Corps and their dependents from Okinawa, Japan to Guam; construction of a new deep-draft wharf in Apra Harbor and related shoreside infrastructure improvements to support Navy transiting nuclear aircraft carriers; and development of facilities and infrastructure to support the relocation of Army military personnel and their dependents to establish and operate an Army Air Missille Defense Task Force (AMDTF).

The NEPA lead agency for the EIS process is the Navy. The Navy invited federal agencies that have jurisdiction or technical expertise for components of the proposed actions, or a potentially affected resource, to be cooperating agencies under NEPA. The agencies that are cooperating agencies for the DEIS are U,S, Fish and Wildlife Service (FWS), US Department of Transportation (USDOT) Federal Highway Administration (FHWA), Federal Aviation Administration (FAA), U.S. Environmental Protection Agency (EPA) Region 9, U.S. Office of Insular Affairs, U.S. Department of Agriculture (USDA), U.S. Army Corps of Engineers (USACE)

Over a Century of Engineering Excellence





and the U.S. Air Force. The Guam Department of Public Works (DPW) is a participating agency for the roadway improvement sections for the DEIS.

PB conducted a strategic (i.e., not word for word) review of the DEIS to assess the extent that JGPO considered the effect of their actions on the Port and the planned Port Modernization Program including the Reconfiguration, Maintenance and Repair project, The technical review included the following areas:

- Cargo Forecasts
- Use of Port Property
- Dredging
- · Port Projects Included in the Cumulative Effects Anlayses
- Ecology
- Traffic
- Air Quality
- Noise
- Contaminated Materials
- UXO
- Security
- Utilities
- Visual Resources
- Socioeconomics
- · Historic and Cultural Resources

Findings from the review of technical areas of the DEIS follow. Key findings from the review are summarized in the Conclusions and Recommendations Section at the end of this memorandum. The accompanying spreadsheet contains the individual comments and cites the source for each comment.

J-016-001

Cargo Forecasts

Overview and Analysis

Paragraph 14.2.1.2 addresses the Determination of Significance

Analysis indicates that the significance of impacts to Marine Transportation for vessel visits to Apra Harbor hinges on whether the number of visits exceeds, equals, or falls below historic highs experienced since 1995.

Paragraph 14.2.2.3 addresses construction and operations in Apra Harbor

14.2.2.4 Construction

Analysis indicates that dredging will add 127 vessel trips in the harbor related to the conveyance of Sierra Wharf dredge spoils to open ocean dumping site. It indicates that adding

2

Guam and CNMI Military Relocation DEIS/OEIS

J-016-001

Thank you for your comments. In regard to the anticipated increase in break-bulk cargo, the FEIS presents the break-bulk cargo forecast in Volume 2, Chapter 14. For the most recent year for which data are available (2009), 192 vessels visited the Port of Guam (Port) carrying 133,000 tons of break-bulk cargo (Port Authority of Guam 2010a). This averages to 693 tons of break-bulk cargo per ship. According to the data provided in the Master Plan Update 2007 (dated April 2008), the peak year for the inbound shipment of break-bulk cargo to the Port is 2012 when 291,400 tons will be delivered. Using the average of 693 tons of break-bulk cargo per ship, there would be 420 break-bulk cargo ships in 2012. This is an increase of 228 break-bulk cargo ships in the peak year as compared to 2009. The peak year for the shipment of containers to the Port is 2015. As presented in the FEIS, in that year, 269 container ships will visit the Port as compared to a yearly average of 124 container ships. In that same year, the projected amount of break-bulk cargo that will be shipped to the Port will be 143,400 tons which would require 207 ships which is only 15 more break-bulk ships than visited the Port in 2009. In 2012, it is projected that 244 container ships will visit the Port: this is 120 more container ships than the average. Because of the projected difference in the years of peak break-bulk cargo (2012) and the peak containers delivered (2015), the requirements for ground space, use of cranes, and berthing space will be spread over a three year period. The carriers that provide shipping services to DoD in the future may include Matson, Horizon, and other shipping companies. This will not impact the number of ships used to support the proposed action. The area of the proposed dredging of Apra Harbor in support of the berthing of the aircraft carrier at Polaris Point is not located in the channel used by ships to access the Port facilities. This proposed dredging will have a less than significant impact to access to the facilities of the Port. In regard to the conditions of the existing facilities at the Port, as documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam, as well as





J-016-001

these vessels to the 2008 vessel count would amount to a 12% Increase in vessel traffic for that year, it rates the impact as less than significant.

14.2.2.4 Operations

Analysis indicates that a minimum of three ships carrying amphibious vessels, accompanied by 4 combatant escort ships, could deploy to Apra Harbor a minimum of two times a year for durations ranging between 6 and 21 days. The analysis indicates that adding these ships to the vessel visits would result in less than significant impact given the substantial reduction in the number of vessel visits to the Port of Guam as compared to 1995.

Analysis includes projected container traffic from 2008 through 2018. It identifies the Port as the source of the statistics. It includes commercial and military containers and projects an average of 156,636 containers per year during embarkation with a peak of 190,000 in 2015. The projected average number of containers is double the average number of containers from 1995 to 2008 but the DEIS incorrectly (see discussion below on Port dredging) states that this equates to less than double the number of ships due to increasing vessel capacity. The analysis also indicates that there will be an increase of 149 container vessels above the average visiting the Port of Guam over a one year period assuming no increase in container capacity for container ships and that this would still result in less than a significant impact on marine transportation in Apra Harbor due to the historic reduction of 1,902 vessels visiting the Port of Guam between 1995 and 2008.

Recommendations and Response

The Port agrees that historic highs for vessel traffic will not likely be exceeded as a result of the move of military forces from Okinawa to Guam. However, what is missing in the above analysis is the impact to Marine Transportation and traffic into and out of the Port for the following potential activities in Apra Harbor and at the Port:

Summary Points

- A massive increase in non-containerized breakbulk cargo utilizing smaller and higher numbers of cargo transport vessels
 - The increased marine traffic related to breakbulk shipments and expanded wharf operations is not addressed in the analysis.
 - The two Jones Act carriers, namely Matson and Horizon, currently provide shipping services for DOD. It is not clear whether there will be other carriers entering the trade to support the build-up, especially in the area of break-bulk cargo. The JGPO DEIS is silent on this issue.
 - In the early stages the largest increases in cargo traffic and ground-space impacts at the Port will be related to breakbulk cargo. Ground space requirements for handling the combination of breakbulk and container cargo will effectively require site reconfiguration and revised deployment of cranes

3

Guam and CNMI Military Relocation DEIS/OEIS

the interest of Government of Guam agencies and others to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam. Funding for the Port's improvements (modernization) and expansion is anticipated to come from various federal agencies, GovGuam, and private sources. The funds for capital improvements would likely be repaid through user fees that would then be passed on to consumers, businesses, and other entities (i.e., DoD). While DoD is not directing the Port improvements, an amendment to the 2010 Defense Appropriations Bill is proposed in Congress which calls for the transfer of \$50M of DoD FY10 funds to the Department of Transportation to fund Phase I of the port improvements.





and berthing spaces. Breakbulk shipments will compete with container shipments during the scheduling of port calls. There could conceivably be marine traffic impacts as this evolves over time and is concurrently impacted by Port wharf repair and dredging projects.

- Dredging a 600' wide channel through Apra Harbor in support of Air Craft Carrier Berthing at Polaris Point; said dredging to occur for a period of 6 – 18 months
- Potential marine traffic consequences of a change in cargo mix and deferring needed berth bulkhead repairs in favor of a planned (pending) upland maintenance and repair project.
 - o In response to the military buildup and its escalating cargo throughput requirements, the Port has altered its normal planned maintenance and repair sequence and capital program expenditures in order improve its near-term cargo handling capabilities before attending to its critical in-water maintenance and repair needs. In a spirit of partnership with DOD, the Port is advancing an uplands maintenance and repair project that requires site expansion and reconfiguration (to support expanded grounding of cargo containers and breakbulk cargo) in order to enhance cargo handling capability in the face of massive growth. This is as opposed to an approach that would involve fixing existing facilities in place and dealing with the temporary reduction of cargo handling capability while berthing space and uplands laydown area is taken out of service to install marine structures.
 - o The above-mentioned maintenance and repair approach requires that the Port mortgage (and exhaust its borrowing capacity) its future in order to handle the cargo increases near-term while taking the risk that funds will not be available to address critical bulkhead and fender system improvements following the uplands maintenance and repair effort. The result is that the waterfront facilities will be subject to ever increasing loading (vessel calls, crane usage, surface traffic on wharf) and wear and tear as it continues to deteriorate in material condition. With structural failure already experienced during a 1993 seismic event, risks of catastrophic failure will progressively increase unless and until funding is both identified and made available to finance bulkhead repairs. This risk could materialize in the form of devastating collapse and huge impacts to cargo handling capability and marine traffic for container and breakbulk cargo vessels that would end up queuing in the Harbor.
 - Site reconfiguration is needed along existing wharf structures because of significant change in cargo mix. Huge volumes of breakbulk cargo are projected to support horizontal construction for the military and other impacted infrastructure on Guam. Cargo handling will become more ground-space intensive and will limit the ground area available to process containerized

4





cargo using the existing wheeled operation. There is potential for significant delays in cargo offloading for both types of cargo if the requested (pending grant/loan package) funding for the uplands maintenance and repair project falls through. If this happens, the queuing of increasing numbers of vessels could occur in the Harbor. This will happen regardless of whether the number count on visiting cargo vessels stays below the historic highs dating back to 1995.

- · Repair and replacement of a deteriorated sheetpile bulkhead at berths F4-F6.
 - This is a necessary and planned project needed to shore up the Port's wharves and berthing facilities to secure sustainable operations in the face of increased military cargo of all types.
 - This project will follow the aforementioned uplands maintenance and repair project. As previously mentioned funding for this project has not been identified. The Port's ability to fund it will be significantly impacted by diverting its limited capital program budget and borrowing capacity to the uplands project.
 - o If this project is funded through Federal Grants and appropriations and capital recovery charges in the form of cargo tariffs, then the work can proceed in a timely and scheduled fashion. If the project is not funded and the facilities collapse, the repairs will be inefficient and more expensive, longer in duration and likely cause greater delays to marine cargo traffic in the Harbor.
- Reduced berthing access to the port caused by the dredging of the berthing areas between F4 and F6.
 - Dredging to a depth of -42' MLLW will allow fully loaded container cargo ships to visit the Port. This will enhance cargo-throughput using fewer numbers of ships, possibly alleviating temporary traffic impacts in the harbor.
 - o Funding for this project is not yet identified. If this project is funded through Federal Grants and appropriations and capitol recovery charges in the form of cargo tariffs, then the work can proceed in a timely and scheduled fashion although it may compete for dredging equipment resources with JGPO dredging. If the project is not funded and dredging is not performed, visiting container ships will have to remain light-loaded. Note that this contrary to what is stated in the DEIS about lesser numbers of ships being required due to increasing capacity.
 - The dredging in and of itself will take Port berths out of services for a limited period of time. This may result in temporary queuing of vessels in the harbor with concurrent impacts to other marine traffic.

5





Use of Port Property

Overview

Use of Port property by the proposed JGPO action was reviewed. The DEIS states use of some areas that are on Port property for the proposed action.

Analysis

J-016-002

The new power plant proposed at Piti and adjacent to the Port is proposed as a long-term alternative for power. The DEIS states that it appears that the property is owned by the Port. An impact analysis has not yet been conducted. The DEIS also identifies the Port as a feasible location for a dredged material dewatering facility and beneficial reuse of the dredged material at the Port as fill for the Port Modernization Program (see the Dredging section of this Technical Memorandum for information).

Summary Points

- Proposed power plant at Piti adjacent to Port appears to use property owned by the Port
- The Port is identified as a feasible location for a dredged material dewatering facility.
- The Port is identified as a location to beneficially reuse dredged material as fill for the Port Modernization Program.

Dredging

Overview

Volume 1 of the DEIS summarizes the new deep draft wharf for transient aircraft carrier visits to be constructed at Polaris Point with shoreside improvements. The new wharf is discussed in detail in Volume 4 of the DEIS.

Analysis

The new deep draft wharf would be located at the entrance to Inner Apra Harbor channel. The navigational approach would be through Outer Apra Harbor. Ship navigation into the new berth would require a turning basin in front of the wharf. The existing Outer Harbor Channel would be widened to 600 feet with minor adjustments to centerline and navigational aids. No dredging would be required to widen the east-west portion of the navigational channel but due to a sharp southward bend in the existing channel towards Inner Apra Harbor dedging would be required to meet aircraft specifications. A new ship turning basin would be established and would require dredging to -49.5 feet puls 2 feet overdraft. The turning basin would be located near the wharf and north of the Inner Apra Harbor entrance channel.

6

Guam and CNMI Military Relocation DEIS/OEIS

J-016-002

Thank you for your comment. The long-term alternative is only presented at a programmatic level. Should this alternative be pursued, future NEPA review at the project specific level would be required. At that time, more in depth research on land ownership, a siting study, and other alternatives would be considered in greater detail.





During dredging, vessel access to the Port could be impeded. The later phases of the Port Modernization Program which includes dredging could encounter insufficient contractor resources to conduct Port dredging. The DEIS (Appendix K) also mentions locating a dredged material dewatering facility at the Port and beneficially re-using the dredged material for fill at the Port for the Port Modernization Program. The location of the dredged material dewatering facility is located in the northeast portion of the Port directly where new gates are proposed as part of the Port reconfiguration, maintenance and repair project and appear to extend into the areas where containers will be placed. The cost of the facility was stated as \$22 million. In addition, use of dredged material as fill at the Port could not be feasible from technical, cost and timeframe perspectives.

The 2005 Dredged Material Management Plan (DMMP) prepared by Weston Solutions found the Port site to be feasible for location of a dredged material dewatering facility. In making this conclusion it also stated that social impactsfrom noise and traffic are problematic but that management plans could be developed. However, the specifics of these management plans were not provided.

Summary Points

- · Polaris Point dredging could impede vessel access to the Port.
- Depending on timing, Polaris point dredging could cause competition for contractor resources needed for dredging for the Port Modernization Program.
- The Port (Commercial Port Field 1) has been identified as a feasible location for a
 dredged material dewatering facility. The location, in the northeastern portion of the
 Port, directly conflicts with the location of the new gates and other structures and
 container storage areas proposed for the Port Modemization Program.
- The Port has been identified as a feasible location for the beneficial re-use of dredged material to be used as fill for the Port Modernization Program. Use of the material as fill at the Port may be infeasible due to cost, technical and timeframe reasons.
- Although the 2005 DMMP by Weston found the Port to be a feasible site for a dredged
 material dewatering facility and source for beneficial reuse of dredged material it also
 stated that social impacts from noise and traffic are problematic but that management
 plans could be developed. These mitigative plans are not included in the DEIS.
 feasible.

J-016-004

Port Projects Included in Cumulative Effects Analyses

Overview

The DEIS discusses cumulative impacts in Volume 7. Table 4.3-1 lists the past, present and reasonably forseeable projects on Guam, states the timeframe of the project and whether it was dismissed or retained for the cumulative impact analysis. If the project was dismissed for the cumulative impacts analysis, the reason is given. The lead agency or proponent, point of

/

J-016-003

Thank you for your comment. Under "Dredging Overview" in the comment, it states the aircraft carrier would be at Polaris Point when Polaris Point is only one of two alternatives being evaluated in the EIS. The Former SRF site is Alternative 2.

The northern limits of dredging for either Polaris Point or the Former SRF alternative is south of the main access into the Commercial Port. If ocean disposal of dredged material is used, there would be an increase in barge traffic to and from the ocean disposal site during dredging but this would not impede access to the Commercial Port.

If the Port Modernization Program dredging coincides with the dredging for the proposed aircraft carrier berth and Inner Apra Harbor dredging, the availability of dredges on Guam could be an issue. Recognizing the volume of work involved, contractors may take the opportunity to relocate their dredge equipment to Guam to compete for the work and/or existing dredge contractors on Guam may increase the amount of dredge equipment they have access to.

Regarding the use of the Commercial Port Field 1 identified as a feasible upland dewatering site in the 2005 and updated 2008 Upland Disposal Management Study and possible beneficial reuse at the Port for the Navy's dredged material, the EIS does not include any non-DoD locations for dewatering of dredged material. For this reason, there are no concerns about the Navy's action impacting the new gates, container storage area and other structures as noted in the comment. If the proper permits, need, timing and funding is available for GovGuam and specifically the Commercial Port, beneficial re-use of dredged materials at the Port is a possibility.

Similar to the response above, the comments regarding potential noise and traffic impacts identified in the 2005 and updated 2008 Upland





contact at lead agency, project name/location, area of interest, construction years, status, description and timeframe for each project is given.

Table 4.3-3 is a summary of potential impacts to resource areas for each project included in the cumulative impacts analysis. If there is the potential for a cumulative impact in a resource area the box beneath the technical area is marked. The resource areas covered in this table include water/wetlands, air quality, noise, air space, land use/ownership, recreation, terrestrial biology, marine biology, cultural, visual, marine transportation, utilities/roadways, socioeconomics, hazardous materials, public health and safety, and environmental justice and protection of children.

Analysis

The Port is referred to in Table 4.3-1 as PAG and is mentioned three times in the table as number AH-8, AH-9 and AH-19. For AH-8, the lead agency or proponent is identified as PAG, GovGuam is the point of contact at lead agency, the project name is Guam Port, area of interest is Guam – Apra Harbor, construction years are 2009-2013, status is Request for Proposal issued and proposals reviewed and in process of awarding, description is owner/agent for construction of the Guam Commercial Port, timeframe is future, and the project is retained for the cumulative impacts analysis. AH-9 is the same except that the point of contact at lead agency is MARAD/GovGuam, status is request for proposal issued and proposals have been submitted, and description is construction and commissioning of the facilities, equipment and amenities (\$195 million) that are required to implement the preferred concept "Break-Bulk West" in order to meet minimum requirements of the military buildup construction logistics requirements, and as for AH-8, the timeframe is future and the project has been retained for the cumulative effects analysis. The status for AH-19 is that the DEIS Notice of Availability has been published in the Federal Register on 8/10/07.

For AH-19, the lead agency is PAG, the point of contact at the lead agency is GovGuam and the project name is Commercial Port Improvements, the area of interest is Guam-Apra Harbor, the construction timeframe is 2021-2025, the status is Draft EIS (Notice of Availability (NOA) published in Federal Register on 8-10-07, description is construct new wharf east of Hotel Wharf to accommodate deep-draft container vessels and cruise ships. Dredging and filling of GovGuam submerged lands required, timeframe is unknown and the project was dismissed i.e., not included in the cumulative effects analysis because it is beyond the timeframe for the cumulative impact analysis.

AH-8 appears to be the owners engineer contract that PB currently is performing for the Port. AH-9 appears to be the preferred solution from the 2007 Updated Master Plan. AH-19 appears to be the Deep Draft Wharf project that is on hold.

The Port reconfiguration, maintenance and repair project is not included in the table and therefore, was not included in the DEIS.

8

Guam and CNMI Military Relocation DEIS/OEIS

Disposal Management Study are not applicable to the current upland disposal/dewatering actions since all of the dewatering sites being considered at this time are on DoD lands and would not involve noise or traffic impacts related to dewatering on the Port lands.

J-016-004

Thank you for your comments. The cumulative project list is updated to address your comments.





Summary Points

- AH-8 appears to be the Port owners engineer contract held by PB and would in of itself not have impacts and therefore should be deleted from the DEIS.
- Port projects to be conducted under the Port owners engineer contract such as the ARRA/USDA Port Improvement Project should be mentioned in cumulative effects anlaysis, but not included in the analysis until details are available to permit an analysis.
- AH-9 represents the conclusions of the 2007 Master Plan Update. It is applicable to characterize the overall Modernization Program, but is a program not yet funded. Subsequent to the 2007 Master Plan Update, Master Plan Approval Documents were submitted to and approved by the Guam Legislature. The Modernization Program was separated into three projects labeled as Phase IA, Phase IB, and Phase II. The portion of this program that has near-term projected funding is the Phase IA project otherwise known as the ARRA/USDA Port Improvement Project. Funding for this project could be approved by February 17, 2010. Once technical information becomes available, this project should be included in the cumulative effects analysis. Future Port projects (Phase IB and Phase II) should be identified in the cumulative effects portion of the DEIS but not included in the cumulative effects analysis.
- AH-19 appears to be a proposed Deep Draft Wharf Project that is currently on hold and
 definitely not funded. Its viability for the future should be confirmed with the Port and
 should be mentioned but excluded from the cumulative effects analysis at this time.

Ecology Implications

Overview

The DEIS discusses the ecology of the Apra Harbor area and includes an Essential Fish Habitat Assessment (EFH) and other plant and animal species of concern in Apra Harbor.

J-016-005

Analysis

According to the DEIS, the east end of the Port area is vegetated and characterized as scrub forest. It mentions that the Route 11 roadway improvements at Cabras Island in the cinity of the Port will encroach on scrub forest and tangantangan areas. It is inferred that part of this will be on Port property. According to the DEIS, a total of 43 acres of scrub forest and 14 acres of tangantagan will be impacted along Route 11. It is unclear from the discussion in the DEIS how much of this is on Port property and it is unclear whether or not this acreage is considered to be a substantial impact to vegetation communities.

9

Guam and CNMI Military Relocation DEIS/OEIS

J-016-005

Thank you for your comment. The vegetation displayed in figures and the acreage listed are included only as a general description for the vicinity of the proposed project. Vegetation would not be impacted because the road improvements planned for this area are pavement strengthening only.





The 2008 Weston Solutions Final Report on Dredged Material Upland Placement Study located in Appendix K of the DEIS stated that this scrub forest area is feasible for use as a dredged material dewatering facility.

J-016-006

In the direct vicinity of the Port, in the cove between the glass breakwater facility and fuel facilities and cement area, the DEIS identified a known sea turtle nesting area. Other plant and animal species identified by National Oceanic and Atmospheric Administration (NOAA) in the direct vicinity of the Port include sensitive coral, algae, macroalgae, turf algae and bigeye scad fish. Locations of these species are identified in Volume 2, Chapter 11 Figure 11.1-11. The NOAA also identified a coral area of special significance near the Glass Breakwater area. The Port area also was described by Navy studies in 2005 as containing the highest level of zooplankton (it is unclear in comparison to what) and also contains finfish larvae and mollusks.

According to the DEIS, the Western Pacific Regional Fisheries Management Council has characterized all of Apra Harbor as an EFH (refer to Figures 11.1-3 through 11.1-7 in Volume 2, Chapter 11.). At the nearby Naval Base Guam, located just south of the Port, seven species of flora/fauna were identified as threatened, endangered or candidate species by US Fish and Wildlife Service, NOAA and Guam Department of Agriculture Division of Aquatic and Wildlife Resources (GDAWR). Additionally, the green sea turtle and endangered hawksbill sea turtle are special-status species reported generally in Apra Harbor according to COMNAV. Similarly, Spinner dolphin, currently listed as a species of greatest concern, has been noted on a regular basis in the general Apra Harbor region according to National Marine Fisheries Service (NMFS) and US Fish and Wildlife Service (USFWS).

J-016-007

Due to the projected increased traffic among the islands from the movement of cargo, personnel and materials, the DEIS also describes potential harm to fragile ecosystems on Guam as a result of the introduction of invasive species.

Accidental transfer of invasive species to Guam due to shipment of supplies, equipment and household goods was discussed as a probable scenario. As a result, it also is probable that invasive species would be introduced through the Port.

Prevention of the spread of the Brown Tree Snake to a non infested area is a major concern on Port exports. In addition, as the DEIS states a comprehensive Micronesian Biosecurity Plan is in the process of development however it not available for review at this time.

Recommendations

It is directly and/or indirectly implied in the DEIS that several plant and animal species (including those listed as species of concern) are in the vicinity of the Port. The invasive species issue is of particular concern to the Port since movement of personnel and goods may introduce invasive species through the Port. The DEIS should specifically address how its dredging efforts in the channel and near Polaris Pt. and the management of invasive species and hazardous cargo shipments will mitigate potential impacts to these sensitive ecological resources.

10

Guam and CNMI Military Relocation DEIS/OEIS

J-016-006

Thank you for your comment. The DoD is committed to performing its mission in an environmentally responsible manner. The location of the new Navy wharf was chosen as the least environmentally damaging alternative in efforts to avoid the least amount of live coral in the area. The proposed dredge area within the active commercial harbor was previously dredged over 60-years ago and maintenance dredging continues.

Best management practices (BMPs) and potential mitigation measures will minimize the potential impacts of the proposed action. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor will one be available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

J-016-007

Thank you for your comment. The DoN is developing a Micronesia Biosecurity Plan (MBP) to address potential non-native invasive species impacts associated with this EIS as well as to provide a plan for a comprehensive regional approach. The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks. It is being developed in conjunction with experts within other Federal agencies including the





Summary Points

J-016-008

- In the direct vicinity of the Port, in the cove between the glass breakwater facility and fuel facilities and cement area, the DEIS identified a known sea turtle nesting area.
- Other plant and animal species identified by NOAA in the direct vicinity of the Port include sensitive coral, algae, macroalgae, turf algae and bigeye scad fish. The NOAA also identified a coral area of special significance near the Glass Breakwater area. The Port area also was described by Navy studies in 2005 as containing the highest level of zooplankton (it is unclear in comparison to what) and also contains finfish larvae and mollusks.

J-016-009

 Invasive species including the brown tree snake (BTS), flatworms, various insects and some plants may be introduced through increased cargo through the Port

Traffic Implications

J-016-010

Overview

Traffic conditions and roadway projects related to the proposed JGPO actions are described throughout the DEIS document. The most concentrated discussion of these items is largely summarized in Volume 6, more specifically in Chapter 2 (Proposed Actions) and Chapter 4 (Roadways). Key traffic areas covered in the DEIS are briefly listed below.

Traffic Items Covered in JGPO DEIS (Volume 6)

Chapter Two	Chapter Four
 JGPO action alternatives and land use 	Existing traffic conditions
 Population trends and projections 	Changes in traffic patterns
 Arterials requiring pavement upgrades 	 Transit and non-motorized networks
Location/number of bridge replacements	Future traffic projections
Construction timeline for improvements	 Performance measures (Volume/Capacity, delays, etc)

Chapter 2 provides a detailed overview of the general JGPO alternatives under consideration and describes the recommended improvements to the Guam Roads Network (GRN). Included in these improvements are pavement upgrades, bridge repair/replacements, roadway widening and intersection treatments. Potential timing and phasing of construction activities for near term roadway improvements also are described in Chapter 2 in terms of planning-level timelines.

Chapter 4 provides a high-level overview of the existing transportation system and highlights the existing roadway network on the island with regard to on-base and off-base transportation infrastructure. This chapter also discusses existing traffic demands on these roadways, operational conditions (congestion) during peak traffic periods for key intersections, transit services and non-motorized facilities. The roadway system is divided into four geographic

11

National Invasive Species Council (NISC), U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS), the US. Geological Survey (USGS), and the Smithsonian Environmental Research Center (SERC). The plan is intended to be a comprehensive evaluation of risks in the region, including all Marine Corps and Navy actions on Guam and Tinian. For additional information on the MBP and existing and interim measures for non-native invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-016-008

Thank you for your comments. Text has been clarified regarding zooplankton levels.

J-016-009

Thank you for your comment. The DoN is developing a Micronesia Biosecurity Plan (MBP) to address potential non-native invasive species impacts associated with this EIS as well as to provide a plan for a comprehensive regional approach. The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks. It is being developed in conjunction with experts within other Federal agencies including the National Invasive Species Council (NISC), U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS), the US. Geological Survey (USGS), and the Smithsonian Environmental Research Center (SERC). The plan is intended to be a comprehensive evaluation of risks in the region, including all Marine Corps and Navy actions on Guam and Tinian. For additional information on the MBP and existing and interim measures for non-native invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial





areas, the North region of the island near Andersen AFB, the Central region, the Apra Harbor region which includes PAG facilities and naval base, and the South section.

Future traffic projections and congestion levels are then described in Chapter 4 which includes a discussion of the anticipated population and employment levels related to the military building and the potential volumes that may occur as a result. To assess arterial performance, volume-to-capacity (V/C) was used to measure potential levels of peak period congestion. Additionally, intersection-level traffic analysis was used to measure delays and level of service (LOS) at key roadway crossings. Of the roadways described in Chapter 4 that are critical to the PAG, Route 1.1 is highlighted as a study arterial and the intersection of Route 1./Route 1.1 is included in the list of Intersections within the Apra Harbor region. The nearby intersection to the south at Route 1./Route 6 also is included in this list. Volume-to-capacity data for Routes 1 and 1.1 are provided for the 2014 and 2030 horizon as are peak period delays at key intersections such as Route 1./Route 1.1 and Route 1./Route 6.

Throughout the DEIS, two general horizon years are targeted for the purposes of describing transportation conditions: a short term 2014 timeframe and a longer range 2030 timeframe. These were likely selected to capture the peak (i.e. worst-case scenario) population levels due to the build-up and separately provide a snapshot of conditions in the longer term future.

Analysis

The proposed JGPO actions and related mitigation described in the DEIS appear to adequately discuss transportation issues from the perspective of the general roadway network. However, for the purposes of the Port modernization project some conflicting issues between the JGPO actions and the proposed PAG reconfiguration, maintenance and repair project may need to be resolved to ensure that potential cumulative impacts are fully addressed. The majority of these issues relate to the timing of roadway improvements as proposed in the DEIS and how they correspond to the Port reconfiguration, maintenance and repair project. In addition, the projected traffic congestion on specific roadways affecting the Port-based truck movements is also in question. These issues are summarized briefly below.

Chapter 2 Potential Gaps in Information

- Guam Roadway Network (GRN) improvements No. 13 and No. 14 call for pavement strengthening of Route 1 near Routes 11 and 6. These improvements may disrupt commercial and construction-related truck movements into and out of Port facilities.
- o GRN improvements No. 4 and No. 5 would involve pavement strengthening of Route 11 from Route 1 to the Port entrance and intersection improvements at Route 1/Route 11, respectively. These activities may coincide with Port repair and maintenance work, hence affecting vehicle movements to/from Port facilities.
- The timing of GRN improvements to Route 11 and to the intersection of Route 1/Route 11 shows implementation in 2011. Upgrades to Route 1 north and south of Route 11 are expected in 2013. These coincide and conflict with the Port repair and maintenance construction schedule (2010-2013).

12

Guam and CNMI Military Relocation DEIS/OEIS

species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-016-010

Thank you for your comment. The projects proposed for Route 11 and intersection of Route 1 and Route 11 were identified as high priority projects and scheduled to be complete prior to the peak period of the military build up in order to minimize traffic congestion on Route 11 and impacts to the port. For all projects, a traffic managment plan will be developed during the design phase of the project to minimize traffic impacts during construction to all users of the roads/bridges. The Federal Highway Administration will coordinate the projects in the are of the port with the PAG.





- The discussion under Section 2.1.1.8 states that construction of the GRN improvements "would occur from 2010 to 2016 with peak construction in 2013". This coincides with the Port's repair and maintenance schedule of 2010-2013.
- Table 2.5-4 Guam Roadway Network Construction Projects to be Completed Each Year is further evidence of overlapping schedules between GRN activities and Port repair and maintenance work. Note Route 1 and 11 improvements shown as being completed in 2011.
- The proposed construction of a new power plant at the Cabras/Piti site (summarized in Table 2.1.3) may affect PAG truck movements on Route 11 particularly during highintensity construction activity.

Chapter 4 Potential Gaps in Information

- o The Route 1 volume-to-capacity (V/C) ratio shown in Table 4.2-5 Alternative 1 and 2 Future ADT and Volume to Capacity Ratio Summary would exceed 1.00 in Taumuning by 2014 which is an area where Port trucks (commercial and construction related) pass through. This relates to both Alternative 1 and Alternative 2 (Preferred).
- Similar to the above issue: the Route 1 V/C ratio shown in Figure 4.2-20 Central Region 2014 PM Peak Congestion Levels for Alternatives 1 and 2 is far greater than 1.0 by 2014 (in fact > 1.15) which may affect Port truck movements. This again relates to both Alternative 1 and Alternative 2 (Preferred).
- The level of service (LOS) for the intersection of Route 1 and Route 11 is shown to be at Level E by 2014 during the PM peak hour which indicates heavy congestion and high delays. This high level of congestion may affect commercial truck movements to/from the Port.

Recommendations and Summary Points

In order to fully address Port interests as they relate to the JGPO actions and proposed mitigation measures described in the DEIS, the following actions are recommended:

- The DEIS should address impacts to Port truck movements (including military shipments) on the roadway network due to construction activity on Routes 1 and 11.
- The DEIS should formally address impacts to Port container movements (including military shipments) due to bridge replacements on Route 1 north and south of Route 11.

13





 The DEIS should assess the impacts of constructing a new power plant at the Cabras/Piti site since it may have some affect on traffic flow on Route 11.

J-016-011

Air Quality Implications

Overview

The DEIS discusses potential air quality impacts by different regions on the island. The area of the island discussed in the DEIS that is applicable to the location of the PAG project is referred to as the Apra Harbor area. JGPO projects that have the potential to impact the PAG or add to impact from the proposed PAG reconfiguration, maintenance and repair project are as follows:

- Intersection of Route 11 and Route 1 improvements
- o Improvements to Route 11
- New diesel power plant adjacent to existing Guam Power Authority (GPA) facilities near the PAG

The DEIS indicates that there could be significant impacts to air quality on the island of Guam due to the addition of power generating facilities. Additionally, the DEIS discusses temporary impacts to air quality occurring as a result of construction activities. However, impacts to air quality around the Port are not anticipated to exceed federal thresholds with the military buildup on Guam.

Analysis

The DEIS indicates that significant impacts could occur as a result of the need for additional power for the island with the military buildup. To accommodate the military buildup, part of the long range alternative is to construct another diesel fired power plant adjacent to the existing GPA facility near the Port. However, the scope of the DEIS does not include analyses of impacts to air quality on Guam from the addition of the new power plant. Therefore, the affects of adding a new power plant near the port would be addressed as part of the environmental permitting process associated with the new power plant project at a later date. Should further air quality analysis be included in the DEIS of the long range alternative (as part of the revisions after the comment period), this analysis should be included in the PAG project Environmental Assessment (EA).

The remaining projects associated with the military buildup discussed in the DEIS are not anticipated to affect the PAG project. Any cumulative impacts from the JGPO DEIS and the Port of Guam modernization would be entirely from the military buildup since the PAG project will not add additional cargo or other traffic into and out of the Port. Nevertheless, the DEIS does not discuss cumulative effects of their projects (specifically projects numbered 4, 5, 1.3 and 35 as shown on Figure 2.5-8 of the DEIS) near the Port. Also, the DEIS does not discuss impacts relating to accessing the Port while the JGPO projects are simultaneously under construction with the Port Modernization project.

14

Guam and CNMI Military Relocation DEIS/OEIS

J-016-011

Thank you for your comment. Based on the most recent GPA power study discussed in the FEIS, it is unlikely the long-term new power plant will be needed prior to 2017. However, as GPA is the energy provider on Guam, they would make the ultimate decision on a new power plant. Therefore, the FEIS presents only one preferred basic power alternative (Basic Alternative 1). If an analysis of long-term alternatives is required in a supplemental NEPA document, it would be distributed to interested parties, including the Port Authority of Guam (PAG). In a recent project cost and benefit analysis (BST Associates 2009) performed for port improvements, it was determined that proposed port improvement projects would reduce air emissions by reducing the number of hours at berth and the hours of use of terminal operating equipment. Projects that may potentially impact air quality were identified in the cumulative impacts volume (Volume 7, Table 4.3-3); however, detailed analyses could not be performed due to uncertainties associated with future projects. The cumulative impacts analysis does not include specific Guam Road Network (GRN) projects, although it is assumed that any GRN would include alternative access routes to the Port during construction efforts. BST Associates. 2009. Evaluation of Expected Project Costs and Benefits. Supporting Material for the TIGER Discretionary Grant Application Submitted by the Port Authority of Guam. August.





Finally, it appears that public beaches near the Commercial Port may not have been included in the DEIS. The addition of traffic and construction of JGPO related projects could potentially affect air quality at adjacent locations of frequent human use including public beaches.

Recommendations

The DEIS indicates that significant impact to air quality could occur as a result of the need to increase power generation at existing facilities. These impacts are not discussed in the executive summary. General impacts to air quality on the island of Guam should be included in the summary (Table ES-4).

The DEIS does not indicate how traffic into and out of the Port will be accommodated during the transition of military personnel, equipment and other needs to the Island. There is concern that with increased traffic there could be queuing on port property and consequently issues with air quality. However, queuing is not discussed in the DEIS. A general discussion of queuing into and out of the Port should be addressed in the DEIS.

The DEIS also does not discuss cumulative effects from the associated projects and the Port's ability to function efficiently. This is particularly important considering modemization of the Port overlaps with the proposed JGPO projects. An analysis of any anticipated impacts that construction of the JGPO projects will have on the Port's ability to move traffic in and out efficiently should be conducted. Additionally, an analysis of how construction of the JGPO projects while the Port is under construction will affect loading/unloading of JGPO equipment and transportation of cargo should be conducted. It appears that the public beaches near the Port have not been analyzed in the DEIS. Beaches along Route 1 are discussed briefly in the document but there is some concern that beaches specifically near the Port were overlooked. If this is the case, information about these areas should be added in the DEIS.

The DEIS discusses best management practices (BMPs) to minimize affects of the military buildup on Guam. BMPs for air quality are not discussed as part of this effort. BMPs for air quality should be included as part of the DEIS document.

Summary Points

- Impacts to air quality as a result of increase in power generation should be addressed in DEIS executive summary
- DEIS does not address accommodation of traffic into and out of the Port during the overlapping period when the Port reconfiguration, maintenance and repair project will be constructed and the JGPO project will be taking place.
- Increased queuing on Port property due to potential could result in air quality issues and should be evaluated
- o Impacts on air quality at the public beaches adjacent to the Port should be ievaluated
- o Best management practices (BMPs) for air quality should be included.

15





Noise Implications

Overview

The DEIS discusses potential noise impacts by different regions on the island. The area of the island discussed in the DEIS that is applicable to the PAG project is referred to as the Apra Harbor area. JGPO projects that have the potential to impact the PAG or add to impacts from the PAG project are as follows:

- o Intersection of Route 11 and Route 1 improvements
- o Improvements to Route 11
- o New diesel power plant adjacent to existing GPA facilities near the PAG

The DEIS indicates that there could be noise impacts on Guam due to additional traffic. These impacts are anticipated to be somewhat temporary during the height of cargo traffic associated with the buildup. However, there could be permanent affects from the increased population on the island and consequent increase in traffic around the island. Generally, the JGPO DEIS regards the Apra Harbor area as having no land uses sensitive to noise. Therefore any addition of traffic, either temporary or permanent, is not anticipated to have an effect on the noise environment of the Apra Harbor area.

Analysis

The DEIS did not discuss the potential impacts from noise on the public beaches near the commercial part of the Port and on the 24-hour security personnel at the Port. The DEIS did not discuss potential noise impacts when the JGPO roadway projects near the Port (i.e. projects numbered 4, 5, 13 and 35 as shown on Figure 2.5-8 of the JGPO DEIS) are planned to be under construction simultaneously with the Port Modernization project. The additive effect of construction equipment on the noise environment could affect the 24-hour security personnel at the Port.

Recommendations

The DEIS does not analyze noise impacts to public beaches near the Port nor does it analyze impacts to 24-hour security at the Port. Analysis of these items should be conducted. Additionally, the DEIS should consider discussing cumulative effects of noise on sensitive areas (i.e. 24-hour security and public beaches) while the JGPO projects (i.e. project numbers 4, 5, 13 and 35) overlap with construction efforts of the Port Modernization project.

Summary Points

- Noise impacts to public beach areas near the Port and on Port 24-hour security personnel should be evaluated.
- Cumulative effects of noise on sensitive receptors during the overlap of construction timeframes from the JGPO project and the Port reconfiguration, maintenance and repairs project should be assessed.

16

Guam and CNMI Military Relocation DEIS/OEIS

J-016-012

Thank you for your comment. The methodology for analyzing noise impacts from traffic is provided in Chapter 8 of Volume 6, Section 8.2.6, and includes noise traffic modeling and overlaying the 66-dB contour line along the road project alignment to determine noise-impacted areas. This analysis did not identify any noise sensitive receptors within the Apra Harbor region. The 66-dB contour line takes into consideration the activity categories and corresponding noise abatement criteria (NAC) as shown in Table 8.2-2. Beaches are considered Category B for which the NAC is 67 dB (exterior) and the Port is considered Category C for which the NAC is 72 dB (exterior). Cumulative impacts are considered for their long-term effect. Noise impacts from construction of port facilities and roads are temporary and would cease upon completion of these projects.





Contaminated Materials Implications

Overview

An overview of contaminated materials affecting locations near the Port was provided. Potential items of concern to the Port include references to the adjacent Power Plant, potential PCB contamination in power poles and the transport of contaminated materials through the Port. Details of the more critical aspects of the contaminated materials review, including consideration whether or not PAG interests regarding contaminated materials are adequately addressed and correctly represented in the DEIS, is provided below.

Analysis

The DEIS suggests potential soil and/or groundwater contamination at the Guam Power Authority (GPA) Cabras Power Plant. In particular, documented site history and site conditions indicate that soil and/or groundwater contamination is likely (refer to Table 17.1-5 in Volume 2, Chapter 17). The table also includes a statement that there was significant non-compliance with former PCB disposal near (GPA) Cabras Power Plant.

PCB fluids for breakers were once used in pole and pad-mounted transformers and capacitors. A field review of power pole and pad-mounted transformers in the Apra Harbor region during inspections of substations and GPA utility buildings indicated that PCB contamination along Route 11 is likely.

The DEIS states that expanded Department of Defense (DoD) missions on Guam would result in an increase in the off-island transport and Inter-island transfer of hazardous waste. Hazardous materials usage thresholds in Okinawa suggest similar usage and impacts on Guam following the Marine Corps relocation.

Within the aircraft carrier berthing project description, the DEIS states that accidental releases of petroleum could occur during project-related construction or operations from vehicles, watercraft and equipment which could potentially migrate throughout Apra Harbor. The DEIS describes some best management practices (BMPs) for smaller spills including spill prevention, control and countermeasure plans that will be detailed within stormwater and spill contingency plans.

Recommendations

Fuel for the new power plant will come through the Port. With the arrival of fuel at the
Port, the potential for spills on Port property exists. The DEIS document does not
address nor delineate responsibility for cleanup of potential fuel spills on Port property.
It is recommended that this be addressed.

The DEIS states that expanded DoD missions on Guam would result in the off-island and interisland transfer of hazardous waste. It is assumed that this material will be coming through the Port, however, this should be clarified. Similarly, clarification should be determined as to which party is responsible for clean-up and remediation to Port caused by hazardous spills or

17

Guam and CNMI Military Relocation DEIS/OEIS

J-016-013

Thank you for your comment. The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including fuels, lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, PCBs, nuclear materials, and other hazardous substances. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and substituting them for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and regulations, DoD has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage. spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are fully described in the EIS document (Volume 7). Note that BMPs and SOPs are not considered "mitigation measures" because these actions are being done as part of existing laws and regulations and not as part of new "mitigation." However, if a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are mitigated quickly and effectively. In many cases, part of remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to





other incidents as a result of JGPO project-related hazardous waste.

The DEIS section of the aircraft carrier berthing project briefly describes general BMPs pursuant to Navy response plans regarding small fuel spills on land and in water during construction (including containment booms and deployment of Navy oil response units). However, a statement in the DEIS concludes that larger spills have the potential to migrate within Apra Harbor. It is recommended that more detail regarding larger spill prevention and mitigation be provided.

Summary Points

- It is recommended that delination of responsibility of potential fuel spills on Port property as a result of power plant fuel transport be addressed.
- Similarly, clarification should be determined as to which party is responsible for cleanup and remediation to Port caused by hazardous spills or other incidents as a result of JGPO project-related hazardous waste.
- It is recommended that more detail regarding larger spill prevention and mitigation be provided in the event of a larger spill in Apra Harbor as a result of the aircraft carrier berthing project.

UXO Implications

Overview

In general, the DEIS describes munitions and explosives of concern (MECs), which includes UXO. A review of the DEIS was conducted to determine if unexploded ordnance (UXO) was identified at locations at or near the Port.

Analysis

According to the DEIS, the Department of Defense (DoD) is coordinating with Guam Environmental Protection Agency (GEPA) to conduct preliminary assessments and site inspections of specific Areas of Concem (AOCs) on the island of Guam in regard to munitions and explosives of concern (MECs).

The description of the aircraft carrier berthing in the DEIS also discusses public injury and/or deaths resulting from UXO encountered on land during construction and in water during dredging operations in Apra Harbor. It states furthermore, that a review of historical records will be performed to assess MECs in the locations where construction or dredging will be conducted. If the records indicate areas of concern, surveys will be conducted to remove MECs.

Additionally, in the DEIS portion of the document which outlines the aircraft carrier berthing, inconsistent information is presented regarding impacts from UXO during construction and operation. Tables 18.2-1 and 18.2-2 in Chapter 18, Volume 4 (aircraft carrier berthing) state that UXO will likely have "no impact" for both Alternatives 1 and 2. However, Table 18.2-3

18

Guam and CNMI Military Relocation DEIS/OEIS

ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. In fact, many such clean-up efforts are underway. As part of the clean-up process, the DoD provides various opportunities for the general public, stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs) where interested party questions and concerns may be communicated.

These comprehensive actions (e.g., BMPs, SOPs, etc.) will protect public health, welfare, and the environment from adverse impacts associated with the use of hazardous substances.





summarizes UXO impacts for Alternatives 1 and 2 as "less than significant impact". The general ranking for impacts according to the DEIS is as follows:

- o SI = Significant impact,
- o SI-M = Significant impact mitigable to less than significant,
- LSI = Less than significant impact,
- o NI = No impact,
- o BI = Beneficial impact

Since there appears to be a difference between a "no impact" and "less than significant impact" ratings, the discrepancy in UXO impacts for Alternatives 1 and 2 should be clarified.

Recommendations

The report does not specifically address UXO on Port property. However, the possibility of UXO encounters during dredging operations (which are in relative close proximity to Port property) were addressed. Therefore, the locations of in-water AOCs identified by DoD and GEPA might be of interest to the Port.

In general, more information regarding where the DoD and GEPA will be conducting land and/or water site inspections for MECs should be provided in the DEIS. In particular, it is important to understand whether some of the AOCs are located near the Port, as this could potentially affect Port operations.

As mentioned, there appears to be conflicting information presented in three tables. In particular, the "no impact" versus "less than significant impact" discrepancy regarding UXO in the aircraft carrier berthing section of the DEIS documents should be clarified. Although this is a detail that may not directly affect the Port, it is something that should be generally clarified in the DEIS.

PB also recommends that a UXO expert review PB's findings and the DEIS document.

Summary Points

- The DoD and GEPA Areas of Concern (AOCs) site inspections at or near the Port should be addressed.
- The aircraft carrier berthing section discrepancy between "no impact" versus "less than significant impact" for UXO should be resolved
- o UXO expert should review findings in the DEIS document.

19





Security Implications

Overview

The DEIS document was reviewed with respect to physical security. Overall, the report was quite thorough. However, inconsistencies regarding the level of detail or level of reader-expected understanding with respect to the force protection descriptions were noted.

Analysis

In Volume 1, force protection language is used but not defined. There is an inherent assumption that all readers of the document know what force protection means.

Further in the document, some details regarding force protection are provided, such as set-off distances, fencing and access control. However, this information is not provided consistently with respect to all aspects of all of the alternatives. It was difficult to understand the environmental impact of a specific alternative without a comprehensive list of potential force protection mitigation efforts.

Recommendations

More detail in the document (without divulging too much sensitive security information to the general public) regarding specific mitigation efforts is likely needed. For example, a list of typical force protection responses should be included in the DBS.

In addition, the DEIS should include discussion about what type of fencing material will be used throughout the proposed developed areas and how high the fencing will be (including barbed wire – or not). For example, the Port utilizes concrete masonry unit (CMU) walls for security. In general, CMU walls are less attractive to tree snakes, last longer than metal mesh, and help withstand the high surf in the area. From an environmental and aesthetic perspective, it is important to understand what type of fencing will be constructed (metal mesh or CMU blocks) and if barbed wire will be included around the proposed developed areas.

The DEIS mentions that the military expansion will impact cultural sites, tourism sites, and commercial shipping, but does not go into any detail about what the security mitigation measures might be. Perhaps the DEIS could share what type of security measures have been used in similar situations. This would provide more context without giving away too many details.

The DEIS mentions many public utilities and services, such as 911 service and libraries and that they are not sufficient for the military expansion. Will this project pay to expand those public utilities and services? Additionally, a statement regarding the power plant adjacent to the Port should be included, including whether or not additional security measures are necessary at the power plant.

In general, more detail including what type of security measures have been used in similar situations should be provided in the DEIS, without requiring a full evaluation of every security risk and specific security mitigation responses.

20

Guam and CNMI Military Relocation DEIS/OEIS

J-016-014

Thank you for your comment. General descriptions of physical security structures, such as fencing, are provided as detailed planning has not been completed and there must be some allowances for variance in the final design. Where details were available, the environmental effects were discussed in the document.





The Port was designated a Strategic Port in 2009. There will be a wash down area at the Port which will be used to wash down vehicles driven to the Port from the military staging areas before they are loaded onto ships. Additionally, the Port reconfiguration, maintenance and repair project is proposing setting aside the break bulk area for the military whenever they undertake a mission related to the Strategic Port designation. This will close off the break bulk area to commercial operations and impact Port operations. Within the DEIS, there should be a discussion about how JGPO security measures will impact the Port.

Summary Points

- The DEIS should define what force protection measures mean and should be applied consistently.
- o Discuss how security measures at the Port will impact the Port.
- Clarify how procedures for missions related to the Port's Strategic Port designation will impact the Port.
- State whether or not additional security measures will be needed at the existing power plant as well as the proposed new power plant adjacent to the Port and whether these measures will affect the Port.

J-016-015

Utilities implications

Overview

A review of utilities, including power generation, potable water and wastewater systems, solid waste and telecommunications was conducted to determine what was presented regarding the Port of Guam in the DEIS. Details of the utility review are provided in the following sections.

Analysis

As a result of the military buildup in Guam, the potential for increased utility usage is likely. For example, in the Executive Summary the DEIS states that some power generating facilities will have increased use under the preferred alternatives. The DEIS also states that wastewater flow increases from military buildup could result in more issues with wastewater and potable water system limits. In particular, upgrading of sewer capacities might be needed. Impacts to potable water was determined to have a "significant impact mitigable to less than significant impact" for Guam Water Authority (GWA).

It is not clearly presented within the DEIS how increases in power, water and wastewater usage due to the military buildup will potentially affect the adjacent Port or other public areas. However, the DEIS only mentions that the pavement strengthening and improvement projects will affect utilities in Apra Harbor along Route 1 and Route 11, including power, navy power, cable television, fiber optic, GWA and Navy sanitary sewer and water. Some utilities would require relocation due to pavement strengthening. It was not specifically specifically stated

21

Guam and CNMI Military Relocation DEIS/OEIS

J-016-015

Thank you for your comment. The items identified in this comment are not part of the proposed action. The actions of improvements by the Port of Guam have been considered in the EIS as cumulative impacts. Should Federal funding become involved in the financing of those improvements, a separate NEPA document would be prepared by the Federal agency working with the Port. Information in this EIS would be shared with the Port's preparation of their improvement environmental document.





how the projects will affect utilities at the Port and details regarding when and where the utilities would be relocated were not provided.

Recommendations

It is not specifically addressed in the DEIS document what affect the military buildup will have on the adjacent Port (or other public areas). The DEIS should evaluate how utility demands and relocations as a result of the JGPO actions will affect current Port operations as well as future Port modernization including the reconfiguration, maintenance and repair project.

Summary Points

 The DEIS should evaluate how utility demands and relocations as a result of the JGPO actions will affect current Port operations as well as future Port modernization including the reconfiguration, maintenance and repair project.

J-016-016

Visual Impact Implications

Overview

An overview of visual impacts was provided in the DEIS for the viewpoints from Asan Bay Overlook, Cabras Island Scenic Vista, Orote Point Scenic Vista and Mount Chachao Scenic Vista. These viewpoints cover the area that also was reviewed for the Port reconfiguration, maintenance and repair project.

- Asan Bay Overlook: located in the War in Pacific National Historic Park on the southwest coast of Guam, this viewpoint provides a panoramic view of the shoreline.
- Cabras Island Scenic Vista: Cabras Island is a finger-like reef island, which forms the shoreline of Apra Harbor. The viewpoint provides a view of the west coast of Guam
- Orte Point Scenic Vista: located on the westernmost point of Orote Peninsula, the viewpoint provides unobstructed views of the deepwater port to the south.
- Mount Chachao Scenic Vista: one of the designated units in the War in Pacific National Historic Park. Viewpoint from the summit shows and overview of Apra Harbor and Orte Point.

Although substantial changes to the visual environment were noted for specific areas of Guam, the DEIS states that these changes would be expected to be brought to a level of less than significant, with mitigations measures in place.

Analysis

The affected environment discussion in the DEIS is adequate and correct to establish potential environmental consequences such as substantial modification of natural-appearing landscapes located adjacent to public roadways and transforming the relatively open visual

22

Guam and CNMI Military Relocation DEIS/OEIS

J-016-016

Thank you for your comments.





character of some ares into densely developed areas with numerous buildings, roads, parking lots, sidewalks, and landscaping. Viewpoints in common with the Port reconfiguration, maintenance and repair project include the Asan Bay Overlook, Cabras Island Scenic Vista, Orote Point Scenic Vista, and Mount Chachao Scenic Visa. The environmental consequences discussion in the DEIS does not conflict with findings expected for the Port reconfiguration, maintenance and repair project. Issues are adequately addressed and no missing information was noted. The DEIS finding that no significant visual impacts are anticipated in the Apra Harbor area is in consistent with the Port's analysis. Additionally, potential mitigation measures are sufficient and do not present adverse issues for the Port reconfiguration, maintenance and repair project.

Recommendations

Information provided in the DEIS concerning visual impacts appears to be consistent with the PAG reconfiguration, maintenance and repair project. Therefore, recommendations for further information or resolution of discrepancies do not appear to be needed.

Summary Points

 Visual impact assessment appears consistent with the Port reconfiguration, maintenance and repair project.

Socioeconomic Implications

Overview

An overview of socioeconomic implications was provided in the DEIS The analysis covered the following areas:

- o Historical and Economic Overview
- Population Characteristics; overall trends and demographics, and military demographics.
- Economic Characteristics: employment by industry, occupational profiles, income profiles, price adjusted income, unemployment, temporary workforce housing, and overview of current GovGuam capacity issues
- o Public Services

J-016-017

Analysis

The environmental consequences discussion in the JGPO DEIS does not conflict with findings expected for the Port reconfiguration, maintenance and repair project. Socioeconomic impacts are anticipated to be largely island wide in nature with little difference in effects among the various alternatives analyzed in the DEIS:

Population impacts: including active-duty Marines, dependents, and rotating transient
 Marines (about 19,500 people), the proposed actions would add about 65,000

23

Guam and CNMI Military Relocation DEIS/OEIS

J-016-017

Thank you for your comments.





- residents to Guam's population in 2014 and a subsequent more stable population of approximately 31, 000 by 2020.
- Economic Impacts: most long-term economic impacts would be beneficial, though the
 construction boom would entail substantial growing pains related to rapid population
 influx and housing shortages. These impacts combined with others such as noise and
 traffic, would substantially impact the quality of life on Guam for several years, until
 the steady-state military operational phase is in place.
- Public Service Impacts: many public services offered by GovGuam would need to increase professional staff to service the new population. Most of these agencies would need to rapidly expand their services and staff during the 2012-2014 peak, then cut them back as construction ends.

J-016-018

 Sociocultural Impacts: the sociocultural impacts by their nature are complex and would have no single outcome measure. Established patterns of military outreach to Guam's civilian community are likely to minimize the sort of day-to-day irritants that affect the average citizen.

J-016-019

Significant impacts on environmental justice issues would occur according to the DEIS.
 However, the PAG reconfiguration, maintenance and repair project is not expected to adversely impact socioeconomics or impact environmental justice and therefore, would result in no additive cumulative impacts.

J-016-020

In general, socioeconomic issues in the DEIS are evaluated in an island-wide context and there is no specific indication or assessment that these issues could be temporarily impacted by actions or impacts at the Port, ie. say by temporary overloading of the cargo handling capabilities of the Port, or temporary disruptions to cargo flow out of the Port when congestion occurs with Port gate work, utilities work in Route 11 ROW, and ongoing work to strengthen Route 11 and make improvements to the Route 11-Route 1 intersection. It is unclear if issues related to cargo flow in and out of the Port would have impacts needing to be evaluated.

Recommendations

Potential mitigation measures identified without a concurrent Port project are sufficient. If the Port Improvement Project is successfully funded and moves forward, the assessment should be expanded to include or rule out cumulative socioeconomic impacts as relates to the Port reconfiguration, maintenance and repair project.

Summary Points

 Information provided on socioeconomics appears to be consistent with postconstruction impacts of the Port reconfiguration, maintenance and repair project

24

Guam and CNMI Military Relocation DEIS/OEIS

J-016-018

Thank you for your comment. While population increases can highlight cultural differences, they also present unique and new opportunities for cultural learning and sharing. As indicated in the FEIS (Volume 2, Section 16.2.5; Volume 4, Section 16.2.5), the DoD plans for cultural sensitivity orientation and awareness programs which will focus on mutual respect and tolerance and strive to educate all incoming and currently present military personnel on the rich and varied cultural history that has created the culture that is Guam today. Finally, the DoD plans to increase military civilian joint activities in order to foster strong and mutually beneficial military civilian relationships that include the sharing and understanding of culture.

J-016-019

Thank you for your comment.

J-016-020

Thank you for your comment.





 Temporary economic impacts may occur during the period when the Port project moves forward and there are discruptions to Port cargo handling capability and the flow of goods into and out of the Port via the temporarily congested Route 11 and the Route 1-Route 11 intersections.

J-016-021

Historic and Cultural Resources Implications

Overview

The JGPO DEIS discusses cultural resources in Volume 2, Chapter 12, environmental consequences in Volume 4, Chapter 12 and cumulative impacts in Volume 7 Chapter 4. Impacts from connected actions such as roadways and utilities are in Volume 6, Chapter 14.

Analysis

Port interests regarding historic and cultural resources are adequately and correctly represented in the DEIS. No historic properties are identified on Cabras Island, and so no impacts are identified. Moreover, the likelihood of undocumented archaeological resources on Cabras Island is appropriately identified as low. Submerged cultural resources in Apra Harbor are identified, and the proposed actions should have no effect on them.

Regarding cumulative impacts, three Port projects are identified as future actions:

- Commercial Port Improvements (Identified as AH-19 in Table 4.3-1, which identifies a Notice of Availability for a Draft EIS published 8-10-7)
- RFP for construction at the Port (identified as AH-8 in Table 4.3-1).
- Construction and commissioning of facilities, equipment and amenities for "Break Bulk West" (identified as AH-9 in Table 4.3-1)

Project AH-19 is identified as outside the temporal horizon for their cumulative analysis. The JGPO DEIS estimates potential impacts from the remaining two projects (AH-8 and 9 above) and estimates no adverse impacts to cultural resources. Typically, only resources that could be adversely affected by a proposed action are considered for cumulative analyses.

Recommendations

The presentation of the specific JGPO Area of Potential Effects (APE) in Volume 4 Chapter 12 should be clarified. The chapter needs to illustrate the physical and geographical relationship between the JGPO APE, and the Port's property. The chapter identifies a "proposed channel" on its two figures, but nowhere does it state whether this is the entire APE or not. Known historic properties in Apra Harbor should be clarified on figures and in text to avoid any contradiction in the future. An unidentified red dot is plotted within the proposed channel in Figures 12.2-1 and 12.2-2, which is outside the No Training area. The document should identify this resource and how it is not impacted, if it is within the proposed channel. In the Apra Harbor section of the off-base roadway section, Route 11 on Cabras Island should be changed from a "Medium" probability for encountering undocumented archaeological resources during construction, to a "No/Low" probability area.

25

Guam and CNMI Military Relocation DEIS/OEIS

J-016-021

Thank you for your comment. The potential impact area is identified in Figures 12.2-1 and 12.2-2. The channel is considered to be the area of direct impact. Both direct and indirect impacts from channel dredging and operations are discussed in Section 12.2. Labels and actual locations of historic properties are not depicted on maps in public documents in accordance with the Archaeological Resources Protection Act. The location of Port property has been clarified in the figures and the area of Route 11 on Cabras Island has been changed to a "Low/No Probability" area.





Summary Points

J-016-021

- o Presentation of JGPO Area of Potential Effects and known historic properties in Apra Harbor should be clarified. The DEIS needs to be specific as to the Area of Potential Effects for each alternative in Chapter 4, and needs to precisely plot locations of known historic properties.
- Route 11 on Cabras Island should be changed from a "Medium" probability for encountering undocumented archaeological resources during construction, to a "No/Low" probability area.

J-016-022

Overall DEIS Review Conclusions & Recommendations

PB's review of the DEIS found that the document often did not evaluate the potential for impacts of JGPO's proposed actions on Port operations and facilities. The DEIS is flawed regarding both potential use of the Port property and consideration of effects on Port operation, efficiency, and mission, as well as the economic burden potentially imposed on the Port. It is possible that some portions of the proposed actions could have significant effects on Port operations and access and conflict with the Port's proposed modernization program.

The JGPO DEIS also did not consider the effects of their proposed actions on the Port's proposed reconfiguration and maintenance and repair project, ie. the pending ARRA/USDA Port Improvement Project. This is significant because there is overlap between the timeframes of the proposed JGPO project (2010-2020, with peak in 2014) and the Port's proposed reconfiguration and maintenance and repair project (2010-2013). Furthermore, the DEIS has identified a direct conflict with this project in its discussions concerning the location for a dredged material dewatering facility and proposed the beneficial use of the dredged material resulting from the proposed actions as fill for the Port's modernization program. The proposed dredged material dewatering facility is located on Port property designated for the location of an expanded container yard, furnigation area, potential helipad for DOD, fencing, DOD access in support of the Strategic Port designation, and new gates, canopies and other supporting terminal infrastructure.

Below is a summary table of the key findings from PB's review of the DEIS:

26

Guam and CNMI Military Relocation DEIS/OEIS

J-016-022

Thank you for your comment. DoD will work with the Port of Guam to ensure that none of the suggested conflicts would occur. The use of dredged material from the proposed CVN berthing project and/or Inner Harbor dredging for beneficial reuse at the Port would be a decision by the Port of Guam. The proposed port improvement projects are documented in both indirect and cumulative impacts discussions contained in Volumes 6 and 7 of the EIS.





JGPO DEIS REVIEW SUMMARY OF KEY FINDINGS

J-016-023

Cargo Forecasts

- Minimizing impacts to marine traffic in Apra Habor and roadway traffic into and out
 of the Port hinges on the Port being able to modernize its facilities. This itself
 hinges on the Port being able to obtain sufficient funding for its Phase IA and Phase
 IB maintenance and repair projects.
- Phase I A funding decisions should be released by February 17, 2010. If funding is sufficient to execute the Phase I A project, cargo handling capability should be significantly improved by 2013. If less than the full amount of Phase I A funding is authorized, the project will need to be redefined and redesigned in order to maximize the benefit of what can be accomplished within available funding.
- Following full or partial funding of the Phase I A project, Phase IB funding in the form
 of federal grants and appropriations and cargo tariffs will need to be identified.
 Failure to secure Phase IB funding will put the Port's main wharf structures at
 increasingly high risk of catastrophic failure in the face of ever increasing cargo
 throughput and the always present possibility of tsunamis and seismic events.
- The Port's efforts to perform standalone maintenance and repair work in a manner that allows for near-term expanded cargo handling capability mandates that uplands work be performed ahead of critical in-water work. This puts the Port at risk while it attempts to accommodate the cargo impacts of the JGPO projects on Guam

J-016-024

Use of Port Property

- Proposed power plant at Piti adjacent to Port appears to use property owned by the Port.
- Use of the Route 11. ROW for relocating utilities needs to be coordinated with utility relocations being considered as part of the ARRA/USDA Port Improvement Project
- Proposed location of a dredge dewatering facility on property being used to reconfigure and expand the Port as part of the ARRA/USDA Port Improvement Project presents direct conflict between the projects.

J-016-025

Dredging

- Polaris Point dredging could impede vessel access to the Port.
- Polaris point dredging would cause competition of contractor resources needed for dredging for the Port Modernization Program.
- The Port (Commercial Port Field 1) has been identified as a feasible location for a
 dredged material dewatering facility. The location in the northeastern portion of the
 Port directly conflicts with the location of the new gates and other structures and
 container storage areas proposed for the Port reconfiguration, maintenance and
 repair project.

27

Guam and CNMI Military Relocation DEIS/OEIS

J-016-023

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of the Port of Guam and the interest to have DoD fund improvements to this facility. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam. While DoD is not directing the Port improvements, an amendment to the 2010 Defense Appropriations Bill is proposed in Congress which calls for the transfer of \$50M of DoD FY10 funds to the Department of Transportation to fund Phase I of the port improvements.

J-016-024

Thank you for your comment. The potential long-term alternative of a new power generating facility at Piti was only presented at a programmatic level, not project specific. This alternative has been deleted in the Final EIS. Coordination on the use of Route 11 right-of-way for utility upgrades would be coordinated with other projects anticipated in this area during detailed design and construction.

J-016-025

Thank you for your comment. The northern limit of dredging of the Polaris Point alternative is south of the main entrance into the Commercial Port so commercial traffic entering or leaving the Commercial Port should not be impeded as a normal course of action. Increased vessel traffic may occur due to the barges/scows that may be used for ocean disposal if that disposal method is permitted and employed.

If the Port Modernization Program coincides with the timing of the dredging for the aircraft carrier berth, there could be competition between the available dredges that would be needed for both actions at





- The Port has been identified as a feasible location for the beneficial re-use of dredged material to be used as fill for the Port Modernization Program. Use of the material as fill at the Port may be infeasible due to cost, technical and timeframe reasons.
- Although the 2005 DMMP by Weston found the Port to be a feasible site for a
 dredged material dewatering facility and beneficial reuse of dredged material it also
 stated that social impacts from noise and traffic are problematic but that
 management plans could be developed. These mitigative plans are not included in
 the DEIS.

J-016-026

J-016-027

J-016-028

Port Projects Included in the Cumulative Effects Analysis

- AH-8 appears to be the Port owners engineer contract held by PB and would in of itself not have impacts and therefore should be deleted from the DEIS.
- Port projects to be conducted under the Port owners engineer contract such as the Port reconfiguration, maintenance and repair project should be included in the DEIS.
- AH-9 and AH-19 appear to be from the Port Master Plan and are not accurately represented.

Ecology

- In the direct vicinity of the Port, in the cove between the glass breakwater facility
 and fuel facilities and cement area, the DEIS identified a known sea turtle nesting
 area.
- Other plant and animal species identified by NOAA in the direct vicinity of the Port include sensitive coral, algae, macroalgae, turf algae and bigeye scad fish. The NOAA also identified a coral area of special significance near the Glass Breakwater area. The Port area also was described by Navy studies in 2005 as containing the highest level of zooplankton (it is unclear in comparison to what) and also contains finfish larvae and mollusks.
- Invasive species including the brown tree snake (BTS), flatworms, various insects
 and some plants may be introduced through increased cargo through the Port
 potentially impacting the Port and the remainder of Guam. The DEIS does not
 discuss measures to prevent the introduction of invasive species.
- The marine environment in the vicinity of the Port is characterized as sensitive; containing species of social concern, threatened, endangered, candidate and, in the case of the Spinner dolphin, species of greatest concern. The area also is characterized as containing the highest level of zooplankton and also contains finish larvae and mollusks. A coral area of special significance was identified near the Glass Breakwater area. The DEIS did not provide the precise location of these species and therefore, the actual occurrence of these species at the Port can not be

2

Guam and CNMI Military Relocation DEIS/OEIS

the same time.

The Commercial Port Field 1 was not included as an option in the Volume 4 analysis since only those confined disposal facilities on DoD lands are expected to be used for upland disposal of the dredged material should that method of disposal be employed. Therefore, no impacts to the new gates or other structures referred to in this comment would occur. No mitigative plans for Commercial Port sites would be needed as social and evronmental impacts such as noise and traffic would be avoided.

Comment noted regarding use of dredged material for the Port Modernization Program. As described in Chapter 2, Volume 4, this is only one of several potential options for the use of dredged material generated from the proposed action. A final decision would be made during the permitting phase. The Navy has a memorandum of agreement with the Port Authority of Guam to provide fill from proposed dredging projects should the materials be deemed suitable and the timing and logistics of both projects work out.

J-016-026

Thank you for your comment. The Final EIS cumulative project list has been updated.

J-016-027

Thank you for your comment. See response to previous similar comments. The text in the EIS, along with supporting Figures showing general location, provides an appropriate level of information for the reader and impact analysis.



Traffic



J-016-029

determined from the DEIS.

The DEIS should address impacts to Port truck movements (including military shipments) on the roadway network due to construction activity on Routes 1 and

- The DEIS should formally address impacts to Port container movements (including military shipments) due to bridge replacements on Route 1 north and south of Pouts 11
- The DEIS should assess the impacts of constructing a new power plant at the Cabras/Piti site since it may have some affect on traffic flow on Route 11.
- Table 2.5-4 is further evidence of overlapping schedules between GRN activities and Port repair and maintenance work. Note Route 1 and 11 improvements shown as being completed in 2011.
- The timing of improvements to Route 11 and the intersection of Route 1/Route 11 shows implementation in 2011. Upgrades to Route 1 north and south of Route 11 are expected in 2013. These coincide and conflict with the Port reconfiguration, maintenance and repair project construction schedule (2010-2013).
- The DEIS states that construction of the GRN improvements "would occur from 2010 to 2016 with peak construction in 2013". This coincides with the Port's reconfiguration, maintenance and repair project construction schedule of 2010-2013.
- The level of service (LOS) for the intersection of Route 1 and Route 11 is shown to be at Level E by 2014 during the PM peak hour which indicates heavy congestion and high delays. This high level of congestion may affect commercial truck movements to/from the Port.

J-016-030

1

J-016-031 |

Noise

 Noise impacts to public beach areas near the Port and on Port 24-hour security personnel should be evaluated.

 Cumulative effects of noise on sensitive receptors during the overlap of construction timeframes from the JGPO project and the Port reconfiguration, maintenance and repairs project should be assessed.

Air Quality

- Impacts to air quality as a result of increase in power generation should be addressed in DEIS executive summary
- DEIS does not address accommodation of traffic into and out of the Port during the overlapping period when the Port reconfiguration, maintenance and repair project will be constructed and the JGPO project will be taking place.
- Increased queuing on Port property due to potential could result in air quality issues

29

Guam and CNMI Military Relocation DEIS/OEIS

J-016-028

Thank you for your comment. The DoN is developing a Micronesia Biosecurity Plan (MBP) to address potential non-native invasive species impacts associated with this EIS as well as to provide a plan for a comprehensive regional approach. The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks. It is being developed in conjunction with experts within other Federal agencies including the National Invasive Species Council (NISC), U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS), the US. Geological Survey (USGS), and the Smithsonian Environmental Research Center (SERC). The plan is intended to be a comprehensive evaluation of risks in the region, including all Marine Corps and Navy actions on Guam and Tinian. For additional information on the MBP and existing and interim measures for non-native invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-016-029

Thank you for your comments. The FHWA will coordinate all off-base roadway projects in the area of the port with the PAG.

J-016-030

Thank you for your comment. Noise impacts are expressed as noise levels at the nearest sensitive receptor. For each project analyzed in this EIS located near the port, the nearest sensitive receptor were residences or schools and located closer to the project than the nearest beach. Port 24-Hour security personnel, would likely receive elevated noise levels from port activities. Most activities associated with the proposed action would be similar. OSHA regulations require hearing protection, port





and should be evaluated

- Impacts on air quality at the public beaches adjacent to the Port should be evaluated
- · Best management practices (BMPs) for air quality should be included.

J-016-032

- Contaminated Materials
 - Likely soil and groundwater contamination between the Port and Route 1 due to
 Cabras Power Plant's (Piti) history of non-compliance with PCB disposal
 requirements and utility poles along Route 1 which potentially contain PCB
 transformer oil. The DEIS does not state the potential for contamination to affect
 Port property. The DEIS does not state who is responsible for clean-up of potential
 spills or other releases of contaminated materials from cargo containing
 contaminated materials on Port property. The DEIS also does not provide specific
 information on how spills or other releases of contaminated materials on Port
 property will be prevented.
 - It is recommended that delination of responsibility of potential fuel spills on Port
 property as a result of power plant fuel transport be addressed.
 - Similarly, clarification should be determined as to which party is responsible for clean-up and remediation to Port caused by hazardous spills or other incidents as a result of JGPO project-related hazardous waste.
 - It is recommended that more detail regarding larger spill prevention and mitigation be provided in the event of a larger spill in Apra Harbor as a result of the aircraft carrier berthing project.

UXO

- The DoD and GEPA Area of Concern (AOCs) site inspections at or near the Port should be addressed.
- The aircraft carrier berthing section discrepancy between "no impact" versus "less than significant impact" for UXO should be resolved.
- UXO expert should review findings in the DEIS document.

Sec

J-016-033

Security

- The DEIS should define what force protection measures mean and should be applied consistently.
- · Discuss how security measures at the Port will impact the Port.
- Clarify how procedures for missions related to the Port's Strategic Port designation will impact the Port.
- State whether or not additional security measures will be needed at the existing
 power plant as well as the proposed new power plant adjacent to the Port and

30

Guam and CNMI Military Relocation DEIS/OEIS

employers require employees to wear hearing protection in high noise areas.

J-016-031

Thank you for your comment.

The DEIS executive summary provides a general overview of the nine volumes of the DEIS. It is not possible to include all issues of concern in the executive summary and Section ES-7 refers to the reader to the Volume 2-7 for impacts.

The traffic analysis covers traffic forecasts in Apra Harbor area, and therefore traffic in and out of the Port area was considered in the analysis. As the air quality impact analysis focused on the worst-case congested locations, an analysis of other less congested locations, such as in and out of the Port is not necessary as emission levels would be lower. Volume 6 provides details of impacts from roadway projects. impact analysis focuses on the worst-case congested locations and analysis of other less congested locations is not warranted. Volume 6 details the roadway project impact.

Marine vessel traffic forecasts, including material transporting vessels, were not considered because the emissions from these operations are not under the control of DoD and therefore not subject to the general conformity rule analysis. However, the results of the Port operation analysis, based upon the historical number of ships the Port handled and not on air emissions, was determined to be less than significant in the FEIS. In addition, the commercial port transporting service air emissions do not meet the indirect emissions criteria required for inclusion in the general conformity analysis. Port air emissions are not under the control of DoD, therefore, were not calculated in the air quality sections. The FEIS added an explanation indicating why commercial port transporting service air emissions were excluded.





J-016-034

J-016-035

J-016-036

whether these measures will affect the Port.

- The DEIS should define what force protection measures mean and should be applied consistently.
- · Discuss how security measures at the Port will impact the Port.
- Clarify how procedures for missions related to the Port's Strategic Port designation will impact the Port.
- State whether or not additional security measures will be needed at the existing
 power plant as well as the proposed new power plant adjacent to the Port and
 whether these measures will affect the Port.

Utilities

 The DEIS should evaluate how utility demands and relocations as a result of the JGPO actions will affect current Port operations as well as future Port modernization including the reconfiguration, maintenance and repair project.

Visual Resources

 Visual impact assessment appears consistent with the Port reconfiguration, maintenance and repair project.

Socioeconomics

 Information provided on socioeconomics appears to be consistent with the the Port reconfiguration, maintenance and repair project.

Historic and Cultural Resources

- Presentation of JGPO Area of Potential Effects and known historic properties in Apra Harbor should be clarified. The DEIS needs to be specific as to the Area of Potential Effects for each alternative in Chapter 4, and needs to precisely plot locations of known historic properties.
- Route 11 on Cabras Island should be changed from a "Medium" probability for encountering undocumented archaeological resources during construction, to a "No/Low" probability area.

31

Guam and CNMI Military Relocation DEIS/OEIS

J-016-032

Thank you for your comment. The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including fuels, lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, PCBs, nuclear materials, and other hazardous substances. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and substituting them for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and regulations, DoD has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage, spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are fully described in the EIS document (Volume 7). Note that BMPs and SOPs are not considered "mitigation measures" because these actions are being done as part of existing laws and regulations and not as part of new "mitigation". However, if a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are mitigated quickly and effectively. In many cases, part of remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to

				REVIEW COMMENTS SHEET		
No. Van	Chpt	6 Py 200	Line, TN, Fig	Comment	Commenter (last name)	AgencylOrg
J-016-043	ES	E3-5	Pengraph 2	Force protection and intigating measures should be described at a lower level so that non security reaches of the document understand what is required. It is not to be a secure of the document of the docum	-Walsh '	P4
2 1	1	1-39	Section 1.9.3	is military and those affected are communicating.	Peck/Rosenthal	198
3 1	1	1-45	Table 1.11-1	OOM/DS sits in 9 nm from Apra Harbor, includes usage by Port projects.	Peck	/og
			Section 2.2.3.1			1
4 1	2	2-12	(Dredging)	One of the scenarios eval-wised in the DBS considers 2005; beneficial re-use of the IGPO divelged material for PAS's expension program.	Peck/Roserthal	76
				Consideraciding additional security measures necessary for public utilities (electricity) and services (such as 91.1 and roads) that serve the US		
5 1	2	2-26	Section 2.6	military needs.	Walsh	78
J-016-037	2	2 27	Section 2.6	Consider whether or not the roadways that support the US military need to be constructed in a different manner (beyond OPM and PHWA - quickless) to support the US military's needs. Obtained to support the US military's needs. Obtained to support the US military's needs.	Walth	28
7 1	-2	2-31	!Section 2.7.3.4	Port.	Peck	PS
8 1	2	'2-95	2.72.1	Base it would be imported to Guarn via ocean transport through the Port.	(Feck	IPB
J-016-038				DES states that grading equipment, trucks, cranes and small equipment would be imported. It is assumed that this equipment will come		
9 1	2	2:36	2.7.2.2	through the Port.	Peck	re
10 1	3	3-12	Figure 3.3-2	Purple area shown on the legend is not visible.	Welsh	PB
11 1	3	3-11	Figure 3.3-1	The proposed SDZ location in not clear on the map.	'Walsh	PB
12 1.	85	E5-18		Deparities dreckling at Poteria Point.	Posenthal	FB

1 tol

ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. In fact, many such clean-up efforts are underway. As part of the clean-up process, the DoD provides various opportunities for the general public, stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs) where interested party questions and concerns may be communicated. These comprehensive actions (e.g., BMPs, SOPs, etc.) will protect public health, welfare, and the environment from adverse impacts associated with the use of hazardous substances. Regarding potential impacts associated with hazardous substances and the various potential actions (construction, operations, etc.) have been identified in Volume 2, chapter 17.

J-016-033

Thank you for comment. Additional information has been added to the discussion of the Commercial Port in Volume 6 of the Final EIS.

J-016-034

Thank you for your comment.

J-016-035

Thank you for your comment.

J-016-036

Thank you for your comment. The potential impact areas for each alternative are shown in Figures 12.2-1 (Alternative 1) and 12.2-2 (Alternative 2). The exact location of archaeological sites has not been depicted on maps distributed to the public in accordance with the Archaeological Resources Protection Act. The probability area at Route 11 on Cabras Island has been changed to "Low/No Probability."

						BEVIEW COMMENTS SHEET		
		Vel	Chpt	Pg	tine, Tot Fig	Constraint	Cornector (last carse)	АзкапріОнд
J-016-	430	2	2	2-68	Section 2.4.1.1	Sincouring (invasive species) Plan needed for ACE decidown project; related to exports and imports. It is assumed this would impact Port.	Peck	PB
J-016-	043			2.74	Paragraph 1	This scens to be one of the few locations in this values that discusses specific force projection actions. Consider whether more aroun/functions should have this level of medificity.	Malsh	i _{pa}
3-010-	043			2-74	Principle 1	DBS states that PAS has prepared a Master Flan with progosed 18 acres of fast land to support new commercial port cargo handling in Agra	Walsh	78
		1				Harbor. Feterifal in water expansion project is an ambitious endoaver that may be confirmed with cost, feasibility and ecological concerns and		
					Subsection: Dredged	also requires full environmental documentation; up to 1.5 may of fill may be needed. Also mentions PAG-Navy MGU concerning Navy supply of		;
	3		2	2-91 and 2-92	Material Disposal	fil.	Peck/Rosenthal	PB
						This seems to be one of the few locations in this volume that discusses specific security measures. Consider whether more areas/functions		
	4		2	2-104	'Paragraphs 1 and 2	should have this level of spacificity.	Walsh	P9
					1			
	_		t.	2:004	Subsection: Proposed Goorations	This seems to be one of the few locations in this volume that discusses specific force protection actions. Consider whether more areas/functions is have this lovel of specificity.	.Water	;
	3		2	2-109	Section 2.5.2.8	trastic have this tive; or specificity. Consider whether the ferce protection capabilities need to be described.	White	PG
			4-	3-13	-Paragraph 1	Consider whether the ferce protection capabilities need to be described. Lieuwfurtion: reparts only known occurrence on Guerr located at the Part in 1993.	Puck	P3
				4-63	Section 41.4.1	DES states Apra libribor is businest port in Microsopia; it is assumed that PAG is part of this.	Peck	P3
				144	-Section 4.1.4.1; Last	Post Authority Beach is impaired that to bacteria with grouper than 10% of samples exceeding Goom Water Casality Standards. This is an	766	
	4		4	4.41	Peragraph	envicomental characterization of Port property.	Peck	P1
	2					Under discussion of surface water, DCIS mentions Commercial Port Bridge stong Rocks 21 is at the edge of the 100 year fixed perse, Also	the second of the latest of the	representation to the
					Subsection: Surface	mentions that most of Apra Harker is within this page and that there are no base flood elevation determinations. It is assumed that the Port is		
	10	1	4	4-54 and 4-55	Water	Included (and this is correct).	.Feck	.98
					Subsection: Non-DoD			
	11	_	A	4-83	Land (Construction)	65,000 CY of self All imported for range complex. It is assumed that this is through the Pers.	Peck	76
				4-123 and 4-				
	12	. 1	4	130	Section 42.8.3	Consider whether the ferce protection capabilities need to be described.	.Wubsh	'PB
J-016-	040							1
1-OTO-	UHU	2	5	5-3	Perbgraph 1	Partion of Guern within a 2.2 mile radius of Power Plant in PRI (i.e. the Port) is within a non-uttainment area for 50, air polision.	Peck	PB
	14	-2		5-28	Entire Page	The DEIS does not analyze essessing on Port property into and out of the gate as a resist of selectrose in cargo that will occur.	Noel	PB
	15	2	Dr. w. v. no.	5-24	Paragraphs 1 and 2	ISPO should analyze the cumulative effocts of the Port remnifiguration, maintenance & repair project.	Noel	PB
	A			6/14	Tel94-6.2-8	JGPO DEIS did not evaluate noise Impacts at the public beadles near floute 11 and the Port. Additionally JGPO DEIS did not evaluate naise Impacts to the 74-hour security presence at the port.	Marie	i-
J-016-	041		.6	6/14	Subsection:	impacts to the 74-hour security dresence at the gort.	Noel	76
J-016-	042				Submerged Lands	Mentions that shipping is addressed in Volume 2. Chapter 14 under Marine Transportation. It is assumed that shipping through the Port would be		
J-010-	0,42			8-5	'Ownership	Included.	Peck	on
					Subsections		1000	
					Land/Submerped Land			
					Ownership and	Y .		
	18		8	8-35	Varagement	Mentions that PAS manages some of the submerged lands in Apra Harbor and Commercial Traffic in the Harbor.	-Peck	PB
					Mary and a second second	Mentions that Explosive Safety Quartity Distance (ESQD) Arcs may encumber the margation channel through portions of Hotel Wharf at the Port		
	19		8	8-42	Subsection: ESQD Ares	Authority of Guam.	Pock	PB.
		100 100			V 11 47 5	이 마른 사람들이 하는 사람들은 사람들은 사람들은 사람들이 아니라 하는 것이 되었다면 살아 있다면 하는 것이다.	15 5 ENGS 7 SV	Part of the
				13.	3 PO 12 3 3	Pouts 11 along Commercial Port is to be rehabilitated. Roses 21 intersection improvements will also be occurring along with bridge replacement		We were tone
	20	11.		\$-47	Section of Charles	and parament strengthening slong Boute L. Timing of this with Fort melateration and repair and reconfiguration project was not considered.	(laserthal)	- FR
J-016-	027					Roadway improvements are planned to impor Port access roads (including Route 3.), and Route 3.). Manifens two-lane roadway rehabilitation		,
7-0TP-	03/	I				project on Route 11 from the Port to Route 1. Intersection improvements will be made to Route 1 and Route 11. Bridge replacements and pavement strengthening will occur along Route 1 and Route 11. It was not clear whether DES considered the offect on the Port's maintenance.		1
	21	,		R-IR	Paragraphs 1 to 3	pavement strengthening will occur along Route 1 and Route 11. It was not clear whether DES considered the offect on the Port's relationance, recoil and reconfiguration project.	Peric/Resenting	25
	**	/2		- 540	. magagins 1 to s	reper and recomparation project.	reconnectifi	30

Thank you for your comments. The US military's needs, particularly in the movement of military vehicles between military installations, were taken into consideration in deciding on the roadway improvement projects. Select bridges will be replaced to increase their carrying capacities and their widths. In addition, select roadways will be strengthened and widened.

J-016-038

Thank you for your comment.

DoD would coordinate capacity and throughput issues with the Port.

Dark purple is shown to highlight the preferred alternative.

The proposed SDZ is shown as a dashed line.

J-016-039

Thank you for your comment. DoD is committed to developing the Micronesian Biosecurity Plan and developing interim measures to prevent introduction of non-native invasive species.

J-016-040

Thank you for your comment. As noted in the comment, parts of Apra Harbor, including the area proposed for the aircraft carrier berthing, are within a SO2 nonattainment area due to emissions associated with the operation of the Piti Power Plant (see Figure 5.1‹1 of Volume 2). Under the GCR, emissions associated with all operational and construction activities from a proposed federal action, both direct and indirect, must be quantified and compared to annual de minimis (threshold) levels for pollutants that occur within the applicable nonattainment area.

					NEVIEW COMMINISTREE		
No. 2	vet	Chat	Pg	Une, Tol. Fig	Contract	Consperier (last name)	Agenty/Qrg
-016-042	2 .		845	Subsection: Beneficial Bruse (Lost Bullet)	States that PAG Missaer Flan Includes a proposed 16-stre area for expension of fast land to support new convencial port cargo bandling in Apra- Histor.	Peck	PS
-016-043	3	10	10-61	Figure 10.1-23	Indicates east end of commorcial port area is characterised as seruis forest / Identifies vegetation communities on Port Property.	Peck/Sykora	PB
25		10 10	10-69 10-64 10-66	Table 10.1-20 Figure 30.1-24 Figure 30.5-25	Indicates the many of peoples of Graphiums that are listed in threathered, indeappared or candidate species on hard listed Guern. Figure Indicates a local biologic group on the first. Brook Listed and the desting are not the first. Brook Listed and a report of the control of the control of the control of the control of the first and chargements are determined by the control of the forest and chargements are determined by the control of the control o	Sykora Sykora Peck/Sykora	PS PS
27		-10	10-67	*Table 10.1-22	Indicates there is one endangered bird species (Mariana conneces apported) within Apra Harbor region SRSA for proposed SRM project.	Sykora	76
-016-039	1	10	10-80 and 10 81	Section 10.2.1.3 (Bullets)	Monthles parential harm to fragile exceptions on Suons from the introduction of invasive species due to increased traffic among the inlands from the movement of personnel and materials. It is inferred that materials would move through the Port.	Peck/Sykora	PS
25	2	10	10-90 and 10 82	Section 20.2.1.3 (Bullets)	States that existing control and containment activities at air and sea ports for 975 are insufficient to deal with the risk associated with the interesting control and personnel receives from Quan to other valents le createdings. Inference is that this is a buyer for Port superes. Observed a scholar strate for Privacy is pecied on Quan on other behavior of projects, evalenters and household posts,	Peck	PB
50		36	10-126	Paragraph 1	Assessor's some would move through the Port.	Peck	:PB
21	2	10	10-136 and 1	Subsection: Invasive Species Avolitance, Minimization and Control (Bullet: 5 and 6)	Nany would stally the gaint of distribution part in the event of DOO-chiesed vehicles and equipment having Guern without imprecises by USDA and Wildlife Sovices, literarce in that seem of this could be playped through Part.	Peck	Ph.
	1			Subsection: Invasive Species /woldence,			
32	. 3	10	10-137 to 20- -139	Minimization and Control (Bullets)	States the need for a comprehensive approach to control invative species exports, imports, and screed. Inference is that some of these goods would go through the control of the control o	Peck/Sykora	95
33 34	2	- ii	11-42 11-43	Fig 11.3-11 Paragraph 6	surrounding the Port. Also, cord area of special significance is reser the glass breakwater. All of Apra Harbor is designated on Essential Psh Nobber (SPP).	Petic/Sylone Sylone	188
35 36		11	11-43 11-46	Paragraph 7 Paragraph 3	The Post area contains highest level of trooplanktors, other organisms include firstly litroue, shoupout areas and obserpondes (molluslas). Threatened given ups turth and endorgated havelastill past turtle are special status species reported in Agra Harbor.	Perk/Sykoro Sykora	78
37	3	-11	11-51	Peragraph 1 Subsection: Outer	Abections Route 11 readway improvements would insect Port traffic.	Peck	FB
38	2 2	11	11-67 11-69	Apra Harbor Figure 11.2-3	Less than significant impact to marine flore, found, invertebrates and EPH for Attarnative 1Mentions sea turbs needing near Fort.	Sykoru Peck	PS PS
40	2	- 11	11-71	Subsection: Operation Subsection: Non-	Martines that Increased ship traffic may disturb organisms fiving in upper water columns, Obsesses Regional Biosecusity files and Rick Analysis for terrestrial and markes biomountly for commerce to Micronesia obsesses Perss. Inference	Sylona	166
41		- 11	11-71	Rative Species Paragraph 1	is PAG is a player in this. Dredged material disposal sections include 60 for the PAG expansion program.	Peck/Rosenthal	P6
-6	2	13	11-88	Table 11.2-13	Marrions that Novy department no adverse effect on EHH during construction and operation for Acro Nation. Unclear what find of Havy propositions must be fellowed to obtain account to Paget Cave. Unclear whether accords presented by added to Paget.	Sykora	PB
'44	. 2	:12	12-49	Paragraph 2	Cove.	Welsh	PB

Attainment pollutant emissions from construction and operation activities associated with Air Carrier Berthing on Guam would be well below the significance criteria of 250 tons per year (TPY). The predicted nonattainment SO2 emissions would be below the 100 TPY de minimis level within the nonattainment area. Therefore, all project-specific air quality impacts are considered less than significant for all areas for this action.

J-016-041

Thank you for your comment. The noise analyses provided the noise levels to the nearest sensitive receptor. The closest sensitive receptors adjacent to the projects in the Apra Harbor area are mostly residences and schools. The beaches by Route 11 are farther away from the noise sources and would experience less noise than those described in the EIS. Construction workers and visitors in high noise areas, such as on a dredge, would require hearing protection in accordance with Occupational Safety and Health Administration (OSHA) regulations. If the Port 24-hour security enters into high noise level areas, hearing protection would be required.

J-016-042

Thank you for your comment.

Comment 20 states the impact of the proposed action roadway improvements on the timing of Commercial Port Projects was not considered. Volume 2 Chapter 8 of the Draft EIS focused on land use existing conditions and impacts. The planned port improvements are considered under the cumulative impacts section in Volume 7. The initial upgrades to the Port, which would largely deal with demolition of older facilities, reconfiguration of laydown areas, and traffic/security improvements to increase cargo flow, were scheduled to start in the near

DUS EVIEW COMMENTS SHEET

	700Museum	i beine succ	Numerolane	- DESCRIPTION OF	AND POST OF THE PARTY OF THE			
	No.	Val	Chet	Pg	Eine, Thi, Fig.	Command	Communiter (last manu)	Agency/Or
				13-45 through		General observations: The affected environment discussion is adequate and correct. Virwpoints in common with Port project include the Asian		3
	45	2	13	13-65	All Fages	Bay Overflook, Cabras Island Scenic Vista, Crote Point Scenic Vista, and Mount Chackso Scenic Visa (Figure 13, 3-1).	Stewart -	93
	46		-13			Heraldes existing visual quality in the Route 1/12 intersection in the Port area. Characterises it as moderate to moderately low in industrial		
	46	.2	13	13-54	Table 18.1-13	environment; not considered a big issue. General observations: The environmental consequences discussion does not conflict with findings expected for the Part project. Issues are	.Peck	.Pa
				13-70: 13-73:	Table 18.3-1: 18.2-2:	repend observations; "The environmental consequences discussion does not conflict with findings expected for the Port project. Issues are adequately adcressed and no missing information was noted. Agree with finding that no significant impacts are articipated in the Agra Narra		
	47	2	28		13.34	accounting accretions and no making information was noted. Agree with finding that no significant ampacts are employed in the Agra Barbar	Stewart	-00
	48	3	13	13-63	Entire Page	General observations: Potential mitigation measures are sufficient and do not present adverse issues for the Port project.	Stewart	P3
	49	-2	34	14-1	Section 34.3.1	Describes the effected environment at the Port.	Puck	22
					Subsections		1444	
					Communical Port			
	50	2	-14	14-2	Facilities	Provides a description of Port facilities.	Peck	P3
						Describes vessel traffic in terms of types, Pert visits, inter-island shipping, ship rotations, and rarge. Provides history of vessel calls from 1975		
	52	2	34	14-3 and 14-4		through 2008. Discusses represent vested capacity of marinus, approved and harber of refuge. Does not state any inspect.	Peck	·P3
	52	2	34	16-5	Paragraph 3		Peck	:P3
						Equivocates on number of vessels and impacts as relates to impacts on merite transportation by starting: If the maximum annual number of		
						jessels that would visit the harbor during the centerisation period exceeds the arrest maximum since 1995, then a significant impact to marine, transportation may occur. If the maximum arrest number of vessels that would visit the harbor during the enbarkation period is equal to or less		
						than the assess maximum number of vessels since 1995, then there would be a less than significant impact to makine transportation. Overall,		
	53	>	14	14-7	Partgraph 1	does not address any potential impacts.	Perk	4.
					Subsection	word not appeared they became at parets.	Peck	
	54	2	34	14-8	Construction	-Number of vistad trips to the Port during construction (127 for dredge transport).	Resembal	.02
	55	2	14	14-8	Section 14.2.2.3	Status an expectation of no impacts on maring transportation in Agra Harbor.	Perk	.93
		-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	56	2	24	10-8	Section 14.2.2.4	Identifies an addition of 127 vessel trips to transport design material with less than significant impact on marine transportation in Apra Harbor.	Peck	Pl
	57	2	134	14-9	Parograph 4	Number of container vessels projected during operation is \$24 each year between 1965 and 2008.	Recordinal	P3
110	044 l					Projects container traffic 2008 through 2018 and identifies Port as the source of the statistics, includes commercial and military containers.		
170-	U44					Projects an average of \$56,636 containers per year during embarkation with a peak of 100,000 in 2015. The projected average number of		
	- 1					containers in double the average number of containers from 1995 to 2005 but DEIS states less than double number of ships due to increasing		
	58	2	14	14-9	Table 14.2-1	vessel capacity. This ignores vessel capacity constraints due to existing dredge depths.	Peck/Resenthei	P3.
								200
	39	2	-14	14-9	Table 14.2-1	Military container movements increase significantly through the Port of Guarn repair and maintenance construction period (2010-2013).	Lo	PS
			:24	140		States that due to decline in vessels visiting the Fert since 1995, the number of visits of amphibious vessels and committee think to Apra Marker		
	50	2	-24	146	Paragraph 2	will have less than significant impact on marine transportation in the harbor.	Peck	93
	- 1					JGPO QBS statement "Not expected there would be twice as many visits by container ships to the Part of Suam during embartation period because the capacity of container ships has been increasing". Statement does not trice into account that vessels need to lighter to enter the Part		
	-61	2	14	169	Paragraph 4	except the capacity or container steps has been recreating". Statement other not time with account that vessels need to lighter to enter the Part and therefore, there may not be sufficient draft for vessels to nucleute.		
	62	2	14		Paragraph 1	Projects no increase in military vessel traffic to Port and declining or level non-military vessel traffic to Port.	Rosenthal Peck	.93
		OF BUILDING	-			States declining vessel shalling from 1995 to 2006. Individuely projected increased traffic from 2010 through 2017 including container chipments.	resa.	
						with versel traffic highs less than that experienced in 1985. Indicates that examine traffic associated with operations and construction would have		
			36	14-18	Puragraph 2	Less Than Significant Impacts (LS) or marine transportation in Agra Harbor.	Peck	ies
	53	2				General observations: the effected environment consistent clearly characterises the demographic and employment characteristics of Guern		
	53	2		16-1 through				
	64	2	-16	16-1 through '16-36	All Pages	Including the Nevel Base and Port area, which is identified as "Central."	Stewart	01
	65 65	2			All Pages		Stewart	93

term. However, the recent denial of grant funding from the U.S. Department of Transportation is forcing the Port to reevaluate its planned modernization. Longer term improvements, including pier refurbishment, construction of new deep draft piers, and dredging to support such construction, have yet to be programmed. The Final EIS continues to consider port improvements under the cumulative impact section in Volume 7.

J-016-043

Thank you for your comment.

J-016-044

Thank you for your comment. If the number of containers per ship remains the same as during the period of 1995 through 2008, then approximately 269 container ships would visit the Port of Guam during 2015. This number of container ships would be more than double the average number of container ships visiting the port annually. However, since there has been a substantial reduction in the number of ships visiting the port since 1995, there would be less than a significant impact on marine navigation in Apra Harbor.

The evaluation conducted in the EIS regarding the potential impact to marine transportation from the increase in number of container ships associated with the relocation of the Marines assumed that there would not be an increase in draft for vessels to navigate.

PARTY COLORATION SHEET | Command | Command

J-016-045

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other federal programs and funding sources that could benefit the people of Guam.

J-016-046

Thank you for your comment. The figure number in question is unclear. Therefore, a response cannot be given at this time.



Guam and CNMI Military Relocation DEIS/OEIS

J-016-047

Thank you for your comment. DoD understands and recognizes the significance of cultural and recreational sites located on DoD property in Guam. Restricting access to certain DoD areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to DoD lands that contain cultural sites consistent with safety and operational requirements. Access will be granted at approved times such as when the lands are not being used for military training. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

DEIS

				REVIEW GOMMENTS SHEET		
No. Vol	Capt	Pg	lave, Tol. Fig	Comment	Commenter (fast name)	AgencylOrg
J-016-039	- 2	2-52	Subsection: Security/Biosecurity Paragraph 9	Fost paragraph under Security/Einsecurity describes fances. Level of detail should be carried throughout the document for different energy functions being considered. Annierent release of destroises may could intense within Arms Harbon.	Walsh	PS .
4 4	10 11	10-12	Bullet 1 Table 11.1-5	registed that investors produce met factory from this produces of ourselves and equipment. Spinner displays is listed as produced produces of ourselves and equipment. Spinner displays is listed as produce of greatest concernation need, noted on regular basis in Agra Harbor. General observations Aircraft bearing would occur in Para Harbor. All body once some elements would be introduced into the entiring	ightern Içkern	m m
	13	134	Table 19.2-3	Insularage and others would be removed, the result would be no significant impact. The environmental consequences discussion does not conflict with findings expected for the Part project. Issues are adequately addressed and no relating information was noted. Agree with finding that no shall and insular are acceptant and acceptance of the Agree with finding that no shall make a support or an experiment of the Agree with finding that no shall not insular an acceptance are acceptant.	Brant	Pa
J-016-045 13	16	16:10	Daregreph 2	Types of tourism restrictions that we did be enserted dasing carrier ingress and express should be enderseed. General closerestions: The environmental consequences classastic does not conflict with findings expected for the Port project. Issues are adequately addressed and no message information was noted. Socioconomic impacts would renge from prijeticant but mitigastable, to beneficial.	Malah	PR .
7 4	16	15-18	Table 16.2-23	acquiring abortions can oritizing monitorion was review. Solicitorion where the property of th	Breart	PB .
			Section 18 2 2 5	Discussion of death or injury to public could result if UKD encountered on land during construction and in writer during designing operations in Again Harbor, Review of historical records will be performed, conveys will be conducted for remove musticons and explosives of concern (MICQ) if nearest indirect processing. Described we seen subject (ICQ) is borned, this could consensible after the Port has any all consens to the Port.	Toloron.	_
J-016-046 I	18	18-11 and 38- 12	Tables 18.2-1, 18.2-2 6 18.2-3	Appears to be incuralistical information in tables. Tables 18.2-1 and 18.2-2 indicate no impacts during construction and operation from UNO.	Sykora	76

	- NEVER COMMINISTRICT								
	No.	Vol	Chot	7	Live This Fig.	Cognet	Commenter (last name) Agency/Crg		
J-016-0)48	5	.2	2-5	Section 2.8.2.2 Figure 2.3-1	Types of physical ensures that are necessary to meet the munificus storage force groteston requirements should be provided. Figure a surface. Indicate how the coloidon will be made as to scrady respirances for obstacl constraint and when the military interests will supervise out to	Welch P8		
J-016-0)49	.ķ	12	. 12-2	Section 12.2.1.2	interior new to extend the new termination of the AMDIF would be short term in duration and make in marking impacts, both continuous and General Observations: Construction of the AMDIF would be short term in duration and mark in marking impacts, both continuous and construct. The visual vertifies for the operation and marking the affected by this construction. The environmental consequences discussion does	Webb) P8		
	4		.13	18-7	Table 13.2-1	not conflict with findings expected for the Port project. Issues are adequately addressed and no missing information was noted. Agree with finding that no impacts to visual resources sould occur. "Agreem's observationary for the Address, the conformation consequences discussion does not couldn't with findings expected for the Port project.	Stewart PB		
	5		16	16-19	Table 16.2-22	Issues are adequately softressed and nomissing information was noted, Scroberosenski impacts would sarge from hiss than significant to benefitial. The Port project is not expected to adversely impact socioeconomics or environmental Justice, therefore, there would be no additive considering impacts.	Sowert 'Wa		

Thank you for your comment. Added statement regarding special design features. Figure was modified to make it more clear.

J-016-049

Thank you for your comment. The DoD has a vigorous program of managing and protecting archaeological resources on its lands on Guam. Properties managed by the Joint Region Marianas, which includes Navy and Air Force managed lands, complies with all federal laws relating to cultural resources. Each installation has an Integrated Cultural Resources Management Plan that stipulates the standard operating procedures for evaluating resources according to National Register of Historic Places criteria and long term management of these resources. Because these resources fall under federal jurisdiction and access to many of these areas is limited, they are, in general, protected from vandalism, collecting, or other forms of disturbance that could occur when areas are completely open to the public. If historic properties would be affected by future projects, all installations would comply with the National Historic Preservation Act and go through the Section 106 process to avoid, minimize or mitigate adverse effects to these resources.

			MEVIEW COMMENTS SHEET		
Ma Va	Days Py	Unio, Tell, Fig.	Comment	Commenter (fest name)	Aganeyi
	100		Military buildup would cause an increased demand for Imported goods and materials lespecially construction pupplies, equipment and materials	private district and the	C. 1025
			that would be shipped through the Fort. It would also be required to support the construction workers and induced population increase.		100
			it dicates that many areas of the Port are at grassity or unusable. Also indicates that the Fort had plant to expelied and make interviewments arise	Sale Comments	
	Charles a		to the news of the military relocation but that the relocation aids impetus to an plement improvements and service the increased construction.	Service Control	1. 15.24
1 6	1-30	Ami Sty	and population.	Peck	PB
16-051			States that the structural integrity of the Commercial Port Bridge was not evaluated because it is a culvert. Therefore, within the document we		
10-031	2-107	Last Paragraph	are essentially lead to believe that we don't know its capacity to bundle the increased traffic loads associated with the buildup.	Peck	73
			Identifies bridges impacted by haufing cargo from the Port to younts throughout the island. Inforence is increased and hower cargo is coming	,	
3	2 2-108	Figure 2.5-1	through the Port.	Peck	79
			Discusses roadways with widening requirements due to increased traffic and preference for use as hack router for tracks handling cargo havied		
	2-109	Paragraph 2	from the Fort to points north on the island. Inference is increased and beavier cargo coming through the Port.	Peck	78
5 6	2-110	Figure 2.5-2	. Maps preferred track housing routes leading away from the Port. Inference of increased and heavier cargo coming through the Port.	Peck	PG
			Discusses the Guara Road Retwork containing Impetion routes for construction related transport consecting the Part of Guara with Navy and Air		
			Force bases, the Finesovan area, the Neval Munitiers Site, coverede betch clarify, rich curries and precast concre basel fabrication sites		6
			associated with the military buildup on the island, inference is key role the Port plays in the legistical support infrastructure and as a point of		
6 6	2 2-115	Section 2.5.1.7	origin in the Guarn Road Network.	Peck	196
4100 1100 100 100	41.41.4.		Guarr Roadway Network (GRN) Improvements No. 13 and No. 14 call for pavement strengthening of Route 1 near floates 11 and 6 which may		
76	2 2-120	Table 2.5-3	disrupt commercial and construction-related truck movements into and out of Port facilities.	Lo	PB
			GRN No. 4 and No. 5 would levelve assement strangthening of Route 11 from Route 1 to the Port entrance and intersection improvements at		
3 6	2 2-122	Table 2.5-3		to	19
			Table identifying the Route 11 paying strengthening and Route 1/11 intersection improvements projects. This is to blackle more and heavier		
9	2 2-122	Table 2.5-8	cargo passing through the Port.	Peck	PB
			Tarring of GRN improvements is shown, improvements to Route 11 and to the intersection of Route 1/Route 11 are slated for 2011. Upgrades to		
20 6	2 2-123	Tiesee 2.5-8	Route 1 north and south of Route 11 are expected in 2013. These coincide and conflict with the Port repair and maintenance project.	te	78
711.14.171.41.41	Date of the second	· Company of the contract of	First paragraph states that construction of the GRN improvements "would occur from 2010 to 2016 with peak construction 2013". This coincides		
13 5	2 2-124	Section 2.5.1.8	with the Port's repair and maintenance schedule of 2010-2013.	Lo	22
			Partner evidence of overlapping schedules between GRN attivities and Port regain and maintenance work. Note Route 1 and 11 improvements		
12 6	2 2-124	Table 2.5-4	shown as being completed in 2011.	*to	PB
13 6	3 30	Figure 3.1-3	States that the Navy owns potable water systems in the Part.	.Sykora	PB
14 6	3 3-15 to 3-17	: All Pages	Wastewater flow increases from military buildup count result in more issues with westerunitar and potable water system limits.	Sykora	.98
15 6	4 4-27	,All Pages Listed	There are references to Route 11 level of service on pages 27, 81, 107, 137, 153 and 165.	Pack	-PB
16 6	4 4-25	All Pages Listed	There are references to Route 11 compositor on pages 28, 29, 76, 77, 78, 79, 60, 107-111, 133-136, 149-250, 153, and 161-162.	Peck	PB
17 6	4 4-39	Bullets	Points to construction and population peaks in 2014. Infers cargo dermand peak in carse timeframe.	Peck	PG
18 6	4 4-41	Figure 4.2-1	island population increases significantly during Port of Guars repair and maintenance construction period (2009-2013). *Boute 1 volume-to-capacity (V/C) ratio would exceed 1.00 in Terresoring by 2014 surion is an area where Port of Guars trucks (commercial and	40	PG
19 6	4 4-66	Table 4,2-5	construction related) pass through. Relates to Alternatives 1 and 2.	Lo.	FB.
20 6	4 4-79	Figure 4.2-20	Similar to above - Route 1 V/C ratio is shown to be greater than 1.0 by 2014 (in fact > 3.15) which may affect Port bruck movements.	to	- 98
			Aevel of Service (105) for intersection of Route 1 and Route 11 is shown to be at "E" by 1004 during the PM peak hour. This high level of		
21 6	4 481	Table 4.2-10	congestion may affect commercial truck movements to/from the Port of States damp as above, LOS for Rouse 1/double 11 is shown to be at "1" by 2014 for the M4 pout hour. Such high level of congestion could influence truc	lo	PB
	4 4-207	Table 4.3-26	makement efficiency.	Lo.	793
			Similar to Comment III where Y/C ratio is shown to be proster than 1.0 by 2014 during the PM gods boar for Albertative II. May affect track	- Toronto - Control	1.5
44 9					
23 6	4 4-328	Pigure 4.2-52 Paragraph 4	inscrements to from the Port of Gream. XRPO should analyze the curvalentes effects of the Port reconfiguration, maintenance and repair posient.	lo	75

J-016-050

Thank you for your comment. Volume 7, Chapter 4 describes the cumulative impacts of the proposed action. The port improvements are included in the cumulative project list.

J-016-051

Thank you for your comment. No as-built information is available for these structures and it is assumed that this culvert was constructed to the AASHTO design loads applicable at the time of design. The AASHTO live load design will accommodate the Guam legal loads. If a special vehicle is required to cross the culvert, a permit would be required and the loads would be analyzed.

An inspection of the culvert in early 2010 indicated the structure to be in good condition. The depth of the earth fill on top of the culvert will distribute the vehicle loads. An inspection and weigh station will be constructed at the port to monitor the weight of the vehicles to ensure the loads are within Guam's legal loads and design loads.

DBS

						Marie II Comment of Street		
	No	yel	Chpt	Pa	Jee, Tbl, Fig	Connent	Commenter (last navee)	AgancyiO
-016-0	043.	4	.7	7-36	Subsection: Apra Hartor	The JGPD 265 does not analyze quoting on Port property laws and out of the gate as a result of an increase in cargo that will occur. JGPD 085 of not evaluate noise process at the public beaches new Res. 11 and the Port. Additionally JGPD 085 did not evaluate noise process.	Noti	76
	25	6		81	Une 11	to the 24-bear tecurity presence at the Port.	Noel	98
	27	5	15	15-24	Table 15.2-9	General conservations: Utilities and off liber randowsy construction would cover within the same general fineframe as the Port project and its additionable that the second property of the second conformation on the issued environment to the second conformation that the second property of the second conformation that project and second part of the second conformation that the second conformation are used for environmental that project is second conformation area would be reinformed. This expected many disease date of the Port project. Issues are adequately independent on the second conformation of the Port project. Issues are adequately independent on the project of the Port project. Issues are adequately independent on the project of the Port project. Issues are adequately independent on the project of the Port project, in the Port project of the Port project on the Port Port Port Port Port Port Port Port	Sewart	10
	1				Table 17.2-17	General debenvations: The invivorsemental consequences discussion does not conflict with the first rigis expected for the Prot priest, issues are subsequently all control and no missing information was made. Subsequently all composts would range from significant to be beneficial. However, the Prot priest is not supercased to selevestely impact sociaeconomics or environmental justice and therefore there would be no additive currentative impacts.		
	2B			17-15 and 17- 29 through 17		engaces.	Stewart	70
	29	-6	17	30	Table 17.2-35	General observations: Potential mitigation measures are sufficient and do not present adverse issues for the Port project.	Stewart	PB

DBS

					MENTAL COMMENTS STREET		
Va.	Vol	o.	Pg .	are, Tot, Fig.	Connect	Commentor (last name)	AsensylOn
λ.	7	2	2-2	Table 2.1-1	Then 33: States that surveys will be conducted to identify and correct ordinance from the work site; previously in volume 4 it was detailed that jammays will be conducted only if evolve indication a requestly. The solds does not indicate BMFF or invarience articles to AU, if there are BMFP to misimize potential effects to AU negest adding these to the	Sukora	PB
L6-04	O L 7	2	2-2	Yable2.1-1	rable.	Noel	PS
		. 3	3-47	Entire Page	Type of carigational certrictions that will be in place during airtraft carrier transits should be addressed.	Weish	PB
L6-04	4?	3	3-70	Section 3.3.17.1	States that established SOPs implemented prior to construction would entigate the impact from UKD to "less than significant".	Sykora	PB
2		4	entire table	Table 4.3-1	Port mulatenance, regain and reconfiguration project is not included in the correlative effects analysis and logistics.	Rosenthol	PE
5	l _y	4	4-25	Untire Page	General descriptions: the curvative impacts discassion does not conflict with findings expected for the Port project, its uses are adequately addressed and no missing information was sated. Agree with finding that owned, impacts not visual resources would be misor and no algorithms. Empacts are anticipated in the Agree is tasked area.	Stewart	PG
2	7	4	4-20 through 6-25	All Pages	General Observations. Congues a closes that the acconcernorising report of the perimental internation and the bear into a published inspect in the commander present inspect and the label before a popular to require the report of internative training may be a social conservation report. Internative project, including the Anni Appell was not appeared to the provide including in the confidence injects. International conservation in the commander injects and international confidence in the commander injects. The commander injects in the commander injects and international confidence in the commander injects and international confidence in the commander injects. In commander injects and international confidence in the commander injects and international commander injects and international confidence in the commander injects and international confidence in the commander injects and international commander injects and international confidence injects and	Stowert	PE
l.	-	1.	9-30		AH-B- owner/agent for construction of the Geom Commercial Port project, construction tiesefroms 2009-2013, is retained for the currelative		
5	- 7	- 4	4-10	Table 4.3-3	Impacts analysis, tend agency/proposent is MiG & poet of context is GouGuare.	Rosenthal	PS
,_	7		4:50	Toble 4.9-1	ANT-0 conformation and commissioning of the Medicine, equipment and amenities (1939 of Millor) bits are required to implement the professional concept Testa-6 Medicine) where it makes not influence modern and including commissions of the million building controvation (pagistar requirements. Controvation to make 2009-2013 and project or remained in cumulative impacts analysis, Lead agency/proposent the PAG and the point of controt as lead agency/proposent the PAG and the point of controt as lead agency/proposent the PAG and the point of controt as lead agency/proposent the PAG and the point of controt as lead agency/proposent the PAG and the point of controt as lead agency/proposent the PAG and the point of controt as lead agency/proposent the PAG and the point of control and the PAG a	Rosenzhai	m
			4-11	Table 4.3-1	AH-19- construct new wharf rest of Hotel Wherf to accommodete deep-draft container vessels and cruise ships. Designing and filling of GonGuam automorped lands required. Construction timeframe is 2021-2025 and the project was not included in the curvalative effects analysis.	Resentual	
TO.			pn-11	Traces 4.a-1		í	P8

DEIS

Re. Vel	Clept	Pa t	u, Tel, Pig	Comment	Commentor (last name)	ApendyrOrg
			150	ONE		

						REVIEW COMMENTS SHEET		
	No.	Vel	Chot	Po	Line, Tol, Fig	Compart	Commerter (last name)	ApenquiOrg
J-016-	940 l	TS .	TS	C3-JS	Table ES-4	The IGPO SBS indicates that significant allocs to AC could occur at some existing power generating facilities due to increased use under the preferred alternative. Suggest adding AC impacts and potential mitigation measures to the summary table.	Novi	PB

DEIS

No.	Vol Chot	70	Line, Tel, Fig.	Controva	Commission (fast name)	Agencyl
1	Appendix1	*		The XGPO DBS states that the addition of a new power plant near the Fort (FVs) is assumed to be a significant source of air publishes which will be lable to be mitigated. Nevertheless derailed enables he not been conducted. There are securify grands at the enterance to the fluel tank facility with the encorational worklow recombination for all qualifies and visites.	Neel	PB
2	Appendix A	20 of pdf	Fedoral, State, Local Agencies	Joseph Duenes, Acting General Manager for PAG, attended the Public Scoping Mtg in April 2007	Roserthal	PB
3	Appendix K Appendix K	279 of pdf 321 of pdf	E51 Chapter \$2.3	Commercial Port (Identified in Reid 1) clied in 2001 Westen Soletices Final Report Designed Material Uplanel Fiscement Study as a describile Teaction for a developed material public for design material. Facility located in northwaters portion of post extending into paved centainer area. Observate Commercial Port Facil 1 as a Confront System Construing Study Construint Commercial Port Facil 2 as or of designed materials.	Roserthal Roserthal	FB PI
5	AppendixX	322 of pdf	Figure 12	Commercial Port Field 1 Confined Upland Desistening Site	Rouethal	PB
6	Appends C	42 of document;32 3 of pcf	,	States though and Gov Grams righted an MOU for the use of din appropriate for fill and to astablish procedures for use of material as fill by PAG. States the Repull facilitate the use of din for the Put expandion. DW will be brought to Port in sealed tradia.	Rosenthal	'PB
7	AppendixX	32 of document/33 3 of pdf	Table 5	Construction Cost of Dewaltsring Pacifity at Part - 527,192,273	Rosenshal	PS.
2	Appendix K	42 of document		Fort site idiecified as feasible in 2005 DMMP by Weston, Characterford subting oneithous & noise, air quality & oder Impacts, States social arepacturions noise and tentic are problematic out management plans could be developed and therefore, location is feasible.	Rosewthal	PB
9	Appendix K	64 of document		States a concept statch of the part expansion was provided by TAG during Weston's Dec 2003 alte visit.	Resenthal	PB
6-0 <u>4</u>	Appedix X		i	There is no table of contacts for each subject/section forcing solemone to page through thousands of pages to see what the contents are. The firms and labilitization between the exports are not listed as preparer in the DDS even though the information was used to determine impacts of the DMD project.	Rosenshal	PB

DES

	Na.	Vol.	Chipt	Pg:	Ume, TIA, Fig.	Cermon	Commenter (last same)	AgencylOng
	1	Senoral Observation				Portions of ISPO project evaluated in the DUS may be availting funding.	Rosenthal	75
	2	Decaral Observation	in FAQs on website		hatis (From spamb with pols us/a)que(fagilipadage	The performed alternative evaluated in this JOPO DISS may not be the preferred alternative implemented. The final selection of the alternative to be implemented will be made in the DOC.	Rescentival	76
-016-0	43	General Observation				Construction schedule beginning in 2010 appress ownly optimistic (i.e. to legin shortly after the 900 in late summer 2010).	Rosesthal	29
. 010	4	General Observation				Absorb currier banking - nineg digits all connect when the banks their dendging will create competition for available resources, have presented commissions will need to expect the commission of the control of the con	Scoretal	
	5	General Observation				Now hower plant proposed at Pril edjecent to the first proposed as a long-term alternative. An impact analysis has not been consisted. Property appears to be owned by PAG.	finneshal	in .
	6	Serval Observation				Condingentate will be coming than the Port. The IGPO DISF rides not state who will be conducting security sometings on the appropriate or skilled to the the coming aggregate condinating from some financial propriate propriate or skilled to the coming aggregate condinating from some financial propriate pro	Posenthal	P1
	,	General Observation General				The XBFC DES states that deedged material from deedging at Policies Point could be removed by Gov Guarn Including DAC.	Rosenhal	m
	8	Observation				The XGPO DES staces that the PAG expansion plan may not be feesible.	ficsenthal	PS
-016-0	46	Ibservation General				yout for the power plants will armie at the Port. This creates the privertiel for spills on post property. Document does not address this or delineate responsibility for clean-up.	Rosentral	Pis.
	10	Observation	-			ASPO DES states that construction will be 2010-2020, with peak in 2004. Not EA assumes construction is 2010 to 2018.	Resenthal	PS
	13	Observation				CPFO DETS trates poedway improvements planned to region Port access roads Route 11 and Route 1; all readway work will take place between 2011 to 2015; no specifics gives.	Rosembal	PB
	12	General Observation				Professed abscruding in JSPO DES may not be linel alternative legitemented. Procedurally, the Post EA cars only consider the professed absencious as stated in the JSPO DES when evaluating cumulative impacts networn the projects.	Rosenthal	Pe
	13	Genzeal Observation				The BES stees not written how Port construction for the enablandace and repair project and normal operations will be carried out white MAPO construction is singular.	Scoenthal	ra .
	14	Observation				The DEIS does not address how JSPO roadway construction will affect construction within by for malestaneous and repair project) and regular wisheld access to the Part.	Rosentings	PB
	15	General Observation				The DES does not adequately address the handing of increases in cargo related to construction of IGPD's settion while simultaneously constructing the Port.	Nonethal	PB
	25	Genaral Observation				The Association of a second subarge particular larger for a for larger of the association of the second subarger particular larger for the second subarger for the second suba		

GOVERNMENT OF GUAM



DEPARTMENT OF PUBLIC HEALTH & SOCIAL SERVICES (DIPATTAMENTON SALUT PUPBLEKO YAN SETBISION SUSIAT) # 123 Chalan Kareta Mangilao, Guam 96913-6304



J. Peter Roberto, ACSW DIRECTOR

Felix P. Camacho GOVERNOR

Michael W. Cruz, M.D. LIEUTENANT GOVERNOR

February 16, 2010

JGPO c/o NAVFAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134 Attention: GPMO

REF: Submission of DPHSS Comments on the Draft Economic Impact Statement

Hafa Adai! Submitted herewith are the Department of Public Health and Social Services (DPHSS) comments on the Draft Economic Impact Statement.

Should you have any questions regarding the attached documents, please feel free to contact Ms. Bertha Taijeron, Program Coordinator III at 735-7125 or via email at bertha.taijeron@dphss.guam.gov

Respectfully,

Director, DPHSS

Enclosures

Tel. No.: (671) 735-7102 Fax: (671) 734-5910

							Any - No. (Assessed		ERDEIS Comment matrix (July 20	UB)	Guam and CNMt Military Relo	cation Els	POEIS
		. Ve		in i	Pg	Line, Thi, Pig	Org	Commenter (last name)	Comment III	Responder	Response	Author Done	Vol Manager Checked
J-017	0	01		16	6-29	10.1,5.5	DPHSS	it b	ubsequent enelysis in this chapter were narrowed to "permitting" as claimed to construction. The criticis media to be broadened expend permitting, so that unalysis can elso elsouse access to waithcare and social westercherwices by the increased populations statuted to military bedd up.				
	2	2		16	8-38	16.2.1.1	DPHSS	G G G G C C D D	he section addresses impacts to GWG/Gum agencies and claims concean foldermotion in its method of analysis. The information obtained was used to determine additional staff associated exclusively with the proposed orders. Conduct an analysis which determine other public and private experituations, not just Gov Mannes, as the impact of the proposed articles not longly impacts which determine a proposed orders. One of the proposed articles are not longly impacts and the public of the proposed articles. The proposed articles accounts. Conduct a more comprehensive traview of services and ordinals it "exclusive," in finalsaired in enaith services equilations and reseded professional, prus professional staff is seconated. One of the proposed access.				
	3	2		8 1	8-72	Tbi 16.2-29	DPHSS	ar St pr Pr er Fr	neitys the capacity of invites and milliars hashic own furtilises to choices the weether weether given the proposed author. Table to choice the proposed author. Table 20.2 assumes affice and senders proposed author. Table 20.2 assumes affice and senders proposed can which does not entire. A proposed authority of the proposed authority of the proposed can be constitution. A part assessment for Carbail exposed costs for new constitution. A RE assessment for Carbail without health feeling which will also be output relations to biscontary, without mental health but to a support proposed action impacts. White, cronduct failing wassesment for additional expansion or new contextuction for community health chircles to support proposed circles for multime.				
J-017	-0	2		6 1	3-74	Tbi 18.2-41 & 42	DPHSS	de cr as	notf impact statements in these tables represent an inaccasula- oscription because the data source used did not include other initial services and service populations. Conduct a more complete assessment, using more compressionable data and educate oppopulate authorities how the wither's arrived at the baseline assessments.				
J-017	-O	03	ш	6 1	1-89	Par 4-6:	DPHSS	CC CC	in the contain, Clium does produce similar reports, and there is disted data to include south visions against warrow and children, he proposed action - which considers ovidine populations apporting construction - with him was impact on violence against owner and children, and the need for health and social services, ordicat a more through assessment and arrange to meet with the opacities on this faits. Dated reports, of historia studies, and police conducts a more through assessment and strings to the conduct a more through assessment and strings to conduct a more through assessment and strings the conduction of the conduction of the conduction of the conduction of the conductio				
J-017	-O	04		5 11	1-95	16.2.3.3	DPHSS	ca he tf: ke ed on th	to editional 192 new key shaff, dropping to 52 is an inaccurate iduation, thus impacting the francial cost to address the statistics and scale individual towards a pagent the proposed action. This number were used, it would proably underruptered the address this number were used, it would proably underruptered the address proposed action. The proposed proposed proposed action proposed action, the proposed proposed proposed proposed pagentation of understand proposed proposed pagentation hearts to support this study with makeful data to support proposed action. This positions or profinations leaf, if the proposed action. This positions or profinations leaf, if unattended to the proposed action is unattended to the proposed action.				

ERDEIS Comment Matrix (July 2009)

Comments Page 1 of 3 DPHSS Comme

J-017-001

Guam and CNMI Military Relocation EIS/OE/S

Thank you for your comment. Impacts to the health service provided by DPHSS are included in the impact analysis under GovGuam Public Service Agency Impacts. Impact analysis was limited to GovGuam agencies that provide traditional social services to the public.

The SIAS and the DEIS are documents that have identified the probable impacts of the proposed action and alternatives based on the best available information. Existing data and information was gathered and supplemented with interviews with federal and Guam agencies. To provide the public and various governmental agencies with an opportunity to review and comment on the methodologies and assumptions used, the SIAS was included as Appendix F, Volume 9 of the DEIS. Comments provided on the DEIS will also be included to provide the decision-makers with the public views in support and/or opposition of the proposed action and alternatives.

It is also noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action.

J-017-002

Thank you for your comments. Our data was checked per your comments and the appropriate edits were made in the FEIS.

J-017-003

Thank you for your comment. The SIAS and the DEIS are documents that have identified the probable impacts of the proposed action and alternatives based on the best available information. Existing data and information was gathered and supplemented with interviews with federal

		Lean I	-and	Laska I	at (Nacusatori C	vey - Not Molecus solve	a prought Cox	ERDEIS Comment matrix (July)	10001	Guarit and Ortini minually recio	AMERICAN ILLIC	
		Vel	Ch	Pg	Line, Tbl. Fig	Org	Commenter (fast name)	Contrant .	Responder	Response	Author Done	Val Manager Checked
J-017	-0 ,	2	:*	18-1	18.1-1	DPHSS	the proposed ac even suberba, G smaller that the sites can ectually to the vicinity of	safety analysis is confirmed to series in the vicinity of cition. Unlike the United States, neetpoplism solice. Quarm's geographicus size in considerably much impact near a locale of training and construction by Impact he ordine bland. Avoid familing the analys military operations and training state, and expand the extra island of Quarm.	or			
J-017	-O	2	18	18-5	18.1.4	DPH5\$	very limited. Co appropriate publi of the proposed sections: public	emation on notificials diseases. The information is continuite a meeting with the epidemiologist or sitch health administrator. Document how the impact a action will else involve other divisions and program to walfare, senior offizers, in a station to notifiable to health) and permitting (environmental health)				
	9	2	15	16-6	10.1.8	DPHSS	services requiring observation there Conduct an user services. Also, a	actively also have a direct impact on direct care ing transportation, (seeins environes, direct impy), restaurant inspections, home care vists, etc. research leading to the impact it will have on these readway constudent will import emergency increases in DUI and other injuries affecting the publi reperty care.	1			
J-017	10		10	18-1; - 18-	18.2.2	DPHS8	potential threats emergency resp coordinating offi responsibilities to literating only to Alternatives to s	nations assessed only DOD's capacity to respond to a. Assess GovGu infrastructure to sesind DOD in job poppers efforts. DOD and GovGu, through the DOD lows and Hamband Gournity Authors, have joint to export authorises or emogracities with poses a to the DOD, but the civilian community. All support the proposal author is this section remain is further assessment of the emergency response testers.	M.			
J-017	-0		18	15-1: - 18- 19	18.222-18.225	DPHSS	section are ded, uncertain that the provider and see and planning in approximate, list of them were no importance and the sense what the build up. Furthal control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the of the control of the control of the control of the control of the control of the control of the control of the control of the of the control of the control of the control of the control of the office of the control of the con	air's fount ductors, furness, to include taildes in this separation of the control ductors, furness, to include the subject of from ording submend. However, it remains have notify subjects on color approximation of any other color population. The methodorizing copysitation of the color population. The methodorizing color population of the subject of the subject of the subject of the color population of the subject of the s	1			
	12	2	18	18-2	1 18.2.6.5	DPHSS	existing baseline Graym. From a essumptions on assumption to a Do the study ov baseline. Have was achieved,	can in this section are indecurate and false. No ord removable hashing and social services evalues on a gentiation study of this provided, all sorts of a gentiation study of this provided, all sorts of an its enable. Then the existing period destinant, this support the proposed action in this section is a false were or update the information, and entire it as an exhaustional outmach to explain how the baseling this information is to important that it well drive ability to meet the service equiliments for health are set.	100			

Page 2 of 3

ERDEIS Comment Matrix (July 2009)

and Guam agencies. To provide the public and various governmental agencies with an opportunity to review and comment on the methodologies and assumptions used, the SIAS was included as Appendix F, Volume 9 of the DEIS. Comments provided on the DEIS will also be included to provide the decision-makers with the public views in support and/or opposition of the proposed action and alternatives.

J-017-004

Guam and CNMI Military Relocation EIS/OEIS

DPHSS Convinery

Thank you for your comments. Our data was checked per your comments and the appropriate edits were made in the FEIS.

J-017-005

Thank you for your comment. Volume 5, Chapter 18 discusses the potential public health and safety impacts of as a result of population growth associated with the Army AMDTF. Based on the small buildup associated with the Army AMDTF, less than significant impacts are anticipated to public health and safety. Volume 5, Chapter 16 discusses the potential impact of an increased patient to health care provider ratio as a result of population growth associated with the Army AMDTF. Potential cumulative effects of the Army AMDTF action with other build up actions is addressed in Volume 7.

J-017-006

Thank you for your comment.

Notifiable Diseases

Incidents of notifiable diseases (including AIDS) for Guam were collected from the Government of Guam, Department of Public Health and Human Services, Office of Epidemiology and Research. Statistical information collected from this agency were used to determine the per capita rate for the diseases and calculate the potential increase in disease incidents

Death Deliberative for Discussion Only - Not Rolessable Brough FOIA

0.00	28070	COUNT	IN DIEG	assist only	- IACK BURNINGS	le through FOIA	ERDEIS Comment matrix (July 20	The second secon	or a common recognition of the green strength of the contract that	XXII EE E
Vol	Ch	Pg	. Un	e, Tbl. Fig	Org	Communiter (last name)	Component	Responder	Response	Author, Done
13 2	Ш	18-5	10 11	8 2.8	DPHSS		Much of the information derived in this Chapter utilized data from Appender F. Allinghi the data, accounts, and studies could be thallenged, this Chapter is generally fewer. Recommendation is conduct another Stiffs study, provide an educational cultiment to the study and to also include one profit sorvice providers and private healthcare providers. The SEIS man timove a process to vivile people in the villages to come out and visice their concerns, secondarious and all entremans.			
14 9	A DE	1-5	Luck	Of Data	DPHSS		The SIAS is a felled report in all sections with respect to health and social services. Any cost estimations, programmic conclusions and assumptions should not be endorsed by the DPHSS			
15 6	A CCC Charles	P 1-4	5 Lack	: Of Cota	DPHSS		SSIS acknowledges that due to hudget cuts, the writers choose a "tand about" study, generally quantitative in nature, porturely instead by patientation from theretween, inclined by patientation from theretween, inclined by patient and		,	
18 9	on a	p di 1-	5 Lecs	: Of Data	DPHSS		Based on the limited information, skewed population surveyed, no continuity input, \$84,5 was a fished attempt to complete a task to meet a decidition and budget constraints, leaving the social and seconds fabric concerning the health, social welfare and quality of life for listed residents in harms way. Conduct			
17 9	ent ent	9 di 1-	6 Lack	c Of Data	DPHSS		Require the Dob to conduct the SEIS as an independent process, separate from the EIS - not as an appendix to support the EIS. The SIS and SEIS needs to be mostly exclusive, with the objective of separately addressing the proposed action, rather than the SEIS neaponing the EIS.			
18 9	Sp. nc. x l	op di 1-	6 Laci	k Of Date	DPHSS		No educational outreach to the community on the SBIS occurred, island estillation through medic campaign were not inflement dhat DoD was conducting a SBIS, village mayors, members of the community villages were not provided the opportually by viole their oncomes about the impact on health and social services. Many inscients violend contained that the Elis was the SBIS. The process inverse tool place, with exception to safect interviews, data gathering etc.			
19 9	Ap an ac	op 1-	5 Lad	k Of Duta	DPHSS		Rather then support and partner with the CATT-14SS Subcommittee to organize and strategible commandly molitication for perficialization or perficialization to predictabilization for perficialization for perficialization for perficialization for perficialization for perficialization for performance of the process tool another organization of important attained forest in the commanility. Thus, date is best thinken, developed and not a representation from the facility molitarial performance of the perform			
20 9	Ag an x	op idi 1	6 Lac	k Of Data	DPHSS		Do the SBIS process over again and this time, work with island and community leaders to involve the community through an education campaigh, toursed groups, planning, do. to provide data that is more look-sive and more approximate to the proposed action, to include clear standardies to accident impact to Quant's health and social services.			

ERDEIS Comment Matrix (July 2009)

Guam and CNM Militery Relocation EIS/OEIS

due to the buildup on Guam (military, construction worker, and natural population increase). Volume 2, Section 18 specifies that potential public health and safety concerns (for notifiable diseases) were addressed based on anticipated changes in the population of Guam, both from natural increases and from population growth created by implementing the proposed action and alternatives. The Guam average per capita incidents for notifiable diseases were used to calculate the potential increase in these incidents as a result of implementing the proposed action or alternatives. The construction workforce visiting Guam from other countries to support construction requirements (peak construction force of 18,374 in 2014) would also have the potential to contribute notifiable disease incidents during the construction period. Volume 2, Section 16 provides a brief discussion of the overarching factors that affect health and human services on Guam. It also outlines the key public, nonprofit, private, and military agencies that provide primary health and human services to Guam's population. This section also discusses possible measures that the DoD could take to support increased staffing of required positions. These measures include seeking federal funding for necessary positions; increasing the number of private staffing and service contractors currently working for service agencies; and supporting a one-time hiring bonus of 20% of base pay for GovGuam agency positions, to increase interest in GovGuam agency employment. These measures could aid in increasing the number of health care professionals on Guam. The EIS does not identify specific funding sources.

Traffic

DoD recognizes the importance of reducing adverse effects on the people of Guam, its natural resources, and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short-term impacts of

Division of Senior Citizens-DPHSS:

J-017-010

The Division of Senior Citizens (DSC) is concerned with the impact the military build-up may have on aging services. There does not appear to be any representation of an assessment in the Draft Environmental Impact Study (DEIS) in relation to the aging community, thus, requests the DOD obtain input from the Division of Senior Citizens, members of Guam's Aging Network and through focused group discussions with the seniors of Guam.

In the 2000 census, it is anticipated that in 2010 approximately 11% or 20,342 of the population of 180,692 on Guam would be 60 years of age or older. By 2014, the number of seniors on Guam would be 13% of the population and by 2019 we would reach 15% of the population. As these increases are steady, it does not account for those migrating to Guam due to the military build-up, potentially staying behind to make Guam their new home, and inviting or petitioning for their elder family members to relocate.

Thus, the DSC would like to request DOD identify:

- Of the military personnel, how many of those relocating to Guam have family
 members who are sixty (60) years of age and older? This data will be needed for
 military and their dependents and the non-military labor force that will work on base
 or directly support base operations.
 - a. Of this number, how many are coming with the intent to assist or provide with child care responsibilities of military families and non-military families?
 - b. Of this number, how many are under Medicare? Currently, anyone relocating to Guam from another service area and were enrolled in a Medicare plan that was only applicable to the area they lived in may have to dis-enroll in their plan and re-enroll in a plan available to their new service area. Would DOD advise them there may be changes attached to their Medicare Options and coverage when they relocate to Guam? If not, the Division of Senior Citizens offers information and assistance in applying or referring Medicare beneficiaries to the appropriate agencies or plan sponsors. An increase in the number of individuals requesting for assistance would require the Division of Senior Citizens to expand it hours of operations and possibly human resources to respond to the increase demand for services.

J-017-011

- 2. We would request the DOD to coordinate with all employers of the non-military labor force coming to Guam as a result of the military build-up to continuously assess, manage and quantify, how many in the labor force, will be with family members, age sixty (60) years of age and older?
- 3. We would request the DOD to implement a mechanism to track how many "stay behind" once activities plateau related to the military build-up, as this would impact the future needs for aging services on Guam and consequently the Division's capacity to serve those new seniors anticipated to access our programs. Currently,

construction are managed effectively and that the long-term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam. As discussed in Volume 2, Section 18.2.2.7, there would potentially be more vehicles on the roadways resulting in more potential for accidents as a result of the increase in military personnel and their dependents. The Navy uses focus group sessions with personnel to strategize potential measures to reduce the number of liberty incidents, including traffic incidents. Traffic accident data for the years 2001 through 2005 indicated that, despite the population increase over the 5-year period, the number of traffic accidents has decreased. In addition, the Guam Territorial Transportation Improvement Plan contains 14 island-wide traffic hazard elimination projects that include school zone signs, village road safety and warning signs, seashore protection, pavement markers, anti-skid surfacing, and guardrails. The Navy understands the importance of emergency response for traffic accidents and care services requiring transportation and will work with GovGuam to ensure DoD participation in planning transportation improvements as appropriate for roadways on Guam.

J-017-007

Thank you for your comment. The Final EIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

DEIS Input from DSC February 4, 2010 Page 2 of 3

approximately 25% of individuals 60 years of age and older living on Guam access DSC aging programs.

J-017-012

4. With the increase in population, there would be an increase in demand for services, thereby putting a strain on the seniors as they compete with the rest of the population. For example, traffic delays would be exacerbated which may be a contributing if not key factor in causing delays in the delivery of meal services to home-bound clients, transporting seniors timely to the senior citizens centers and back home, or to their medical appointments. We recommend DOD assist in the design and development of a carpool lane or service lane to reduce or mitigate the effects of traffic congestion for this population. In addition, personnel of DOD could be required to have a different work schedule so as to minimize the number of vehicles on the road during the traditional 8:00am to 5:00pm work day. DOD personnel could report to duty at 7:00am or 9:00am and expire for the day at 4:00pm or 6:00pm. The hour difference in the morning or afternoon could help provide some relief to the traffic congestion that is anticipated as a result of more individuals operating vehicles are on the road at the same time.

J-017-013

5. Seniors will be competing for services in general; however, a key area critical to "all island residents", seniors and non-seniors is our limited resource of health care facilities, providers and specialists. As it stands now, many travel off-island for health care services, wait days for a room at the Guam Memorial Hospital, and make appointments weeks in advance to access primary care services, thus, an increase to the demand side and no increase to the supply side will do nothing more than lower our standard and quality of care provided to Guam residents. In order to ensure that Guam's health care infrastructure from both the structure and provider sides is sufficient to meet the increase in demand, Guam needs to build its infrastructure to an acceptable national level of practice standards prior to the military build-up so that maintenance levels provided by DOD would be reflective of what currently exists on Guam.

J-017-014

- 6. An increase to the current demand on our infrastructure (water and power) without improvements made to the current system will result in island residents having to experience load shedding, an experience we on Guam have gone through as a result of the system being overwhelmed and needing repairs that did not happen soon enough. Who will be expected to pay for the costs associated with the improvements needed to generate water and power for all island residents, including military and non-military? Although this issue may likely be mentioned by another subcommittee or agency, it is a concern nevertheless, important to all including our seniors.
- 7. In Fiscal Year 2009, the DSC had approximately 457 caregivers enrolled in its National Family Caregiver Support Program. These are caregivers serving elderly individuals, grandparents and other elderly caregivers serving children, and caregivers of adult children with disabilities ages 18-59. With the anticipated "employment boom" resulting from the military build up, the DSC is concerned that

J-017-008

Thank you for your comments. Our data was checked per your comments and edits made as appropriate in the FEIS.

The SIAS and the DEIS are documents that have identified the probable impacts of the proposed action and alternatives based on the best available information. Existing data and information was gathered and supplemented with interviews with federal and Guam agencies. To provide the public and various governmental agencies with an opportunity to review and comment on the methodologies and assumptions used, the SIAS was included as Appendix F, Volume 9 of the DEIS. Comments provided on the DEIS will also be included to provide the decision-makers with the public views in support and/or opposition of the proposed action and alternatives.

J-017-009

Thank you for your comment. The SIAS and the DEIS are documents that have identified the probable impacts of the proposed action and alternatives based on the best available information. Existing data and information was gathered and supplemented with interviews with federal and Guam agencies. To provide the public and various governmental agencies with an opportunity to review and comment on the methodologies and assumptions used, the SIAS was included as Appendix F, Volume 9 of the DEIS. Comments provided on the DEIS will also be included to provide the decision-makers with the public views in support and/or opposition of the proposed action and alternatives.

It is also noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action.

DEIS Input from DSC February 4, 2010 Page 3 of 3

J-017-015

more caregivers may opt to leave their caregiving role and responsibilities for financial opportunities; thereby leaving those they care for, particularly those requiring supervised care, unattended, at home. DOD is requested to reflect on this impact as it has adverse consequences to the seniors, children, and adults with disabilities that require home care.

J-017-016

8. For Guam, I would propose an aging policy be put forth addressing the socio-economic factors facing Guam's aging community. It would be the responsibility of this policy to ensure that seniors are not displaced due to the military build-up and the quality of their life is maintained. We would need a social services support system to assess seniors who for the most, are living on "fixed incomes" to receive some degree of subsidy to ensure they are able to maintain basic life necessities, such as, power, water, housing, transportation, etc.... The policy should be designed to ensure all Guam seniors who meet residency and income requirements are safeguarded from falling victim to being impoverished as a result of the military build-up. Instead, seniors are registered into a system that ensures they maintain a dignified quality of life.

Guam and CNMI Military Relocation DEIS/OEIS

J-017-010

Thank you for your comment. For demographic information on the expected in-migrating populations, please see Section 4.2.2 of the Socioeconomic Impact Assessment Study (Appendix F of the DEIS). The demographic analysis provides median ages for in-migrating populations. The expected median age for in-migrating workers is 32 years old and the expected median age of military personnel and their dependents, relocating to Guam, is 24 years old. The analysis does not provide a statistical breakdown by age because it is unknown, exactly, who will make up the in-migrating populations; there is not enough information to provide analysis with that sort of detail.

J-017-011

Thank you for your comment. Public comments on the DEIS are an important part of the decision-making process. This information becomes part of the FEIS and is evaluated when DoD prepares the FEIS and issues a Record of Decision at the end of the NEPA process.

Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-017-012

Thank you for your comment. Traffic management techniques such as alternative work schedule are recommended to help manage traffic impacts associated with the additional military personnel and depedents. Development of car pool lanes, or dedicated bus lanes, would be require significant right-of-way and result in more environmental impacts along roadways if new lanes were pursued. Development of existing travel lanes into carpool lanes along major arterials would signficantly increase congestion levels for due to the loss general traffic carrying lanes.

1.6	_	,Da	409	No. rativa Ro Diseuscion	Conty - Not Places	untile Prough FD9	ERDDIS Comment Matrix (July 2)	909)	Guam and C	WHI Military Relco	ation EIB	#DEI8
	ŝ	٧	C	h Fg Lino, Tbl. Fig	Cng	Commontor (last name)	Covrnet	Responder	Response		Author Dono	Mara Chock
-01	7.	0	10	7 4	DPHSS.CPW	BUBLIOS	No address of housing facilities for construction wavkens; how exit these workens be 5Hy accounted for during their stay on Guarr?					
	2	1	0	V 28	DPHS8/DPW	susuico	No address of providing noice reduction mnowheres to existing realizants from within the air traffic replays.		-		1	
	3	1	0	V 28	DPHSS/OPW	pusuloo	No advisors of number of child case facilities to be build and operated within base. Need to ensure provision to be relocated to Guara accomplished with sufficient services.					-
	4	,	0	2)	DPHSS/XW	RURLIED	Standard with restorate specified a societimistic influx, of population. DRIS stated that "construction of a new hospital ware waterway pilet to the profitment Mining Corps reforming and are not included in the ESCODIS." This needs to be addressed decourse local hospital not able to nord influx in the event entiting. Navy Historials wonthing.					
	5	1	0	v 1	DPHSS/DPW	susuico	No address if construction workers will be allowed to be enaded in military hospital or clinics. If not allowed, local brogistic and					
		1	0	1	DPH88/DPW	susulto	community shirter may not be ably to accommodate inition. No address of social impact on community. How its loguage pregnancy to be prevented. Are the continuation workers to be naturated within construction composed only? If not, is Gasen's Regal and police department to allege by shirter of acceptances.					_
-01	7.	0	1	8 4	DPHSS/DPW	sueukoo	Reparting the dimens-controlled, earth-covered magazines exposed on Anderson AFB, note that all die releval's water lens are located on the Notition past of the island, what is plan to preserve water lens?					
-01	Ź.	ò	10	o f	DPHSS/DPW	969,600	No address about the analability or this tipic of land for roadway expansion is, increasing road-my capacity.					Г
-01	_	1 -	т.	1 1	OPHSSOPIN	susuico	With constructive phase, no mention on impact of residents existing slives by construction areas, would the residents be accumulated for the noise, dust, lost of privacy due to clearing, egs					
-01	¥	á	9	1 1	DPHSS/DPW	Markito	is construction of new facilities to benefit non-military community what. Should be addressed		 			
-01					DPHSS/DPVI	sunuico	There appears to be in described take over of land is, land required for the hadiguarchindhousing/taking, invasions storage, shakajales, roadways, base of the Leonys no land far the labora people. Gowin represents to be becoming a base fathaf and no langer a preserved intend for the chamour people.					
-01	-7	à	Ļ	4	DPHSS(DPW	Bussica	No memion of the Bureau of Management Support varies the Division of Public Welfare. No memion of the programs and					
-01	13	2			DPHSS/OPW	BURINGO	ashfots provided by the diclaims. Who will regulate the contractors to oneure that H-39 wedgers are provided a safe and sonition housing?		 			
- [14	2	16	5 50	DPHSS/CPW	susulos	Even if contractors build their own clinit, where are the modical staff to come from?		 -	The		
	15	2	16	58	DPHSSGPW	SCAPIETO .	Who would be responsible to ensure that there will be a result's songeries of all sockers? Where is this to be done?					
- 1	10	2	16	n	DPHSS/DPW	546000	First Year additional staffing requirements may not be available with the required skills sets.	-				
-	17	-	- 3	1	DPHSS/DPW	9191/60	No mention of the Surecu of Management Sapport order the Division of Pulvin Mydlere.			-		
- 1	18	-	4		DPHSSIDPW	susuice	Analysis restricted in ansumptions and estimates. No true value to estimations provided. "Control provides would also include requirements to provide		 			
	19	-	4	4 11	DPHESIDPW	susvico	roaming promises would also incuso requirements to provide worldone medical, drive, terreportation and safety/security." No mention of assurances that Chains constrainly to be responsible to provide such reported services.					
İ	20	4000	4		DPHS\$/DPW	Stantico	Assumption of trittery spending on base to borself Gwan economy, towever, specking in base does not effect community market.					

Guam and CNMI Military Relocation DEIS/OEIS

J-017-013

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

J-017-014

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other federal programs and funding sources that could benefit the people of Guam.

J-017-015

Thank you for your comment.

J-017-016

Thank you for your comment. The items identified in this comment are not part of the proposed action and are therefore not addressed in the EIS.

J-017-017

Thank you for your comment. Workforce housing would be provided by

. San Dollard V	va for Discussion Only – Nrc Rose	- top ros	ERDEIS Consment Matrix (July 2008)	Guarn and CNM Military Relocation EIS/OI
Vol Ch Pg	Line Tot. Orp	Commenter (last name)	Cometest Responds	Raspones Author y Done o
7-024	DPHSS/DHV	y sweets	"No carrier, ritortage" statement for GDPHSS with staffing in an incorrect statement.	1
22 **** 4	OPHISSIOPY	V suzuleo	In it expected that the Guern construitly will be responsible for the increase of Public Salety Services?	
7-025 I	DPHS5/DPV	y sus/co	Increase in overall crims in a serious impact expected. To sky that there would be illus impact on overall crims rate is an understandered.	
24 4	DPHSS/DPV	y simpleo	Community may not to able to handle the numbers and the Guarn community may not to able to handle the numbers and crime.	
26	DPHSS/DPV	9 suscito	The Chall gaining to provide shartler and services for the student of scharestoning violences. If yes, the shartler and services to be serecuted to the consultation workers and their landles?	
7 026	DPHS&DPV	w susuico	In their going to provide shafter, food and medical assistance to the consumation workers and their familias?	
7-027 I	DEPESSION	essection (What is DuD's plan to prevent reenage progency? Would services and madical assistance would be provided to the prognished toursport and child?	
28 29	_			
7-028 *		notes	The OFES fedurates that invocate is to Clumbe cover Recognized a comproposed with the United Straighton. With the sounder of the reliably increased. The information and produced the comproposed cover the reliably increased and produced to the comproposed cover the reliably increased and the comproposed cover of the comproposed cover the comproposed cover of cover the cover of the cover of the cover of the cover whether of proposed cover cover cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover of the cover of the cover the cover of the cover the cover of the cover of the cover the cover	
31				
32 33		_		
34	- The second			
36	1	_		
36				
307				
36	THE RESERVE THE PERSON NAMED IN COLUMN 1			ACCUSED NO.
39	-	_		
40		1		
42		+		
6 7		-		
201				
		1		
44				
45 1				
45 · · · · · · · · · · · · · · · · · · ·				
45 1 45 1 47 45 1				
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				
45 1 45 1 47 45 1				
65 67 68 69 69 69 69 69 69 69 69 69 69 69 69 69			100 AME 100 AM	
45 46 47 49 49 49 49 49 49 49 49 49 49 49 49 49				
65 67 67 69 69 69 69 69 69 69 69 69 69 69 69 69				
45 46 47 49 49 49 49 49 49 49 49 49 49 49 49 49				
65 66 66 60 60 60 60 60 60 60 60 60 60 60				

the contractors as described in Volume 2, Chapter 16, "Socioeconomics and General Services." DoD would not provide workforce housing, but design/construction contracts would require the contractor to accommodate the workforce in accordance with specified health and safety standards. Various proposals are being developed by potential contractors in anticipation of winning a contract. The timing and location are unknown for construction and/or renovation of housing to accommodate the construction workforce, but it is possible that some of the workforce housing projects would begin independently of DoD's Record of Decision.

There are no plans to allow contractors to locate workforce housing on DoD-controlled land. Therefore, it is anticipated that should workforce housing needs require the construction of new housing, such workforce housing would be located on either private or Government of Guam lands. In either instance Guam officials would control the underlying land use and permit decisions associated with the siting of such housing. DoD would work with Government of Guam land use and natural resource officials to identify any contractor plans or efforts to construct workforce housing and DOD shall ensure that contractors are informed of their responsibilities to comply with Government of Guam land use restrictions. In particular, the Guam Land Use Commission recently issued GLUC 2009-1 which specifically addresses the issue of zoning for workforce housing.

In the Socioeconomic Impact Assessment Study (SIAS), found in Appendix F of Volume 9 in the DEIS, the number of off-island H2B visa foreign laborers was estimated. Two scenarios were reviewed: the maximal number (unconstrained) and a constrained scenario. In Section 4.4 of the SIAS, there is detailed discussion and analysis of impacts to public services; some of the public services would be impacted by temporary workers and some would not. The Navy would require contractors who work on DoD projects to provide healthcare for their

DEIS REVIEW COMMENTS SHEET

7 - O 20 actions and BHCFA	 Assurance that the roads outside the military facilities can handle the increase in population.
7-030	Systalnubility and maintanence should be significently considered during all planning to meet the needs without compromising the future.
7-031	 Enforcement of proper protocols on the took and nuclear ensemble that can effect the health of the residents to include monitoring, accountability and parality on improper disposals.
1.7	 No plan on how to recruit professionals such as doctors, nurses, beathers, and other skilled workers.
7-032	 Increase in ship emberizment would create conjection and destroy the natural resources. The angithtious vehicles would governte assess that has repet on the surrecarding readients. No plan on how to resolve this tows. Should create a read alway from read-lental areas.
17-034	 Addressing the health/medical services needs by entiting and sentaining medical provisions, obtaining and maintaining quality medical equipments, and expanding the facilities for the 75% chillien workers and the fluore.
	Provide training to Guarn residents to acquire the workforce than hiring off-stand workers (75%).
17-035	 Mandate in assuring the enforcement, mangiouer, and facility are throughly address simous meously in the sefety component to include tighter customs and quarantine coverol and BUII checkpoints.
2 Oraft Socioeconomic Impact BIACEA	 Road selety, what are the plans to prevent additional traffic accidents in addressing the lighting, reflectors, traffic signs, petholes, uneven surfaces, and driver's orientation/education
17-036	2. Construction of results would have an advantal impact an Guan recibions. Should charge the hours of greation or some establishment to recibion the traffice congestion. Heavy applicants should are the allowed on the results hours. Create more but there are decoupled it are. Government efficies and composites congested should create a designate or include participate of wars from the traffice area and provide its own that it is market to adjust the traffice congress of the horizontal of positions.
17-037	 With the supply and demand and currently increasing rate of gazoline, power, water and waste collection, official on whether would be componented the comparable salary to the States but the locals are not commensuabled to these increasing expenses.
	 Increase in population corresponds to an increase in workload requiring pay raises or recruitments.
17-038	Building permits should be based on the value of the structure to assist in resources needed.
17-039	 Chriver's Ucesse orientation on road protocols for off-island drivers to deter accidents and provisional license for additional revenue.
	Increase in already and tobacco tax in establishing responsibility and occinol and also provide funding for rehabilitation or weekly sobriety checkgoints.
	 Plans on identifying, preventing and controling the increase of drugs, DUIs, prostitutions and other relating crimes. Should increase the inserpower of Law Enforcement Agency.
17-040	Lend lease with the provisions of percentage increase on a yearly or every two years to cover increase in the standard of inving expendes.
	10. Land lease with the provisions of percentage increase on a yearly or every two years to cover increase in

employees, including off-island/H2B workers. A small percentage may seek health and/or social services provided by Guam. However, workers would also contribute to the Government of Guam revenues in form of personal income and gross receipts taxes; corporations would pay corporate income taxes (See section 4.3.3, page 4-24 of the SIAS). The additional money would flow into Guam's revenues and, depending on executive and legislative branches decisions, could be used to provide for additional public health and social services.

Relating to the population figure of about 80,000 people; it should be noted the figure represents a maximal figure when most of the construction workers are still on Guam and the military populations arrive (2014); once construction is completed, the operational population would be about 33,400 (2016) (see the SIAS, Table ES-1, on page iii). Mitigation measures (as appropriate) to address the significant impacts will be discussed in the Final EIS.

Please see Volume 2, Chapter 9 for information on noise impacts.

On -base childcare and hospital facilities are not addressed in the EIS.

J-017-018

Thank you for your comment. As described in the Final EIS, runoff from the earth-covered magazines would be conveyed via LID infrastructure and BMPs prior to recharging the NGLA.

J-017-019

Thank you for your comment. The extension that you mention was a concept that would connect Navy facilities near Apra Harbor with Andersen Air Force Base. The proposal had been included in previous planning documents and was conceptually evaluated in the development of the 2030 Guam Transportation Plan. This route would primarily serve as a transportation corridor for only the military, would impact the

		erse	10/01	or use	CORROL DWy -	NH Helessychi	Brough FOR	ERDESS Comment Matrix (July 2005))	Genm and CNMI Military Reloca	tion Eld	ė
B	Vei	Ch			Line Tol.	Cvg	Convenienter (Instinores)	Sourest	Kasporder	CONTRACTOR OF THE PROPERTY OF	Author	
.7	-0	11	4.	4-11		DPHSS	Tenorio	the Labor capacity for Claum may not be enough to mad deniand for each, so therefore outsides will be encaled for. White work will be available to set up the million, build op, each may eventually demands and people will be cut of jobs again. We need to ensure proteinability and priorities that Locals are given priority and configure to build applyity.				•
2			4	04		DPHGS	Tenato	For troating, the nilitary is Buly is season workendation trapping for address present and dependents. In suggifier to relating the season and dependents in suggest to relating the Enemands will be placed on the outside becoming in suppling so of indeed to cover yet which reposting the season of				
3			43			DPHSS	Tenorio	Revenues will likely increase, but decrease as the military sowes out or the bornes are settled. We need to be able to look at probability.				
4		1	6-3 t 13	14		DPHSS	Temprio	The CIP will likely be toward in it we maintain the population increase.				
6		- 1	14	_		DPHS8	Tenorio	This will be favorable if the military contributes to upprise and unsures that they contribute to utility improvements and maintenance and become consumers.			_	-
0		Ţ,	100	94		DPHSS	Tenorio	No Command				
,			1	4		DPHSS	Teroilo	For Public Service impact. That will make additional work and featuress. Their should be a Lessons Learned feet the Compact of free Association which is setting Cubar themselvously as we see sliving to absorb migrates. If we do not impose limitations and make the compact of the compact in the compact of Cubar and allow a selection, Quarter of absorb come toward.				
6	_	#	_	#								
9		+	-	-								t
11		_	_	\rightarrow								1
12	_	_		=					-			4
13	-	+	_	-								t
14 15 16		\pm										4
16 17	-	-1		\exists							_	+
16	-+	+		-+								1
16 19	\rightarrow	1		- 1			-					4
20 21	-	+		-								ł
22 1	+	+		\rightarrow								1
2		1	=	コ							_	4
24	-+	+	_	\rightarrow								ł
읆	-+	+	-	-+	-		-					1
23 26 28 27	#	1										ł
28 29 30 31	-+-	+	_	-								t
50	_	+		\rightarrow								1
21		#									-	4
12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-	+	_	-								t
34		+		_	-							1
35		1										1
홄	-	Ŧ	_	_[_	t

environment and would be very costly to construct. In order to benefit Guam's roadway network and make better use of limited funds, the Department of Defense (DoD) and the U.S. Department of Transportation (USDOT) Federal Highway Administration (FHWA) plan to improve existing routes instead.

The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the USDOT FHWA. The DAR Program provides the means for the DoD to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The DoD, Guam Department of Public Works and FHWA are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to seek solutions to island-wide traffic issues.

J-017-020

Thank you for your comment. The EIS addresses the fact that there would be short impacts during the construction phase of the proposed military relocation program.

J-017-021

Thank you for your comment. Facilities construction is solely for training activities on Tinian.

J-017-022

Thank you for your comment. DoD acknowledges that the issue of land

	ei i		ġ.	-	100	15 150	ERDEIS Comment Matrix (July 2	,	Guart and CNM Military Reloc	attion Est	3
ė	W	Ch	Pe	Line, Tel.	Cvg	(kest name)	Comment.	Responder	Raspress	Author	
17-	Q	42	22	21.1.2	DPH68		The India of the entgrant bloom, who sid eventual bring is their families will made Bady be individual working at minimum ungo or not working at all. Those individuals warry apply for services state. Pales Assistance. Then work potentially lead to an increase in the fact and an increase in caseload to an aircaidy high control and an increase in caseload to an aircaidy high caseload.	1			
2	1	2	27	2231	DPHSS	Perez	Capture rate - most of the combings from these laborars will not stoy on the intend. Thus would it nestly stimulate the scoreoxy?				
3	1	2	2-12	2,3,1	OPHISS	Perez	"Stay Behind" worksins - who quit or no longer have work because the project has been compliated, may and up an our rolls.			-	
4	1	2	2-17	2.4.2	OPHSS	Perex	Social Diserter wit import at our social services, flage - need for medical insurance, cash estallation, food assistance, browseed incidences of seen programmy and not of-wordook gragmancy will also traject our guillio positiones services.				
5			П				The increase is participation into our social programs will require and increase of staff to address the roods of these incluiduals.			_	Ī
9			_		-		70/10	*****		-	
7											-
.0.	-	1-	-								1
10	\vdash	-	-				The state of the s	-]
11										-	Д
12								_			4
13			-							-	t
15	-	-									7
10						-		-			1
17											4
18	_	Н	-								ł
19	-		-			-					1
21	-			_		-					1
22											4
23			-								4
26			-			TT. BELL		-			1
26		-	-+								1
27		-				-		_			1
28.					-	-		-		-	4
29 30								-		_	+
	-		-					-			t
31	-	\vdash	-								1
33			-					_			1
34										-	4
35			_					-		-	+
36	_	-1	-							_	Ť
36		\vdash									1
29			\exists		-						Į
40											4
41		_	\neg		-						+
42			-1								t
43		-	-								1
45.	-	\dashv	-+								Ι
46								***			1
47	-										1

acquisition is a complex and sensitive issue, particularly related to prior acquisition of land in Guam by the federal government. Prior land acquisition policies and procedures are not reflective of current land acquisition laws and DoD policy.

DoD was required to determine whether military relocation requirements could be met by excess, underutilized or otherwise available property held by DoD on Guam. Early development plans attempted to keep all activities on existing DoD lands. However, as discussed in the FEIS (Volume 2, Chapter 2), after applying operational and environmental screening criteria, no contiguous DoD area on Guam was identified that could support all the land use and operational requirements of the action.

J-017-023

Thank you for your comments and opinions.

It is noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action. The data used in the analysis were derived from surveys and interviews performed in conjunction with the DEIS, and serve as a point-in-time indication of staffing levels. It is acknowledged that it is not possible for this analysis to capture all requirements of GovGuam agencies, including impact on support staff. It is expected that the Fiscal Impact Assessment, conducted by GovGuam consultants and funded by the Department of Defense Office of Economic Adjustment, will be able to more fully capture recent public service impacts, and provide a more detailed indication of fiscal impacts to GovGuam agencies.

The Guam Department of Labor, Alien Labor and Processing Certification Division is responsible for monitoring construction workforce housing.

٠,		Draft (Delberative	for Discussion	n Only - Not Rus	sasable through F	OW	ERDEIS Comment Natrix (July 2009)	Gu	am and CNM Military Re	location EIS/OE	EIS
6	*	Vol	Ch	Pg	Line, Tol. Fig	Org	Commentur (test name)	Comment	Responder	Raspo	orse	Denn Ma	Vol lanager hecked
J-017-	04	2	18	p.13-14		ОЮН		Usual this heading. "Black ornigatelly Safely". The report of a Declarospipate envision on public heads and safely no switched in advantage of the safely and safely not switched in advantage of annihilative result occur." The di- stant envision may induce looking radiation. Fino CBH of that the envision may induce looking radiation. Fino CBH of the softly to require soon below the form the formation of the softly to require a tool solding to the inventibly of the headth. Programs. Absence of this program, DHPSS will not copiedly to confirm the report or contacts that there were the program noted is faulting for its programs.	whi not result in the and safety rision assumes one not trave a Radiological have the tip no impact.				10000
J-017-	04	4	٠			DEH		Notes policides will evoluting could alternate monage millionry operation. Anthough the income formation per millionry operation. Anthough the income formation insignations, or can be made insignificant formula millionry and include the primary policide. Information (Gordunn withy that directly regulated modes. Deficial consequently found to some address that metrils could. Defidition con- cluded to over an discuss that metrils could be millionets, which could include noise poliutions, towers, by millionets, which could include noise poliutions to the could be not a policide. Such legislation must include for and fraiding.	ne noise will be n, the possibility , there is no o exitherity pulse public policy it does registration				
	3	2	18	18-4	16.1.3.2	DEH		As indicated in the section, GBPAUSEPA does regulate de quality. DEH indirectly regulaces water quality by overseein operations of water and low manufacturing and betting facilit stunding to DEN for personnel is necessary for routine inse- facilities.	ng She Den. Additional				
	4	2	18		Figuret 58-1, 65-2	овн		Figure S.M. for M.S.M. reflect he labor force and housing respectively. These forces show an increase and decrease larger and decline located manify-state population. In term (only, included) will labor your are in all count of pools and team facility increases. This may incread DEH from the import of and disapper qualify connectifies which may not be in count food and federal mandales powering foods, drapp, copies (evices, and other commedities. More sharing for DEH in the august of federal regulatory agendins (i.e., USFDA, US unitable).	ne due to the ex of cost of services fester l'ess costiler stance with decension medical cossoary and				
	5	2	15	-46	Table ES-4	DEH		The proportion of those serviced by OCFI compared to the a is unknown, however, DEM arriginates there will be increase provided by the division. Any additional services to be pro- will require increase in funding for the division.	w in the service				
	8	2	18	vii	Yabro ES-6	DEH		Fithis UR-6 provides the number of additional stell needed tenrice the projected inforces in senting (See Table 25-4), 2010 and 2014. We successful social scenario cled are 245 a sespectively. while the constrained scenario rearriers indicated 51. How the sumbters was delived and with specific are all uniscover. However, based on the selections period actions of 52 seconds are needed in the pre-construction.	For the years and 56, sted and 166 ge is for DEH a med by DEH.				
	z	2	13	ix	Tubio ES-6	DEH		Table IS-6 sisted that CPH would need additional staff critical staff control proofs in portfly repeats for controllation and divelopment upon validation and several property and controllation accounts for peak year and 2020 is 6 and 2, od division's need analysis, a staff of 16 staff would be mended construction perhaps to staff or year year of the controllation and the perhaps the controllation and the controllation and the perhaps the perh	() as follows: while used on the I during the pre- hi the , while the				
	6	2	18	1-3	1.23 2rd 5	DEH		Although well-run so clear commission continues were initiated by fewer you discussed of their injuritual in issue, usu in the continues in continues in including the second source in initiation, coloris and review searched on the continues of the continues of the continues of the continues of the buildings will result in greater domained for environments. Recommend that they will result in greater domained for environments and experience staffing, intering, each must be provided receively respond to the seade of the entitie population.	tor disease and th, commodity ulation as a contental health.				
	9	2	18	2.7	2.2.3 2nd 1	DEH		DEH anticipates increase of imported goods with the build- it the potential for increased number of non-compliant com- reacting the population. In addition to more staffing of DEF presence of federal counterparts are needed (i.e., resident; USFDA, USDA, USCDC, etc.) on Island.	modifies i, the physical				

Construction contractors who bring in H2B workers for work will be responsible for health screenings of the workers, the screenings are generally done before workers arrive on Guam.

Economic impact analysis does not assume that on-base spending will benefit the Guam economy. All on-base spending is removed from analysis and not included in measure of economic impacts.

J-017-024

Thank you for your comment.

This staffing information is in reference to GDPHSS BCDC in particular, not GDPHSS in total, and was based upon survey results received from the bureau.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-025

DEIS Final Drait Submission (02.03.10)(1)

Thank you for your comment. There are many reasons why the Marines (about half) are being moved from Okinawa. This discussion is provided in section 3.5.2 of the Socioeconomic Impact Assessment Study (SIAS) that is Appendix F, Volume 9 of the Draft EIS. Serious crimes by military personnel in Okinawa are committed at lower rate than the overall civilian population in Okinawa, despite reports to the contrary. Many serious crimes are based on singular incidents that are reported multiple times so that it appears to be multiple incidents.

		Druft E	Delberzive	for Discussion	n Only - Not Rela	resable through !	NO.	ERDEIS Comment Matrix (July 2009) Guum and CNMI Milita	ry Relocation ElS/OEIS
	10	Vol	Ch 10	Pg 2-10	Line, Tbl, Fig 2245	Org	Commenter (last name)	Comment: Responder Response There and the private harm consort related by poor consistence as a secure of one-consort Analysis and a secure of one-consort Analysis and related by the consistence of the consort of the	Author Vol Done Manager Checked
J-017-	11	2	18	347	Table 3.5-	рен		soling for USEI will be netwed to acknow the problem. The BAS 3.2 distores the moderation endigenement compression of Coursi's economy and feeds from 2000 to 2006. For thesp years, it is literated to be included to the control of the country of	
J-017-	02	6	18	4-147	Table 4.2-1; 4.2-2; 4.2-3; 4.2-6	DEH		Draft DEBS fails to assets the potential employment of critillarly dependence in the private sector. Thus a study should be conducted to assess what larged it would have on the bland (and DEH), if any,	
	13	2	18	4.5	N/A	DEH		Tempority Frowige 1629 Yeal Workers arming on Guarn with be housed in domithous which all welf be impeated by 1905. The west an arminer or domithous that will be consistence will impact DRI. Harding for greatment will be monospartly or deviar regist inspections of thems.	
J-017-	14	7	18	4.91	N/A	оен		This shift DSSI retrieves Massaaya Parior establishments. These way, suited establishments will be legenched by DSH. It is netword that the trushed or intessage pasters will investee with the arrival of Infl. sucrimar and the military, thus creating the need for more important. Therefore, It is reconserved to had DSFI is included in any leafletone created to address reassage partieve, must harding deaff the contact inspections.	
J-017-	04	8	16	16-24		овн		Usade of the handing. "Online on d'Environmental Healts," des report indicertes hand the children lances de 2,572 health controllation les FSC000." That is incorrect, the division lessed 30,290 health condicates. This needs to be correct.	
	18	2	Appendi	cF 3-12		DEH		Usedor the handing "Shakinon of Environmental Healing," the region tollations	
J-017-	17	1-	16	16-54 to 16-55		DEH		Useior for handing, "Temporary Wilsofates Horaing," the repot convented balloch those enclosing and Bully provides volcities moderal and finding floations. Although the disable rate regulations governing desiry facilities, it is followed to the provides of the regulation governing desiry facilities, it is followed to the provides of	
	18	2	16	18-72 to 16-78				Under the heading. "Notic Inside that in Union Services," in import nature in our conventral about the need for a deficious anticommental heading paracticesms in DRM to insolved to the in-convincetion and producing conduction to the conventral parameters and producing conduction to the conventral parameters are also as a service of the parameters of parameters are considered by DRM reset to be considered and funded and services provided by DRM reset to be considered and funded proceedings.	
	19	2	18	p. 18-161 18-17	0	DEH		Under the heading "headings locations of more productions of more particular control." More place previous and exception of either incomplishing and exception of one of the more promishing and for other addle to produce the production of the state of t	

Constitents Page 2 of 3 DES Finel Dreft Submission (00.03 40)(1)

The impacts of crimes on Guam are discussed in Volume 2 of the Final EIS. As noted in the SIAS: "A critical distinction when analyzing crime impacts is between the total numbers of crimes ("volume of crime") and the actual crime rate (numbers divided by population). Population increases always bring with them increases in the volume of crime, but the crime rate would increase only if new populations are disproportionately likely to commit crimes."

The DoD acknowledges that any increase in population, such as the one that these proposed actions would cause, may be accompanied by an increase in overall crime and social disorder. The DoD also acknowledges that widely publicized instances of military crime in Okinawa cause Guam residents to be concerned about possible repercussions on the island brought about by the increase in military population on Guam. The increase in population during the construction phase of the build up is recognized as a time for concern for increases in incidents of crime. Moreover, it is also acknowledged that the age group of many military personnel is often characterized as prone to conflicts and misbehavior. DoD educates its service men and woman on good behavior and will act promptly and rigorously to curtail any misconduct and enforce laws to protect the citizens of Guam and our military personnel.

DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

Vo	d Ch	Pa	Line, Tol, Fig	Crg	Commenter (tast name)		Comment		Responder	Response	a jaran	Author	Vol -
	_											Done	Checked
J-017-050	1	p.4-111	Tablo 4.4-93	DIEH		report assumes the permitting of facility construction (and of 15 division staff will and regulate impo- island construction	at there will be increase the and it monitoring, wo certain periods of the or till be necessary to issue what commodities in rea in workers. Additional panet, its dependents, an	is were derived. Also, the of activities in only the fifth is incorrect. In the positivities opening at particular phase) at this permits, inspect facilitie pornse to the anticipated ensonnel will be needed if all other population are	of of			,	

Comments Page 3 of 3 DDS Finel Draft Submission (60:03 10)(1)

J-017-026

Thank you for your comment. Workforce housing would be provided by the contractors as described in Volume 2, Chapter 16, "Socioeconomics and General Services." DoD would not provide workforce housing, but design/construction contracts would require the contractor to accommodate the workforce in accordance with specified health and safety standards. Various proposals are being developed by potential contractors in anticipation of winning a contract. The timing and location are unknown for construction and/or renovation of housing to accommodate the construction workforce, but it is possible that some of the workforce housing projects would begin independently of DoD's Record of Decision.

There are no plans to allow contractors to locate workforce housing on DoD-controlled land. Therefore, it is anticipated that should workforce housing needs require the construction of new housing, such workforce housing would be located on either private or Government of Guam lands. In either instance Guam officials would control the underlying land use and permit decisions associated with the siting of such housing. DoD would work with Government of Guam land use and natural resource officials to identify any contractor plans or efforts to construct workforce housing and DOD shall ensure that contractors are informed of their responsibilities to comply with Government of Guam land use restrictions. In particular, the Guam Land Use Commission recently issued GLUC 2009-1 which specifically addresses the issue of zoning for workforce housing.

J-017-027

Thank you for your comment. The Final EIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social

No. Vol. Chot. Pp. Fig. Commenter (last name). Arcition	Guam TB Incidence Rates per 100,00 Population:1997-2008	Agency/Org
Avioga	Odam 19 inchesive nates per 100.00 Population; 1997-2000 1997: 64.9; 1998: 69.7; 1999: 45.5; 2000: 34.8; 2001: 39.9; 2002-40.4; 2003:37.3; 2004:30.7; 2005:37.9; 2007:53.0	DPHSS DPHSS
3-017-051	Our data show that the increase of active TB cases from a low of 34.8/100,000 polulation to a high of 53.0/100,000 population. Although medical care and follow-up is provided to all military personnel and their dependents there could still be civilian contacts that could have been exposed that needed to be followed up all of whom require follow-up at the Guam Department of Public Health and Social Services. With the impending influx of contract workers coming from countries where Tuberculosis is	DPHSS
	and the imperioning limits of collisions with the collision of the collisi	DPHSS
	AND AND A SECOND OF THE PARTY O	DPHSS

services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-028

Thank you for your comment. Please see Section 4.2 of the Socioeconomic Impact Assessment Study (Appendix F of the DEIS) for information on the expected impacts on population that would result from the proposed action.

Analysis of Labor Force Demand (Section 4.3.1.1 of the SIAS), under both the unconstrained and constrained scenarios, assumes that some military dependents would be employed as civilian military workers - up to about 940 dependents working as civilian military workers. Analysis in the constrained scenario further estimates that other military dependents would participate in the Guam labor market, and would compete for jobs with other Guam residents.

J-017-029

Thank you for your comment. Overall traffic congestion and resulting travel times will increase as organic (non-military) population increases on Guam. The increase in population associated with the military build-up will also add traffic and increase congestion. The FEIS identifies a number of roadway improvement projects for the 2030 planning horizon, that if implemented, will offset the increased congestion attributable to the military at many locations.

J-017-030

Thank you for your comment. The sustainability and maintenance of

DEIS REVIEW COMMENTS SHEET

1	No.	Vol Chpt Pg Line, Tbl.	Commenter (last name)	Comment Agency/C
-017-	J 52			1. Ensuring the sustainability and maintanence are address in any upgrade, improvement, and recruitment.
-017-	053	i l		Increase in population corresponds to an increase in the request for the Cartificates of Birth, Death, and marriage which corresponds to an increase of workload requiring pay raises or recruitments.
		Volume 2: Marine Corps- Guam Public Health and	Division of Public Health/Office of Vital	Increase in population would ultimately increase marriages therefore issuance of marriage license applications to be issued from CVS.
		Safety	Statistics	4. The military build-up would definitely put a huge increase in the need for supplies, equipments and manpower to efficiently service the public without having long lines of people waiting to be serviced.
(3)				The need to re-evaluate salaries for the Office of Vital Statistics has to be revisited and adjusted to ensure compensation is equitable to other similar positions (i.e., Customer Service Rep.).

()

DoD facilities on Guam is a mandate of Joint Region Marianas. Maintenance bugets are annually programmed and approved. Sustainability principles with respect to conservation of resources is incorporated into the design. DoD is committed to low impact development (LID) and would achieve Leadership in Energy and Environmental Design (LEED) level of Silver.

J-017-031

Thank you for your comment. Volume 2, Section 18.1.1 indicates that this section discusses the potential public health and safety issues related to implementation of the proposed action and alternatives on Guam. The region of influence (ROI) for public health and safety concerns includes the entire island. The health and safety issues discussed in this section include operational and construction safety, environmental health effects, notifiable diseases, mental illness, traffic accidents, unexploded ordnance (UXO), and reduction in access to public services.

The FEIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-032

Thank you for your comment. The Socioeconomic Impact Assessment Study (Appendix F of the DEIS) provides expected employment

DEIS REVIEW COMMENTS SHEET

No.	Vol	Chpt	Pg	Line, Tbl, Fig	Commenter (fast name)	Connent Ag	ency/Org
J-017-054		18	4-8	,	Morris	When commenting on public health issues, the DEIS deals only with treatment aspects of public health [Incitation of the necessity to address prevention efforts such as obesity reduction, smoking cessation and early prenatal care. Nor does it address the attention which needs to be devoted to emritormental intervention (e.g., safe phaces to sexrice, youth programs, accessibility to nutritious foods across all socio-economic groups, etc.), without which health improvement impacting the entire population will not take place. When speaking of health care providers, it mentions only phyticians and nurses and does not address the necessity of increased infrastructure with all the other allied health professionals and the need for health planning consultation to address the population's health care holistically. Overall the DEIS needs to incorporate the things listed above.	455
		16	20-24		Morris	While giving a small mention (i.e., to prevention) to the role of Health and Human Services in "treatment and DP prevention (page 20 of Chapter 16)" in an introductory statement, the DES proceeds to speak almost exclusively of the rendement aspects of health care. It is interesting that of all the Bureauss within DPHSS, it mentions only those who have a major role in the treatment of disease: Primary Care Services, Communicable Disease Control and Nisring Services. With a few exceptions, it comments primarily on the services within these bureaus which deal with treatment to the exclusion of prevention. It makes no mention of the coverage areas of the Bureaus of Nuctrition or Professional Support Services whose public charge deals primarily with prevention efforts to provide individual and population-based health education, environmental health planning approaches and alled health professional support and consultation in the areas of Nutrition, Physical Activity, Canner, Heart Disease, Stroke, Disebets and Maternal and Child Health. An Environmental Impact Statement, tends to speak to where available health resources should be devoted (whether explicitly or implicity). Given this, I am concerned at what seems to be a dispropertionate amount of focus on treatment, with little regard to prevention. The DES needs to incorporate the present status and future need of increased educational, environmental, population-based health planning and increased allied health professional support to address the issues of military expansion in Guam.	HSS

requirements for guam public service agencies. It is not part of the scope of the EIS to develop a recruitment plan.

J-017-033

Thank you for your comment.

J-017-034

Thank you for your comment. The Final EIS identifies approximate numbers of civilian employees to be hired by the DoD. Specific hiring procedures, however, are not addressed in the EIS. DoD follows standard Federal hiring procedures to fill DoD civilian positions. Those can be reviewed at http://www.opm.gov//

Public comments on the Draft EIS are an important part of the decision-making process. This information becomes part of the Final EIS and is evaluated when DoD prepares the Final EIS and issues a Record of Decision at the end of the National Environmental Policy Act (NEPA) process.

J-017-035

Thank you for your comment. Volume 2, Section 17 outlines the regulatory framework for managing hazardous materials and hazardous waste. The Navy manages the storage, handling, and disposal of hazardous materials/waste to ensure compliance with Federal, local, and Navy hazardous materials management regulations and instructions/directives. Appropriate procedures have been established to identify training requirements for personnel routinely handling hazardous materials and to ensure a safe working environment and proper reporting/response in the event of a release.

DEIS REVIEW COMMENTS SHEET

No. Vol Chpt Pg Line, Tbl.	Commenter (last name)	Comment	Agency/Org
J-017-055 18	Manibusan	As the population grows, overcrowded conditions may lead to pollution, attess, the emergence of new diseases, traumatic injuries and violence. Those with low socio-aconomic conditions, suffer with the burden of mortality and morbidity.	DPHSS
J-017-056	Manibusan	The Community Health Nurses as well as the Central Region Health Cinic sees those without health insurance. There are only there home visiting nurses to cover the entire island of Guam. Moreover, the clinic has only two Registered Nurses and two Licensed Practical Nurses to run ten clinic services per day. The clinic has Mathemat child Health Clinics which includes Child Health, Family Planning, Women's Health, STID Clinics, Communicable TB Clinics, Immunication Clinics. All of these clinics are free services. The clinics will be affected by running out of supplies, medications diagnostic test, etc. The x-ray machine is old and need to be replaced or repaired. The clinic is in dire need of repair and remodeling. With the increase in population, the clinic will be more disposited.	DPHSS
18	Manibusan	The improvement of quality of living through health promotion, affective health care delivery systems, and enhancing the environmental infrastructure will consequently prevent increased diseases.	DPHSS
J-017-057 18 J-017-058	Manibusan	The stressors, such as lead poisoning, pesticides, air pollution, will directly affect human health. There will be an increase of cars on the roads, which consequently increase carbon monadid and will affect unborn fetuses. We need to provent an increase of Children with Special Health Care Needs.	DPHSS
J-017-058	Manibusan	Additionally, we should no forget small pox. With the military build-up, what are we doing to protect our population if this over emerges? The majority of nurses are not trained to do small pox vaccination if an epidemic ever occurs.	DPHSS
18	Manibusan	Community Health Nurse face many challenges. These include being responsive to emerging needs and health care issues within their aggregates, developing multidisciplinary models for practice that hold fast to the principles of primary prevention in health care. There is a need to do more research in practice implementations to achieve higher level of health and well-being.	DPHSS

J-017-036

Thank you for your comment. Alternative work schedules are a great way of reducing traffic impacts during the peak hours and should be considered by all businesses on Guam. A transit plan is included in the Guam 2030 Transportation Plan. A maintenance of traffic plan will be included in the design of the roadway projects to minimize the disruption of traffic during construction.

J-017-037

Thank you for your comment. Relating to cost of living and the proposed military buildup, it is noted that the history of inflation and recession of Guam's economy from the 1970s to present was provided on page 3-47 of the Socioeconomic Impact Assessment Study (SIAS). In subsection 4.3.1.4 (beginning page 4-10) of the SIAS, the subject of impact on the standard of living is addressed, stating: "Standard of living is a measure of purchasing power. If the standard of living increases for a person it means they can purchase more goods and services. If the standard of living declines for that person, he or she can purchase fewer goods and services. Changes in a person's standard of living are determined by their income and the prices of the goods and services they tend to purchase. A person's standard of living will increase if their income rises faster than the prices of goods and services they tend to purchase. A person's standard of living will decline if the prices of goods and services they tend to purchase rise faster than the person's income. In both the construction and operational components, the average wage of workers would increase as a function of greater demand for labor. However, the price of goods and services purchased by individuals would rise as well. It cannot be definitively predicted whether wages or the price of goods and services would increase at a faster pace. If wages earned by a particular household rise more quickly than the price of goods and services, then the standard of living would increase. If the price of goods and services rises more quickly than wages, the standard of living would decrease. For households on fixed incomes, the result would be reduced

	Z	Vo	G	P	line, Tol	Org	Commenter (inst name)		Responder	Guern and CNM Military Rei Response	Auth	
.7-	05	92	16	21		DPHSS-DPH		In 2005, Guern had a total of 244 physicians serving its population, including physicians at the Guern Memorial Hospital and Frontsed military physicians working on a part-time basis. (Western Pacific Region Health Databank 2007)	M. Loualhat	Guain has over 300 physicians that provide convices at Guain Microrial Prospilal. Some of these physicians do not extinely live on Guain, but, come to Guain for quarterly basis a provide much meeting depositely services such as threadic surgary.	Doe	
-	2	2	16	95	16.2.3.3	DPHSS-DPH		For health and human services, this chapter considered impacts on various aspects of the GAHA, the GDPHSS, the GDMHSA, and the GDISIO. These agencies would need a combined 192 new key professional workers by 2014, dropping to a combined 52 a few years later.	M. Louelhati	To combined GDPHSS' with other health care agencies with regards to new key professional workers is not a true collection of		
	3	2	18	21	18.2.6.5	DPHSS-DPH		No increases in identical for health care services would contra as invasid of additional intelligent profession of cours. Increases, the makes increase in population would reseal in a slight increase in dement for these careloses. An amount of makes the population increase or makes percentationally 1 additional develor and 3 additional review would be increased in the course of the course of the course of the course of the makes of the course of the course of the course of the course of the courset developed in the make the course of the course of the courset developed in the course of the course of the course of the courset developed in the course of the course of the course of the courset developed in the course of the cou	M. Loualhati	Afformation with the current health care stating at QDP+SS, additional entities, exhibite (e.g. constructing) attracted centary, additional entities, exhibite (e.g. constructing) attracted to interest the construction of the c		-
	4	2	18	21	18222	DPHSS-OPH		During the peak construction year (2014) 15 additional doctors (20% increase) and 91 additional doctors (20% increase) and 91 additional flowers (20% increase) would be required to maintain the carrier's terminal to accure survivor terminal and carrier's terminal doctors (riops to 2 (4% increase) and nurses stops to 12 (5% increase) and nurses stops to 12 (5% increase) and nurses stops to 12 (5% increase).	M. Loughati	Again, combining ODPISCO with other health care approxies with registric to the need of additional health care prefessional sends, pages of the reduction of the overall desting needs of ODPISCS. General pages of the control of the overall desting needs of ODPISCS and the operation of the control of th		
		9		4-	Table 4.4.1	DPHSS-DPH		Summary of Agency Survey Commonts of Existing Facility and distilling Challenges	M. Loualhati	Unione why there was no response from GDPHSS with regards to doubly opinity and staffing problems. However, GDPHSS next nevert durity to proble hearth one environse at the current necessary of the control from		
-2		-	П	7								
9	-	-1	+	-							_	_
10	0	-1	+	+								-
71	1		_	I		+						1
12		-	1	I								
14		-+	-1-	+								4
15	5	_	+	+								1
18			1	1								j
17		-	1	1								J
18		+	+	+								ŀ
20		+	+	+								1
21			-	+								,

purchasing power. Those with the ability to quickly renegotiate their wages will have a better chance at maintaining or increasing their standard of living." On page 4-11 of the SIAS, the discussion continues and discusses the income of military related construction and operational jobs that will, on the average, be higher than the present average wages on Guam. It concludes: "In terms of cost of living, from 2000 to 2008 Guam workers have seen their standard of living decline by 30% and there is no reason to expect the military buildup to reverse that trend – Guam workers will likely to continue to see the cost of goods and services rise faster than their incomes. While the proposed action may not represent a reversal of this trend, it will slow the rate of decline in the standard of living that has been prevalent since 2000."

J-017-038

Thank you for your comment. Please see Section 2.3.2, Page 2-12, of the Socioeconomic Impact Assessment Study (Appendix F of the DEIS) for information on permitting analysis methodology.

J-017-039

Thank you for your comment. Volume 2, Section 18.1.8 discusses public safety efforts to ensure roadways on Guam are safe. The Guam Police Department has instituted traffic safety checkpoints and safety education programs across the island. Traffic accident data for the years 2001 through 2005 indicated that, despite the population increase over the 5-year period, the number of traffic accidents has decreased. Guam DPW is conducting a safety and hazard elimination study to identify the most hazardous traffic locations on Guam. In addition, the Guam Territorial Transportation Improvement Plan contains 14 island-wide traffic hazard elimination projects that include school zone signs, village road safety and warning signs, seashore protection, pavement markers, anti-skid surfacing, and guardrails. As discussed in Volume 2, Section 18.2.2.7, there would potentially be more vehicles on the roadways resulting in more potential for accidents as a result of the increase in military

	Draft	Delib Gen	erative	for Discussion	Only - Not Relea	sable through FOIA	ERDEIS Comment Matrix (July 20		Guam and CNMI Military Reloc		OER
	Vol	Ch	Pg	Line, 7bl, Fig	Org	Consmenter (rost name)	Constent	Responder	Response	Author Done	Man Che
1	2	18	7	18.1.4.9	DPHSS	Schumann&atin	effect subpopulations impacted by STDS or HIV infection.	Schumahn	posulation increase:		
72-	-	1	1	18.2.2.3	DPHSS		hlegydia		 Them is recognition that the STD/HIV Program, Bureau of Contrastionble Disease, DPESS continues to faces complex and regional challenges. 		
3	2	18	17	18.2.2.3. Table 18.2.1	DP489	ir 16 re or th	among Goard's regentable STII bilanciates, Chânsyshi har by für the highest nativers. During year 2017-2008, the lightest landbares are facuse per 0,0000 populations) was senong 70-04 year-olds. In 2006, there was a detection of Chânsyski outers, with an incidence sets of 1811-45 as sequenced to the 2007 landbare rate of 2255-84, Between 2007 and 2008 at 20 to 22 lags group experienced on increase in incidence while the selection in the 410-50 age group deventioned in the contract of the 2007 and 2008.		There are no current studies/projections to determine the STATEVEV and other communicable diseases health borden impact as a result of the population charge.		
4	2	18	18			ි ග ස ද ද ද	Chiampida insidence ratio of 1783.71 for persons from the FSM (Yuphate, Penage, Konna) living on Groom in 2007 was the highest recorded not on the CSM (Yuphate, Penage). The CSM (Yuphate Penage) is the CSM (Yuphate Penage) in the Penage in the CSM (Yuphate Penage) in the Penage in the CSM (Yuphate Penage) in the Penage in		It is not known the input of STDs and HEV infection, of an improcedented magnitude on Gount's population. The imput of STDSHEV infection based on population by 20% increase by 2013 = 208,200 in acknown.		
5	2	118	22				issorrhea				-
6	2	16	25			22 26 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	he insidence mae for genomies by uge brankdaren in 2007 was highest money diese 20-24 years of age while in 2008 it was highest among those 20-24 years of age. Gentlands cause round learned by 2018 from 2007 to years of age. Genomies a construction of the contract of 2018 from 2007 to the contract of 2018 in the contract of 2018 in the contract of 2018 in the new was an internal of 2018 in the age group 25 to 20. Genomial contracts by distributy bound as increases of 2018 becomes 2007 to 2005. In collection of 2018 in the contract of 2018 in the contract of collection of 2018 in the contract of 2018 in the contract of 2018 to 2018. Contract to work of 2018 in the contract of 2018 and IIIV infection are most likely interested to potential epidensic breach.				
 	12	+18	126			+			†		1
8							Syphilis		 The STD/HIV Program, BCDC requests that an accurate burden of STDs, HIV and other communicable diseases are included in projected estimates based on the increase of population. 		
8						1	the incidence rate for syphilis by age in 2007 and 2008 was highest among home 20-24 years of age. Overall, there was an 1896 increase in the tools wanter of syphilis cause reported to the STD/IHV Program from 2007 to 1008.	1	 Also, the STD/HIV Frogress seeks additional resources should most of these workers status will be B-2B (temporary) work force who are expected to originate from developing nations such as the Phillippines, China and other neighboring Asian countries. 		

personnel and their dependents. The Navy uses focus group sessions with personnel to strategize potential measures to reduce the number of traffic incidents. Several common factors contribute to traffic incidents including; young personnel, late night, impaired driving, and alcohol/drugs. Some of the measures that would be implemented to reduce traffic incidents include awareness training regarding the consequences of drugs and alcohol use; increase Shore Patrol activity; and provide free shuttle bus runs to/from town.

Overall traffic congestion and resulting travel times will increase as organic (non-military) population increases on Guam. The increase in population associated with the military build-up will also add traffic and increase congestion. The DEIS identifies a number of roadway improvement projects for the 2030 planning horizon, that if implemented, will offset the increased congestion attributable to the military at many locations.

The 2030 Guam Transportation Plan outlines recommendations for an improved mass transit system on Guam. These recommendations included forming the Guam Mass Transit Authority and implementing high-capacity bus service on the island. In late 2009/early 2010, the Guam Regional Transit Authority (GRTA) was formed and will now be responsible for all public transit functions. The GRTA approved the Guam Transit Business Plan in January 2010, which includes purchasing new buses, constructing a bus maintenance facility, and modifying the bus schedule.

The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the U.S. Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DoD) to pay a fair share for public highway improvements required as a result of a sudden or unusual

	Draft De	Eberative f	or Discussion	Only - Not Relea	sable through FOV	ERDEIS Comment Matrix (July 20)	09)	Guam and CNMI Military Reloca	tion EIS	/OE
	Vol. C	ah Pig	Line, fbl, Fig	Crg	Commenter (last name)	Comment	Responder	Response	Author Done	M
17-	061					Syphilis cases by ethnicity were most prevalent strong the Milementalisate group, most notably sunce; the Charless An increase fore 2007 to 2008 by 18 was noted in the 2008 group, 18 m. 2008 group cases in the 2008 group case in the 2008 group case in the 2009 group case i				
11						Prolination; results from the Guan Second Generational Derwilliams Study conclused in 2007-2006 of approximately 150 Conduces reflects the therm as 120% positive pain for Technologies and 2 50 positive state for Generation During Sections of the 2004 pain and the Generation During Section recommend of the 2004 pain to the Concentration During Section Property and Section Section 100 positive for the pain of the Concentration of the 2004 pain and the Section				
13						According to the 2007 the Sexually Transmitted Disease Surveillance Seport by the Division of STD Prevention, the Chlarydia sate for Guan was 473.9 per 10000 and reduced for the station energy all states and outlying sexus. Among Guasa women, the althought mate was 779, per 100,000 per population. The geometre has fer Guann women was 787 per 100,000, the Healthy People 2010 target for geometres is 19.0 cases per 100,000.000.		Additional expectation of an increase of STDs and HIV infections from the outer Microcenia shared, the Federated States of Microcenia and Memball Shared on Companional Spatial Companion of the Companion of		
14						STDs as a co-instrbidity for increasing transmission of HIV infection				L
15						Although HIV infection is considered low and stable among the six (6) U.S. Facilite laberal Jarisdictions (FiDs), the insidence of Advancations cours continues to be a content as HIV infection spreads across the FiDs. The Ryan White State-olde Considerated Statement of Nord and Comprehencing Flam Bijelleninicipe Profile of HIV/AIDS on Communication the current statesion of HIV/AIDS cases in the printedistics.		SUMMARY		
15						Nineteen people with HIV/AIDS died on Guan from 2004 to 2008. Two people initially diagnosed with the disease on Guan subsequently left the jurisdiction and died on their home islands.		 Based on the current level of STD and HIV cases, current trends demonstrate that the impact may be significant if resources are not increased. 		
17						Sizon 1985, 105 or 50% of the 208 HIV oasos in the HIV stavislines ingistry ware MSM or MSM/TDI (Selection Drug Usear) costs, followed by 47 or 23% Enterocould Contact (EC) or ED/EDI costs. Other cases included 6.0-2% DLU, 2(19% primated internations, and 2,746%) Factor VIII, blood transfusion, and occupational exposure transmissions. And Milliary personals also testing HIV positive do not remain in Gussa and				

defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The Department of Defense, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to seek solutions to island-wide traffic issues.

J-017-040

Thank you for your comment. DoD acknowledges that the issue of land acquisition is a complex and sensitive one with both historical and contemporary contexts. Should DoD determine that additional land is necessary to meet its requirements, DoD policy requires that it negotiate with affected public and private land owners in good faith, seek agreements to acquire desired lands interests and pay fair market value. DoD is confident that all parties can reach agreement on any potential land acquisition. Further, any proposed major DoD land acquisition, such as those associated with the preferred alternatives for the main cantonment and live fire ranges, must be approved by the Congressional defense committees.

Specific areas being considered for acquisition are identified in the Final EIS.

J-017-041

Thank you for your comment and opinions. As you note, there would be an expected decline in economic activity as the construction phase of the proposed action winds down. However, all economic variables analyzed are expected to be at higher levels of benefit for every year in the foreseeable future than they otherwise would be without the proposed

	Draft Deliberative for Discussion Coly - Not Releasable through FOVA						ERDEIS Comment Matrix (July 20	009)	Guam and CNMI Military Relocation EIS/OEIS			
	Vol	Ch	Þg	Lime ^c Tbl. Fig	Org	Commenter (last name)	Comment*	Responder	Response	Author	Vol Manager Checked	
18									 Miligation of the impact from Federal performs—largely in the terms of funding for the STDHEV Program, DPESS and other communicable diseases (Tuberculosis, Republic B, HIN1) and federal percent such as Family Pinesing, Maternal Child Leadh and Community Health Catter, Mental Health and Subptance Abuse, and Hussing Urban Development. 			
19							in the past 5 years (2004-2009) there have been 4 SIV infections recorded among pregnets woman; of these worsen 3 were pregnent before receiving an ZIV positive result and 11 tested positive before becoming pregnant (in 2008 there were 3,466 believing to encoded on Damay.	ŧ	Secure notical and health professionals to expend programs to valueable populations such as reignants, injection drug users, commercial net workers and additionals.			
20									 Enhance the current STD/HIV surreillance system and evaluation especity surrong Guan and other U.S. Affiliated Pacific Islands Jurisdictions. 			
21	_	-	+-	_			References					
22							 Haddock M., Marphy-Sell M, Navel CL, Chrisfe C. Lack of persital outres re- emerging health problem on Guara. Hawaii Journal of Public Health (2008) 1(1);40- 44. 		FUNDING SOURCES:			
23		-	П				2. Carnacho, Nova, Buress of Statistics and Flaming. Government of Gram					
24							Substance, Bennefore P. Guen SGS preliminary results (2008), STA/STV Pergrant, DPRSS Division of Palific Health, Basess of Contraminable Diverse Control, Government of Quan. Haddoor RL, Asamel Statement of Solidate Diverse Middle Reports (2007).	1	The STIDIES Program activities are supported by U.S. denestic and international funding sources. The STIDIES Program collaborates with moreover partner agencies that one striving to achieve a delivery of high quality HIV and STID services in the jurisdiction.			
25			1				 Haddock RL, Agrinal Sammery of Nonlinkle Diseases Mediatry Reports (2007). Office of lipidemiclogy and Reseases, DPHSS, Government of Guara. 					
26	-	-	-		-							
27			\Box								_	
28											-	
29			_									
30	<u> </u>	_	-									
31		⊢	-									
32	-	⊢	-					1			_	
34	-	-	-					1				
26 27 28 29 30 31 32 33 34 35 36	-	-	+					1				
36	1	-	1			1						
37	1	1										
		_	T			1				_		
39			Т	}							-	
40								-		-	-	
38 39 40 41 42								-			-	
42	-	1	-	_								
43	├	-	+-			-				-	1	
44	-	-	+	-							-	
40	-	+	+	-				-	1			
48 47		-	-			1	1					
48		+-	1					STDARRYPS	OGRAM			
49	†	+	+-	 			u.	S. CDC and E				
50	-	1-	+				(Dogs	estic Greators	Annual Budget			
51	_	1	1		1		Comprehensive STD Prevention Systems and Infertility Prevention Pr	roject				

action. For instance, please note Figure 4.3-1 of the Socioeconomic Impact Assessment Study (Appendix F of the EIS), which shows higher levels of demand for labor during every year, with the proposed action, compared to the baseline trend which shows demand for labor without the proposed action.

The EIS anticipates that military housing would be built within the main cantonment area. It is anticipated that the majority of Marine families would rent units in the military housing and generally would not compete with Guam residents for available housing units. After the construction period, housing and rental prices could decline because the construction labor force (not including the H2B who will live in dormitory type quarters) would leave Guam. Civilian military workers may vie for Guam housing; however, residential housing needed for these long-term workers would likely be about 3,200 units (maximal) by 2020 (SIAS, Table ES-3, page v).

J-017-042

Thank you for your comment.

In the Socioeconomic Impact Assessment Study (SIAS), found in Appendix F of Volume 9 in the DEIS, the number of off-island H2B visa foreign laborers was estimated. Two scenarios were reviewed: the maximal number (unconstrained) and a constrained scenario. In Section 4.4 of the SIAS, there is detailed discussion and analysis of impacts to public services; some of the public services would be impacted by temporary workers and some would not. The Navy would require contractors who work on DoD projects to provide healthcare for their employees, including off-island/H2B workers. A small percentage may seek health and/or social services provided by Guam. However, workers would also contribute to the Government of Guam revenues in form of personal income and gross receipts taxes; corporations would pay corporate income taxes (See section 4.3.3, page 4-24 of the SIAS). The

Dont	carlt Deliberative for Discussion Only - Not Releasable through POIA ERDEIS C						ment Matrix (July 2009)	Guam and CNM	Guam and CNMi Military Relocation EIS/OEIS		
100.0		4.5			2.3 - 11100	현기 전투 관심을 중심했다고,	C 1 1 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2	Response	Author		
Vol	Ch	Pg	Line, Tul,	Org	(last name)	Comment	Responde	response	Done Ch		
			to glate the		-	Amount	\$238,000				
	\vdash	+					Internations				
-	-				+		Secretariut of the Pa	edific Community			
F	-	-+			-		Pacific Respe	oute Fund	\$32,000		
1	-					Argount			\$32,000		
-	\vdash	-+				TOTAL AMOUNT			\$904.60		
+	-				+	ANNUAL STD/HIV PROGRAM BUDGET			5904,00		
\vdash	Н				-						
-	\vdash				1		Other Local/State Partition	finded by U.S. 1015	\$1,100,000.00		
F	-					Community Health Centers (Northern/Southern Clinics)	,		\$1,100,000.00		
	-	-						(HRSA-HHS)	Towner		
-	-	\rightarrow			+	Hegatris B		5 not smilhble- Only vaccine funded for high risk population	a (coc)		
-	-	\rightarrow				Enterunimation Program 317					
-	-	-				Family Flarging		\$ 469,000.09 (1033)			
	1-					Tubercolosis Program		\$413,000.00 (CDC-IdRS)			
-	-				1	Material Child Health		\$766,226.00 (MCN1-HHSS)	⊢ ~		
-		-							\$106,000.00		
	-	-			_	Guam Public School System			2100/070100		
-	-	\vdash				YRBS-Youth Risk Behavior Survey		(Division of Adolescent School ((talth, U.S. CDC)	\$2,654,226,00		
+-	-	\vdash	-~-		+	Other US HHS Funding For Local/State Partners			\$4,654,245.04		
+	-	Н									
+	+	\vdash									
-	-	-			-						
-	+-	-									
	1	-									
-	-										
+	-	1		1							
+	-	-									
1	+-	-									
					3	<u> </u>					
	1										
-	\top		-								
1	\top			1							
T	1	Ι.									
	1.										
	-			-	-						
	-	1			-						
1 -	+	+-			+						
1	+	+-		+							
-	+	+-		+	+						
1	+	₩		+							
+	+-	+		+							
	-1-	-		-	-						
+	+	+									
3	-+	+		1	1						
-	+	1	-	-							
5	+	+-		+							
	+	+		1							
6											
14 15 16 17	-	1-									

additional money would flow into Guam's revenues and, depending on executive and legislative branches decisions, could be used to provide for additional public health and social services. Relating to the population figure of about 80,000 people; it should be noted the figure represents a maximal figure when most of the construction workers are still on Guam and the military populations arrive (2014); once construction is completed, the operational population would be about 33,400 (2016) (see the SIAS, Table ES-1, on page iii). Mitigation measures (as appropriate) to address the significant impacts will be discussed in the Final EIS.

Your concern about low capture rates is addressed in the Socioeconomic Impact Assessment Study (SIAS, which is Appendix F of the DEIS). Economic Impacts in the SIAS assume that only a small percentage of income will be spent in the Guam economy. Even with these low rates, there are substantial economic benefits projected for the Guam economy to be associated with the proposed action.

H2B workers are required to leave Guam once their jobs is finished. There may be some stay-behind workers but it is impossible to project an accurate number.

J-017-043

Thank you for your comment. Radiofrequency energy (RFE) emission sources are evaluated to determine relevant primary exposure limits to protect health and safety. Two types of exposure limits are considered:

1) occupational/controlled exposure limits in which persons are exposed as a consequence of their employment and are aware of the possible exposure, and 2) general population/uncontrolled exposures in which the general public may be exposed and are not aware of their potential exposure. Specific populations are not surveyed for RFE hazards.

J-017-044

Thank you for your comment. Please note that these comments on

	Draft Deliberative for Discussion Only Not Releasable through FOIA			Only Not Relea	eable through FOL	ERDEIS Comment Matrix (July 20	· 一定,1994年 - 1987年 - 1997年 -	Guam and CNMI Military Relocation EIS/OEIS			
31	Vol	Ch	ρŋ	Line, Thi, Fig	Org	Commenter (last name)	Comment	Responder		Author Done	Man
7-	06	218	5	18.1.4.2	DPHSS	Dugules	Tabi18.1-3. Note: One (1) of the 4 passes in 2000 contracted disease off-island.				_
2	2	16	5 & 17	18.1.4.3 & 18.2.2.3	DPHS8	Duguies	Although all reported cases of derigue were contracted off-island, the mosquila vector Andrea slobupitus is predominant on island. With increased controlled in additional and influx of wethoric carring from endernic areas, there's potential risk for this dispase to increase. It only takes one infected case and viable vector for transmission to cooper.				
3	-	_	-							_	-
4	-	1	-								
5	-	-	_			1					⊢
6	1	+-	_			1					-
7	+	1									-
8		1	1		1						i-
9		1	1								-
10		1									\vdash
11		1	1								Н
12		τ	$\overline{}$							~	✝
13		\top	$\overline{}$								H
14	1	1	_								t
16	1	+	1				I				t-
16		1									✝
17	1	+	1-		_						H
18		\neg	1								t
19		т	1							_	t
20	1	Т	1								t
21 22 23	1		T				<u> </u>			_	t
22		1									1
23			\Box								т
24 25		Т.	\Box		1						т
25											Т
26		\perp	1								Т
27								-			Т
28					-						Е
29		_									Т
30			1		-						1.
31	1	+	╄-		-						Ι
32	_	_	-			+					Τ.
33		1	<u> </u>								1
34	1	_									Т
35	4	-	-								1
36		4	+-		-	+		1		_	1
37		+	+					1		_	1
38	4-	+	+								1
36	4	+	+		+	+					4
45	4	+	+	-		-		1			4
41	4-	-	-		+	+					1
44	-1-	+	-		-		+				4
43		+	-								4
44	1	+	+	+	1	-				_	
45	4	4-		-	+			1			4
1 46	5.1	-1	1								_

assocated with an Early Release DEIS (July 2009) that was provided to several Federal and Guam agencies. These comments and DoD subsequent responses and additional analyses were contained in the Draft EIS published in November 2009.

J-017-045

Thank you for your comment.

J-017-046

Thank you for your comment. Please see the Socioeconomic Impact Assessment Study (SIAS, which is Appendix F of the DEIS) for information on economic impacts related to the proposed action. Analysis of Labor Force Demand (Section 4.1.1 of the SIAS), under both the unconstrained and constrained scenarios, assumes that some military dependents would be employed as civilian military workers - up to about 940 dependents working as civilian military workers. Analysis in the constrained scenario further estimates that other military dependents would participate in the Guam labor market, and would compete for jobs with other Guam residents.

J-017-047

Thank you for your comment. The potential for an increase in massage parlors have been highlighted as a public concern during the public comment period.

Public comments on the Draft EIS are an important part of the decision-making process. This information becomes part of the Final EIS and is evaluated when DoD prepares the Final EIS and issues a Record of Decision at the end of the National Environmental Policy Act (NEPA) process.

		Draft	Delibe	evitane	for Discussion (Only - Not Releas	able through FOU	ERDEIS Comment Matrix (July 20	09)	Guam and CNMI Military Reloc	ation ElS	OBIS
		Vol	Ch	Pg	Line, Thi,	Org	Commenter (last name)	Comment	Responder	Response	Author Done	Manag Check
-017	-0	63	8	6	18.1.4.6	DPHSS	Aguon	Table 18.1.6. Note: a. The one case in 1999 contracted disease off- island; b. One (1) out of the 3 cases in 2004 contracted disease off- island.				
	2	2	18	7		CPHSS	Aguan	What about HIV infection? There is no information and data for this serious problem on Guern.				
	3	2	18	18	18.2.2.3	CPHSS	Aguon	Yet to neive Section 16 regarding health screening, but or conscious, is white the contribution voters to me the tright contribute will be properly immunitied and screening before coming to Claim. The inflation of the military preserved and their dependents, as a major included the contribution of contribution of contribution will be a military preserved and their dependents, as a major contribution will be the military preserved and their dependents, as a major contribution will be the military preserved and their dependents, as a major contribution will be them then where the region countribute. Will these workers be re-exemined upon their enhalt on Grum to entity their health status?	*			
-017	-0 4	64 2	18	18	First paragraph	DPHSS	Aguen	Military will take care of their own but what of the local residents infected by the military personne? Treatment and care of these local residents sile on the local health system. Thus, the impact will be significant since the local system is already severely strained (personner, familities, equicipment and supplies) to meet oursent needs.		,		
-017	- 0	65 2	16	28		OPHSS	Aguan	743 more traffic incidents is not small. These incidents will occur on local, poblic roads so it will be the local police and GMS services responding within will greatly impact the Gussen Pelico Department and Gusen Pile Department. Both of thesis agondes are already operating behatigate in personnel, opulyament and supplies.				
	6		•									
	7 8			-								
	e e	-	⊢	-			-					-
	10											\vdash
	11			_					_			-
	12		⊢	+-								
	14	-	-	1			-		1		1	
	15						T				-	-
	16	-	-									-
	17		+	-			-					
00	19	-	+-	†							$\overline{}$	
	20										-	
	21 22	├-	-	-			-				-	-
	23	-	╁	+			 					
	24	_	-	+-								
	25			L								-
	26 27		H	-							-	-
	28	-	-	+			 					
	28	+	1	+-					~			
	30											\vdash
	31		1								-	\vdash
	32	1										-

J-017-048

Thank you for your comment. Our data was checked and amended as necessary.

J-017-049

Thank you for your comment. Workforce housing would be provided by the contractors as described in Volume 2, Chapter 16, "Socioeconomics and General Services." DoD would not provide workforce housing, but design/construction contracts would require the contractor to accommodate the workforce in accordance with specified health and safety standards. Various proposals are being developed by potential contractors in anticipation of winning a contract. The timing and location are unknown for construction and/or renovation of housing to accommodate the construction workforce, but it is possible that some of the workforce housing projects would begin independently of DoD's Record of Decision.

There are no plans to allow contractors to locate workforce housing on DoD-controlled land. Therefore, it is anticipated that should workforce housing needs require the construction of new housing, such workforce housing would be located on either private or Government of Guam lands. In either instance Guam officials would control the underlying land use and permit decisions associated with the siting of such housing. DoD would work with Government of Guam land use and natural resource officials to identify any contractor plans or efforts to construct workforce housing and DOD shall ensure that contractors are informed of their responsibilities to comply with Government of Guam land use restrictions. In particular, the Guam Land Use Commission recently issued GLUC 2009-1 which specifically addresses the issue of zoning for workforce housing.

In the Socioeconomic Impact Assessment Study (SIAS), found in Appendix F of Volume 9 in the DEIS, the number of off-island H2B visa

REVIEW COMMENTS SHEET

No.	Vol	Chpt	Pg	Line, Tbl. Comment	er (last name)	Comment
	2	18	4-8	Zabala		The Medical Social Services (MSS) will be inundated with additional requests for Medic intervention. Medical Social Workers are needed to provide social work intervention to diagnosed with high-risk medical conditions and/or psycho-social problems requiring s management services. Currently, MSS is understaffed and may not be able to handle t Funding to support the hiring of additional Social Workers, larger office space, furnitur supplies would enable MSS staff to provide intervention services to the anticipated inc
	2	18	4-8	Zabala		The Medical Records Section will also be tasked to prepare volumes of new patient rec requests for maintaining the existing workload. Medical Records Section is currently s and lacks the capability to handle the additional caseload. Therefore, funding to supproper additional Medical Records Clerks and to purchase larger office space, furniture, equip needed to provide medical records support to the anticipated increase of patients.
			4-8	Zabala		The Pharmacy Section will be in need of additional pharmaceutical and medical supplic equipment, supplies, office space, and storage. There is only one Pharmacist and Phar occupy approximately 500 square feet of office space which houses all Pharmacy persi equipment, pharmacutical and medical supplies which is inadequate for existing program be able to support future program needs. The current supply is barely enough to suppurarrent patients being served. Funding to support the costs of increasing all aforemen

foreign laborers was estimated. Two scenarios were reviewed: the maximal number (unconstrained) and a constrained scenario. In Section 4.4 of the SIAS, there is detailed discussion and analysis of impacts to public services; some of the public services would be impacted by temporary workers and some would not. The Navy would require contractors who work on DoD projects to provide healthcare for their employees, including off-island/H2B workers. A small percentage may seek health and/or social services provided by Guam. However, workers would also contribute to the Government of Guam revenues in form of personal income and gross receipts taxes; corporations would pay corporate income taxes (See section 4.3.3, page 4-24 of the SIAS). The additional money would flow into Guam's revenues and, depending on executive and legislative branches decisions, could be used to provide for additional public health and social services. Relating to the population figure of about 80,000 people; it should be noted the figure represents a maximal figure when most of the construction workers are still on Guam and the military populations arrive (2014); once construction is completed, the operational population would be about 33,400 (2016) (see the SIAS, Table ES-1, on page iii). Mitigation measures (as appropriate) to address the significant impacts will be discussed in the Final EIS.

J-017-050

Thank you for your comment. Please see Section 2.3.2 of the Socioeconomic Impact Assessment Study (Appendix F of the EIS) for the approach to analysis for permitting agencies.

It is noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of

2 18

Impact Statement

Health Care Services

The proposed military buildup will have potential impact to the Bureau of Professional Support Services in the health care services arena:

J-017-066

- 1) The Medical Social Services (MSS) will be inundated with additional requests for Medical Social Workers intervention. Medical Social Workers are needed to provide social work intervention to clients who are diagnosed with high-risk medical conditions and/or psycho-social problems requiring specialized case management services. Currently, MSS is currently understaffed and may not be able to handle the additional caseload.
- 2) The Medical Records Section will be also be tasked to prepare volumes of new patients records and additional requests for maintaining the existing workload. Medical Records Section is currently severely understaffed and lacks the capability to handle the additional caseload. Therefore additional Medical Records Clerks are needed to provide medical records support to the anticipated increase of patients.
- 3) The Pharmacy Section will be in need of additional pharmaceutical and medical supplies, personnel, equipment, supplies, office space and storage. There is only one Pharmacist and one Pharmacist Technician who occupy approximately 500 sq. ft. of office space which houses all its personnel, furniture, equipment, pharmaceutical and medical supplies which is inadequate for existing programs needs, and will not be able to support future program needs. The current supply is barely enough to support the needs of the current patients being served.

With the anticipated increase in Guam's population and subsequent increase in demand for services as a result of the military buildup, the bureau's growth must be addressed to include requirements for larger office facilities to house additional personnel, furniture, equipment and supplies, and clients.

Prepared by:

Health Services Administrator

Bureau of professional Support Services

January 29, 2010

the proposed action. The data used in the analysis were derived from surveys and interviews performed in conjunction with the EIS, and serve as a point-in-time indication of staffing levels. It is acknowledged that it is not possible for this analysis to capture all requirements of GovGuam agencies. It is expected that the Fiscal Impact Assessment, conducted by GovGuam consultants and funded by the Department of Defense Office of Economic Adjustment, will be able to more fully capture recent public service impacts, and provide a more detailed indication of fiscal impacts to GovGuam agencies.

J-017-051

Thank you for your comment. Incidents of notifiable diseases (including TB) for Guam were collected from the Government of Guam, Department of Public Health and Human Services, Office of Epidemiology and Research. Statistical information collected from this agency were used to determine the per capita rate for the diseases and calculate the potential increase in disease incidents due to the buildup on Guam (military, construction worker, and natural population increase).

Volume 2, Section 16 specifies that the DoD would rely on construction contractors, who have significant expertise in the areas of workforce housing and logistics, to support temporary foreign workers. There would be health screening of all workers to reduce health risk to the Guam population. Contractors would also be required to provide health care either by supplementing local Guam staff and resources or building their own clinic.

Volume 2, Chapter 16 also discusses the impact of an increased patient to health care provider ratio as a result of population growth with implementation of the buildup. The impact analysis in Chapter 16 identifies significant adverse impacts to public service agencies

REVIEW COMMENTS SHEET

				VEALER COMMENS 201551
No. Vo	of Chpt		Tbt. Commenter (lest name)	Comment
J-017-067	18.2.6.5	18.21	Linda Uipilagoo-DeNorcey	The EIS states the following: "No increases in demand for health services would cover as a result of additional military activities on Gunn. However, the natural increase in operation would result in a night increase in demand for these services. As a result of ratural population increase on Gunn, approximately 1 additional doors and 3 additional mirrors would be required to maintain current service mixed. These additional methic are professionals would be limited in order to maintain current service mixed. There would be an increase of 25 family practificaters, 1 certified narse midwife, and 1 marse parefulioner, 3 narses, 4 narve aides, and 8.5% other support staff in 2014, the peak of the military build-up construction an compared to 2018. However, according to the TIS draft, Chapter 18.2.6.5 (page 18-21), it states that approximately 1 additional doctor and 3 additional urness would be required to maintain current service ratios. Thus, there is definitely a discrepancy of 1 physician and 2 mid-level providers, 4 narve nides, and there is no mention of additional support staff (i.e., medical record cherks, ab technicians, pharmacists, and pharmacy checknicians). Interesting enough, the Gunan Chammungity Health Centers has just recently completed the 2018 Uniform Data System Report (UIS) and data reveals an increase of 6% in the percentage of patients (from 13,377 in 2008 to 14,187 patients in 2009) and a 9% rise in medical visits (from 36,705 in 2008 to 40,083 in 2009).
	18.2.6.5	18-21	Linda Unplingco-DeNorcey	Furthermore, the EIS draft Section 18.2.6.5 Health Carc Services (page 18-21) states: "These additional health care professionals would be hired in order to maintain the current service ratios." The EIS draft on page 18-22 states: "Without corresponding increases in health care provides potentials brath and active jumposes could include: longer waiterpostes time for patients, fewer or no available providence on island for chronic or acute issues, complications or doubt from delayed treatment, and or requirements for patients to travel off-island to receive dequate treatment. However, because corresponding increases in dectors and marses is anticipated to occur to maintain existing service conditions, no impact on beath services from the no oction admensive or anticipated." There is nothing in the draft EES that provides any suggestive strategies or the recruitment of health prefessionals and the hiring of health professionals is a very created problem on so only no Guann, but the entire U.S The draft EIS assumes that the increases in doctors and narres are satisficated to occur, but there is no laformation on the draft EIS of low Cuam would get more narres and doctors. For the draft is not so that that there would be no impact to health acresive in the octor and understand the state of the state

influenced by population increases. These impacts would be mitigated by assisting GovGuam in funding for health services personnel. Possible measures discusses that the DoD could take to support increased staffing of required positions include seeking federal funding for necessary positions; increasing the number of private staffing and service contractors currently working for service agencies; and supporting a one-time hiring bonus of 20% of base pay for GovGuam agency positions, to increase interest in GovGuam agency employment. These measures could aid in increasing the number of health care professionals on Guam. The EIS does not identify specific funding sources.

The FEIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-052

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and

REVIEW COMMENTS SHEET

DEIS

18.2.1.3 18.21 Linda Unpingco-DeNorcey

J-017-068

Guam has been classified as a "Health Professional Shortage Area (HPSA)" with a HPSA score of 11 due to several factors; a population to primary care physician ratho of 2,885;1 (2,835 pools) per every 1 primary care physician ratho of 2,885;1 (2,835 pools) per every 1 primary care physician that exceeds the U.S. typical standard of 1300;1;5 1% of the population are below 200 percent of powerly level; 34% of the population hav/Geling to form of health insurance coverage; and the high need for primary health care services. The shortage of health professionals is primarely attributed to the difficulty is recruiting providered whe to Geam's eventoe island setting, small scale, and territorial situes (i.e., not linked to any larger state entity), the physicians party not comparable to U.S., rate, and the high cost of analyzarcetic insurance on Guasa. According to the 2008 Health Professional Licensing Office data, Geam has \$5 full-time equivalent primary care physicians (24 funlly practifications, 7, 30 pediatrican), 5 general practifioners, and 18 internishs). With a population of 767,256, 58 FIE primary care physicians are simply not enough for the entire Island. The Island has only a limited aumber of pacification, the health of 1 and 1 produced the produced produced the produced produced the produced produced the produced at the centre of the pacification of the produced produced the centre of the pacification of the produced the produced the produced the centre of the produced the produced the centre of the produced produced the central and morther part of the island (Seventh Day Adventist Claice, Panilly Health Pland Debat Claice, Centre Centre and decorate of solver paster produced the Addi Plandly Destat Health Pland Debat Claice, Podiatric Destat (Letter, and decors of solve private practicing dentities. Morrower, Mental Health Guam has been classified as a "Health Professional Shortage Area (HPSA)" with a HPSA score of 11 due to several Deutal Clinic, Pediatric Dental Center, and duzens of sole private practicing dentists. Moreover, Mental Health Services are primarily available at the Department of Mental Health and Substance Abuse and the island has 3

that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

J-017-053

Thank you for your comment. Our data was checked and updated as possible.

J-017-054

Thank you for your comment. Statistical information collected from the Office of Epidemiology and Research were used to determine the per capita rate for the diseases and calculate the potential increase in disease incidents due to the buildup on Guam (military, construction worker, and natural population increase). The Navy understands the importance of preventing diseases and will work with GovGuam to ensure these health issues are appropriately addressed during and after the buildup. Volume 2, Chapter 16 discusses the impact of an increased patient to health care provider ratio as a result of population growth with implementation of the buildup (health care providers provide treatment as well as preventative care). The impact analysis in Chapter 16 identifies significant adverse impacts to public service agencies influenced by population increases. These impacts would be mitigated by assisting GovGuam in funding for health services personnel. Possible measures discusses that the DoD could take to support increased staffing of required positions include seeking federal funding for necessary positions; increasing the number of private staffing and service contractors currently working for service agencies; and supporting a one-time hiring bonus of 20% of base pay for GovGuam agency positions, to increase interest in GovGuam agency employment. These measures could aid in increasing the number of health care professionals on Guam. The EIS does not identify specific health services or funding sources.

Thank you for your comment. The FEIS has been updated (Volume 2)

DEIS REVIEW COMMENTS SHEET

Linda Unpingco-DeNorcey

J-017-069

Some of the deprementation of privite health and destal clinics do accept Medicaid or MIP patients specializing. This usually happens in the beginning of the fiscal year when the government luminator programs have beard appropriated, but they does in their doors mishing virtuously the year when funds have defineded, or are as though exceedable of the programs and their doors mishing virtuously they as when funds have defineded, or are as though exceedable of their and their doors mishing virtuously they are when funds have defineded. Therefore, an experiment is a superior of the providers and are also as the providers are also as the providers and are also as the providers and are also as the providers are also

to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-055

Thank you for your comment. The FEIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-056

Thank you for your comment. Our data will be checked and updated as possible.

J-017-057

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and

REVIEW COMMENTS SHEET

J-017-070 18.2.1.3 18-21

REVIEW COMMENTS SHEET

Additionally, the draft EIS Section 18.2.1.2 Issues Identified during Public Scoping Process (Page 18-12), which states: "As part of the analysis, recovers released to public brother and afreey that were mentioned by the public including requisitory statebookses, during the models of the public scoping sections was adversed. The public process in public scoping sections was adversed. Section 18.2.1.2 Including the public scoping sections in the public scoping sections was adversed. The public scoping public increases in mortal literase, posterior increases in mortal literase, and potential processions of the public scoping sections and the public increase of the public scoping sections, and potential public scoping sections, and public sections of the public scoping sections, and public scoping sections are sections and sections and increases in the public scoping sections are sections; and the contradigues are sections and sections and sections are sections; and the contradigues are sections and sections and sections and sections and sections and sections are sections; and the section and sections are sections. The section process are sections and sections and sections are sections and sections and sections and sections are sections. The section process are sections and sections and sections are sections and sections and sections and sections and sections are sections. The section process are sections and sections and sections are sections and sections and sections and sections are sections. The section process are sections and sections are sections and sections and sections and sections are sections. The section process are sections and sections are sections and sections are sections. The section process are sections and sections are sections and sections are sections. The section is section and sections are sections are sections and sections and sections and sections are sections. The section is section and sections are sections are sections and sections are sections. The section is se population). Clearly these bouplat admissions reveal that justions is rule accusated unit to effect the completed of the most premissed below and traper could allowed (CSRID) are ordered by the formal displays center in business on such a small labed. Thus, these disbettes indicatons clearly share that additional interval to the behighment from some such as small labed. Thus, these disbettes indicatons clearly share the additional interval properties. Gillend additional interval in the behighment of the behighment of the confidence of the confide ulation (543 hospital admissions for hypertension per 190,000 population)

infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam. The DoD has kept the public informed as required by NEPA, which includes holding public scoping meetings and public hearings and allowing the public to comment on the DEIS. DoD has had ongoing discussions with Cooperating Agencies (those federal and local agencies with special expertise or regulatory oversight) throughout the preparation of the DEIS and will continue these discussions with agencies through the completion of the Final EIS. The DoD has also met with elected officials.

J-017-058

Thank you for your comment. Because smallpox was wiped out many years ago, a case of smallpox today would be the result of an intentional act. A single confirmed case of smallpox would be considered an emergency. Thanks to the success of vaccination, the last natural outbreak of smallpox in the U.S. occurred in 1949. By 1972, routine smallpox vaccinations for children in the U.S. were no longer needed. In 1980, smallpox was said to be wiped out worldwide, and no cases of naturally occurring smallpox have happened since. Today, the smallpox virus is kept in two approved labs in the U.S. and Russia. However, credible concern exists that the virus was made into a weapon by some countries and that terrorists may have obtained it. The Centers for Disease Control (CDC) calls it a "Category A" agent. Category A agents are believed to present the greatest potential threat for harming public health. A Smallpox Response Plan and Guidelines has been developed by the CDC to provide direction to state and local health officials for responding to a smallpox emergency. The plan identifies many of the federal, state, and local public health activities that need to be undertaken in a smallpox emergency. It also provides guidelines for

REVIEW COMMENTS SHEET

J-017-071

18-16

Linda Unpingco-DeNorcey Furthermore, the draft EIS (page 18-16) states: "According to the impact analysis in Chapter 16, significant adverse impacts would occur to public service agencies influenced by the population increuses. These impacts would be mitigated singuists would occur to pulsion service agreemes intunenced by the operations microsiane. Indeed industrial or an apparatus microsiane, a time industrial or an apparatus microsiane, a time industrial or an apparatus microsiane. This statement is quite broad and does not specifically identify whether or not the Gream Community Health Centers are included in the funding for health services personnel in well as the amount of funding that would be needed for the Gruma Community Health Centers. Obviously, it is evential that the Groun Community Health Centers be included as one of the Gov Goam agencies for Obviously, it is crucial that the Gaum Cammunity Health Centers be included as one of the Gov Gunn agencies for neck funding because when construction workers are roller of the military build-up, they may not accessively have an identification over of health insurance coverage for care, and those without coverage would further strata. Gann's exhating health care resources, particularly the Gann Community Health Centers and Guan Memorial Hospital. Additionally, Southern Region Community Health Center is currently undergoing a physical space for a grainary health that inclineds the efficiency of elleft flow, which results in a lengthy patient waiting time and ultimately inaccessibility to primary health care services. For instance, Southern Region Community Health Conter's current physical flow ofeign in or to conductive for a primary health care claim operation to it needs to be expanded to meet the growing demand for primary care services. Expanding SEGE (by adming 1943 see, for oppose the existing facility (from 14,989 to 3,467 se, ft) includes dombling the exam reous from 6 to 12 G rooms per clinician). Additionally, redesigning the patient flow positively impacts service delivery and optimize provider productivity resulting in themson of other patients. Moreover, investing in an electronic health record system can improve the efficiency of patient flow, which issues to a state of the patient services in the author which the author without gening the matter through the matter writing term, thus althout memory care appeties to access primary betalther are verices. With more patients Mereaver, javetting in an electronic health record system can unprove the entacting of patient two, what seems the patient willing time, thus allowing more padents to access primary bealth care services. With more patients accessing primary care services, there would be an increase in the number of medical visits. Thus, funding for additional medical capacity is needed so that the CRC can alie more peroviders, nurses, nurse nides, and support staff who would be housed at the newly expinded and removated SRCHC.

many of the general public health activities that would be undertaken during a smallpox emergency. This plan also includes the creation and use of special teams of health care and public health workers. If a smallpox case is found, these teams will take steps immediately to control the spread of the disease. Because small pox is believed to be eliminated worldwide, the EIS does not address a possible outbreak of the disease.

J-017-059

Thank you for your comment. The Final EIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-060

Thank you for your comment.

J-017-061

Thank you for your comment.

J-017-062

Thank you for your comment. Volume 2, Section 18 indicates that with construction activities, there is a potential for standing water and water based vectors such as mosquitoes and related diseases. To limit the amount of standing water at construction sites, BMPs would be



GOVERNMENT OF GUAM AGANA, GUAM 96932

January 29, 2010

MEMORANDUM

To: Director, Department of Public Health and Social Services

Via: Acting Chief Public Health Officer

From: Administrator, Bureau of Primary Care Services

Subject: Response/Comments on Draft EIS/OEIS

In response to the draft of the EIS, Chapter 18.2.6.5 (page 18-21), the EIS states the following: "No increases in demand for health services would occur as a result of additional military activities on Guam. However, the natural increase in population would result in a slight increase in demand for these services. As a result of natural population increase on Guam, approximately 1 additional doctor and 3 additional nurses would be required to maintain current service ratios. These additional health care professionals would be hired in order to maintain current service ratios".

The Guam Community Health Centers used the formula as recommended by facilitators of the U.S. Bureau of Primary Care grant writing workshop of having 1 medical physician per 1,100 patients and 1 mid-level provider (i.e., nurse practitioner, certified nurse midwife) per 750 unduplicated patients. Using this formula, and the U.S Grantee Comparison Report from the U.S. Bureau of Primary Care Services, the latter revealing an average of 2.74 visits per patient, the Guam Community Health Center calculated its 5 year projection of medical visits and patients. In the year 2010-2011, the Guam CHCs anticipates 15,027 patients and 41,306 medical visits with an increase in staffing from 52 to 59.9. In Year 2 (2011-2012), the Guam CHCs anticipated 16,127 patients and 44,320 medical visits with 67.95 FTE staff and in Year 3 (2012-2013), there would be a 5% increase in both medical visits and patients resulting in 16,877 patients and 46,375 medical visits with 70.95 FTE staff. Moreover, during peak construction force of the military buildup in 2014, an 11% increase in both medical visits and patients is expected using the same formula previously mentioned, which garnishes 18,727 patients and 51,444 medical visits with a staffing of 78.95 FTE. However, after the peak, the CHCs anticipate an increase of 6% in both the percentage of patients and medical visits resulting in 19,827 patients and 54,458 medical visits with a staffing of 83.95 FTE. Please see table below.

implemented such as draining or filling stagnant water pools, puddles, and ditches; removal of containers that catch/trap water (e.g., buckets, old tires, cans); and if necessary, apply pesticide (e.g., Bacillus thuringensis) to help control mosquitoes. Implementing these BMPs would reduce the opportunities for an outbreak of water-related diseases.

J-017-063

COMMONWEALTH NOW!

Thank you for your comment. Incidents of notifiable diseases (including TB) for Guam were collected from the Government of Guam, Department of Public Health and Human Services, Office of Epidemiology and Research. The number of AIDS cases is presented in Table 18.1.2. Volume 2, Section 16 specifies that the DoD would rely on construction contractors, who have significant expertise in the areas of workforce housing and logistics, to support temporary foreign workers. There would be health screening of all workers to reduce health risk to the Guam population. Contractors would also be required to provide health care either by supplementing local Guam staff and resources or building their own clinic.

The FEIS has been updated (Volume 2) to better address impacts on social services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

Guam Community Health Centers 5 Year Projection of Medical Visits and Patients

	177.0	uicai vis	tto and a	MULUITU		
Year		1	2	3	4	5
T	UDS	2010-	2011-	2012-	2013-	2014-
Year	2008	2011	2012	2013	2014	2015
Staffing Current	52.00	59.9	67.95	70.95	78.95	83.95
Patients	13377	15027	16127	16877	18727	19827
Visits 36,705	36705	41306	44320	46375	51444	54458
Patient						
Percentage						_
Change		12	7	5	11	6
Visits Percentage						
Change		13	7	5	11	6
Number of						
Additional						4400
Patients		1650	1100	750	1850	1100
Number of				2055	E000	3014
Additional Visits		4601	3014	2055	5069	3014
1 MD=1100						
patients						
1 mid level	*					
providers=750 pts						
2.74 visits/patient						

J-017-064

Thank you for your comment. The Final EIS has been updated (Volume 2) to better address impacts on social services.

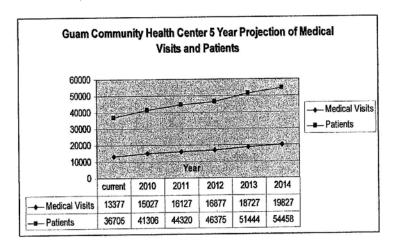
As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

DoD recognizes the importance of reducing adverse effects on the people of Guam, its natural resources, and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to ensure that the short-term impacts of construction are managed effectively and that the long-term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

J-017-065

Thank you for your comment. Statistically, an increase in the number of traffic incidents could result as a result of increased military personnel, increased workers coming to Guam, as well as natural population increases. As discussed in Volume 2, Section 18.2.2.7, there would potentially be more vehicles on the roadways resulting in more potential for accidents as a result of the buildup. The Navy uses focus group sessions with personnel to strategize potential measures to reduce the number traffic incidents. Several common factors contribute to traffic incidents including; young personnel, late night, impaired driving, and alcohol/drugs. Some of the measures that would be implemented to reduce traffic incidents include awareness training regarding the

· *, .* .



Medical	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015
Staff					
FP	3.0	4.0	4.0	5.0	6.0
Internist	2.0	2.0	2.0	2.0	2.0
Neurologist	0.2	0.2	0.2	0.2	0.2
OB/GYN	0.6	0.6	0.6	0.6	0.6
Pediatrics	2.95	2.95	2.95	2.95	2.95
CNM	1.0	1	1	2.0	2.0
NP	1.6	1.6	2.6	2.6	2.6
Total	11.35	12.35	13.35	15.35	16.35
Providers		100	10.8	11.8	12.8
Nurses	8.8	9.8			
Nurse	5.0	6.0	7.0	9.0	10.0
Aides					
Other Staff	34.75	39.8	39.8	42.8	44.8
Total FTE	59.9	67.95	70.95	78.95	83.95

J-017-072

7 1, 7

The table above clearly indicates that there would be an increase of 2 family practitioners, 1 certified nurse midwife, and 1 nurse practitioner, 3 nurses, 4 nurse aides, and 8.05 other support staff in 2014, the peak of the military build-up construction as compared to 2010. However, according to the EIS draft, Chapter 18.2.6.5 (page 18-21), it states that approximately 1 additional doctor and 3 additional nurses would be required to maintain current service ratios. Thus, there is definitely a discrepancy of 1 physician and 2 mid-level providers, 4 nurse aides, and there is no

consequences of drugs and alcohol use; increase Shore Patrol activity; and provide free shuttle bus runs to/from town. Traffic accident data for the years 2001 through 2005 indicated that, despite the population increase over the 5-year period, the number of traffic accidents has decreased. In addition, the Guam Territorial Transportation Improvement Plan contains 14 island-wide traffic hazard elimination projects that include school zone signs, village road safety and warning signs, seashore protection, pavement markers, anti-skid surfacing, and guardrails. Volume 2, Section 16 discusses possible measures that the DoD could take to support increased staffing of required positions. These measures include seeking federal funding for necessary positions: increasing the number of private staffing and service contractors currently working for service agencies; and supporting a one-time hiring bonus of 20% of base pay for GovGuam agency positions, to increase interest in GovGuam agency employment. These measures could aid in increasing the number of public safety personnel on Guam. The EIS does not identify specific funding sources.

Overall traffic congestion and resulting travel times will increase as organic (non-military) population increases on Guam. The increase in population associated with the military build-up will also add traffic and increase congestion. The DEIS identifies a number of roadway improvement projects for the 2030 planning horizon, that if implemented, will offset the increased congestion attributable to the military at many locations.

The 2030 Guam Transportation Plan outlines recommendations for an improved mass transit system on Guam. These recommendations included forming the Guam Mass Transit Authority and implementing high-capacity bus service on the island. In late 2009/early 2010, the Guam Regional Transit Authority (GRTA) was formed and will now be responsible for all public transit functions. The GRTA approved the Guam Transit Business Plan in January 2010, which

mention of additional support staff (i.e., medical record clerks, lab technicians, pharmacists, and pharmacy technicians). Interesting enough, the Guam Community Health Centers has just recently completed the 2009 Uniform Data System Report (UDS) and data reveals an increase of 6% in the percentage of patients (from 13,377 in 2008 to 14,187 patients in 2009) and a 9% rise in medical visits (from 36,705 in 2008 to 40,083 in 2009).

J-017-073

. . . .

Furthermore, the EIS draft Section 18.2.6.5 Health Care Services (page 18-21) states: "These additional health care professionals would be hired in order to maintain the current service ratios." The EIS draft on page 18-22 states: "Without corresponding increases in health care providers potential health and safety impacts could include: longer wait/response time for patients, fewer or no available providers on island for chronic or acute issues, complications or death from delayed treatment, and/or requirements for patients to travel off-island to receive adequate treatment. However, because corresponding increases in doctors and nurses is anticipated to occur to maintain existing service conditions, no impact on health services from the no-action alternative are anticipated."

There is nothing in the draft EIS that provides any suggestive strategies for the recruitment of health professionals and the hiring of health professionals is a very crucial problem not only on Guam, but the entire U.S. The draft EIS assumes that the increases in doctors and nurses are anticipated to occur, but there is no information on the draft EIS of how Guam would get more nurses and doctors. For the draft EIS to also state that there would be no impact to health care services is not at all supported with any documented data and information. Thus, as the CHC Executive Director, please allow me to justify my disagreement with the statement that there would be no impact to health care services.

Guam has been classified as a "Health Professional Shortage Area (HPSA)" with a HPSA score of 11 due to several factors: a population to primary care physician ratio of 2,883:1 (2,883 people per every 1 primary care physician) that exceeds the U.S. typical standard of 1500:1; 51% of the population are below 200 percent of poverty level; 34% of the population having no form of health insurance coverage; and the high need for primary health care services.

The shortage of health professionals is primarily attributed to the difficulty in recruiting providers due to Guam's remote island setting, small scale, and territorial status (i.e., not linked to any larger state entity), the physician salary not comparable to U.S. rate, and the high cost of malpractice insurance on Guam. According to the 2008 Health Professional Licensing Office data, Guam has 58 full-time equivalent primary care physicians (24 family practitioners, 13 pediatricians, 3 general practitioners, and 18 internists). With a population of 167,226, 58 FTE primary care physicians are simply not enough for the entire island. The island has only a limited number of specialists, which includes 1 cardiologist, 3 nephrologists, 2 orthopedic surgeons, 6 general surgeons, 6 OB/GYNs, 2 Ear Nose and Throat (ENT) specialists, 2 neurologists, 1 oncologist, 1 neurosurgeon, 2 infectious disease specialists, 0 pulmonologist, and 0 gastroenterologist.

includes purchasing new buses, constructing a bus maintenance facility, and modifying the bus schedule.

The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the U.S. Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DoD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The Department of Defense, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to seek solutions to island-wide traffic issues.

J-017-066

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other federal programs and funding sources that could benefit the people of Guam.

5

Additionally, there are 50 dentists practicing on Guam including 1 oral maxillofacial, 1 periodontists, 2 endodontists, 2 orthodontists, and 5 pediatric dentists. Most of the dental clinics are located at the central and northern part of the island (Seventh Day Adventist Clinic, Family Health Plan Dental Center, Gentle Care Dental Associates, Ordot Dental Clinic, Isla Dental, Hafa Adai Family Dental, Hightower Dental Clinic, Pediatric Dental Center, and dozens of sole private practicing dentists. Moreover, Mental Health Services are primarily available at the Department of Mental Health and Substance Abuse and the island has 3 psychiatrists.

Some of the aforementioned private health and dental clinics do accept Medicaid or MIP patients sporadically. This usually happens in the beginning of the fiscal year when the government insurance programs have funds appropriated, but they close their doors midway through the year when funds have dwindled, or are no longer available and there is no more reimbursement. Therefore, most of the private health clinics cannot be counted upon to serve MIP and Medicaid patients in a consistent manner. Additionally, they accept a few uninsured or underinsured patients who can afford to pay up front. Private providers also are quite ineffective in caring for the medically underserved patients because they are busy enough with insured patients. Most decline to accept new patients, particularly the uninsured and those with government insurance. Government insurance pays poorly-far below the private insurance rates, pay late, has cumbersome billing procedures, and so they have no incentive to do so. It should be noted that many of the specialists on Guam (i.e., orthopedics, neurologist adult cardiologist, ENT, nephrologist, ophthalmologist, surgeons) do continue to care for uninsured, MIP, and Medicaid patients in need of their specialty care, realizing that these patients have nowhere else to go. In fact, many of these providers offer reduced rates to the uninsured, self pay patients. With most private providers unwilling to accept MIP, Medicaid, and uninsured patients, particularly those who cannot make payment upfront, thousands of indigent patients literally have nowhere to turn to for their primary health care needs. Thus, Guam's medically underserved population urgently need better access to comprehensive primary medical care. The Northern Region Community Health Center, Southern Region Community Health Center, and the Guam Memorial Hospital are the "safety-net" providers for the medically underserved population. In fact, the CHCs are the sole source providers in the northern and southern areas of the island and GMHA ER has become an urgent care center for poor people as their options for medical care are limited.

Other than the shortage of providers, there are gaps in tertiary care services, inpatient care services, and off-island referral services. Although Health Services of the Pacific is the only JACHO accredited facility providing home health care and hospice care on Guam, there is no tertiary care facility on island as in the U.S. so this gap exists. In addition, gaps in the provision of comprehensive care for patients requiring hospitalization occur even though GMHA has 7 FTE hospitalists (3 full-time OB/GYNs of which 2 also work part-time at the CHCs, 1 FTE pediatrician, and 3 FTE internists). Although the hiring of these hospitalists has helped to bridge the gap to some extent, it is not enough, thus private physicians take rotating "house calls" to ensure appropriate coverage 24/7 for

J-017-067

Thank you for your comment. As noted in the SIAS, the public service impact methodology was intended to ensure that stated impacts are just those due to the proposed action, not pre-existing problems or deficits, or natural population increase. However, the existence of deficits for individual agencies is noted where applicable, and the impact analysis will also note the larger picture of deficits and challenges affecting GovGuam overall.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-068

Thank you for your comment. Our data will be reviewed and updated as necessary.

J-017-069

Thank you for your comment. Our data will be updated as necessary.

J-017-070

Thank you for your comment. Analysis of potential increase in chronic diseases is beyond the scope of issues analyzed in the EIS. A chronic disease is one lasting 3 months or more, by the definition of the U.S. National Center for Health Statistics. Four modifiable health risk behaviors 1) lack of physical activity, 2) poor nutrition, 3) tobacco use, and 4) excessive alcohol consumption are responsible for much of the illness, suffering, and early death related to chronic diseases. Chronic

***** *

6

admissions. The lack of specialists and the limited number of full-time hospitalists also means physicians on "house-call" sometimes spend long hours in the hospital, away from their clinics, caring for intensively ill patients until they are transferred to a regional tertiary care center on the U.S. mainland or the Philippines. Since Guam's referral hospitals in Hawaii, California, and the Philippines are several hours away by commercial jet, transfers are not made quickly due to extensive coordination that is needed for medical evacuation and the uncertainty about the acceptance of the medically underserved patients by these institutions. Off-island hospitals may not necessarily accept MIP and Medicaid patients due to delays in payment by these government insurance plans, which is often the main source of funding for the off-island health care cost of these patients.

Other than the physician shortage, the island lacks dentists largely due to licensure "turf" battles and salary constraints. Guam's licensure laws requires dentists already licensed in the U.S. to retake a comprehensive dental board exam, which costs \$2,500 and the dentist must pass this written exam along with a practicum exam in order to be licensed on Guam. The difficulty in recruiting dentists to work at the CHCs is also attributed to a very low salary offered by the Guam Department of Public Health and Social Services, Guam CHCs.

Additionally, the draft EIS Section 18.2.1.3 Issues Identified during Public Scoping Process (Page 18-12), which states: "As part of the analysis, concerns related to public health and safety that were mentioned by the public, including regulatory stakeholders, during the public scoping meetings were addressed. These include: potential increases in diseases including: AIDS, cholera, dengue, Hepatitis C, Malaria, Rubella, Tuberculosis, Typhoid fever, STDs other than AIDS, potential increases in mental illness, potential increases in traffic incidents, and potential contact with UXO." There is no mention of the potential increase of any chronic diseases (i.e., diabetes, hypertension, cancer, etc) which are very prevalent not only in Guam, but throughout the U.S.

Chronic diseases including diabetes and cardiovascular diseases are increasingly common on Guam as lifestyles have become westernized and sedentary; and the overindulgence of food being an integral part of cultural practices further predisposes people to such diseases. Over the past decade, type II diabetes has become an increasingly serious problem on Guam and continuously prevails as one of the top 5 leading causes of death, accounting for a mortality rate of 27.3 per 100,000 population, although this rate is a significant underestimate of the actual data since many deaths are attributed to complications of diabetes such as heart disease, rather than diabetes itself. Hospital admission rate for long-term diabetes complication is also another health indicator, which reveals diabetes as an ongoing health problem. In 2008, Guam Memorial Hospital Authority (GMHA) reported Guam's diabetes long-term complication hospital admission rate of 512 per 100,000 population (512 hospital admissions for diabetes per 100,000 population). Clearly these hospital admissions reveal that patients are not controlling their diabetes, which leads to long-term complications, the most prominent being end stage renal disease (ESRD) as evidenced by the 5 renal dialysis centers in business on such a small island. Thus, these diabetes indicators clearly show that additional

diseases tend to become more common with age. The leading chronic diseases in developed countries include arthritis, cardiovascular disease such as heart attacks and stroke, cancer such as breast or colon cancer, diabetes, epilepsy and seizures, obesity, and oral health problems. Each of these conditions typically plague older adults in the United States and other developed nations.

J-017-071

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other federal programs and funding sources that could benefit the people of Guam.

J-017-072

Thank you for your comment. Our data was checked and updated as necessary.

J-017-073

Thank you for your comment. As documented in this EIS, the DoD acknowledges the existing sub-standard conditions of health care services on Guam and the interest to have DoD fund improvements to these services. DoD's ability to fund these services is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, the DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

Volume 2, Chapter 18 identifies less than significant impacts to public

interventions need to be implemented such as blood glucose monitoring, hemoglobin A1 c testing, behavioral modification/healthy lifestyle practices, and adherence to medication regimen to prevent long-term complications associated with diabetes.

Other than diabetes, cardiovascular disease is the most prominent health problem on Guam. Diseases of the Heart accounts for a mortality rate of 196.7 per 100,000 population, making it the leading cause of death on Guam. Health markers associated with the development of cardiovascular disease include smoking, obesity, sedentary lifestyle, and high blood pressure. On Guam, 27% of adults are smokers, 21% smoke daily, 34% are overweight, 27% are obese, and 26% do not participate in any physical activity (2008 Behavioral Risk Factor Surveillance Survey). According to data from GMHA, in 2008, Guam's hospital admission rate for hypertension was 543 per 100,000 population (543 hospital admissions for hypertension per 100,000 population).

Furthermore, the draft EIS (page 18-16) states: "According to the impact analysis in Chapter 16, significant adverse impacts would occur to public service agencies influenced by the population increases. These impacts would be mitigated by assisting Gov Guam in funding for health services personnel." This statement is quite broad and does not specifically identify whether or not the Guam Community Health Centers are included in the funding for health services personnel as well as the amount of funding that would be needed for the Guam Community Health Centers. Obviously, it is crucial that the Guam Community Health Centers be included as one of the Gov Guam agencies for such funding because when construction workers arrive as a result of the military build-up, they may not necessarily have an identified source of health insurance coverage for care, and those without coverage would further strain Guam's existing health care resources, particularly the Guam Community Health Centers and Guam Memorial Hospital. Additionally, Southern Region Community Health Center is currently undergoing a physical expansion. The lack of adequate physical space for a primary health clinic hinders the efficiency of clinic flow, which results in a lengthy patient waiting time and ultimately inaccessibility to primary health care services. For instance, Southern Region Community Health Center's current physical floor design is not conducive for a primary health care clinic operation so it needs to be expanded to meet the growing demand for primary care services. Expanding SRCHC by adding19,638 sq. ft. of space to the existing facility (from 14,989 to 34,627 sq. ft) includes doubling the exam rooms from 6 to 12 (3 rooms per clinician). Additionally, redesigning the patient flow positively impacts service delivery and optimizes provider productivity resulting in thousands of additional medical visits. Moreover, investing in an electronic health record system can improve the efficiency of patient flow, which lessens the patient waiting time, thus allowing more patients to access primary health care services. With more patients accessing primary care services, there would be an increase in the number of medical visits. Thus, funding for additional medical capacity is needed so that the CHCs can hire more providers, nurses, nurse aides, and support staff who would be housed at the newly expanded and renovated SRCHC.

> Opile Veriges - Derbrey MPH LINDA UNPINGCO-DENORCEA, M.P.H.

health and safety as a result of potential shortfalls in public health care services. Volume 2, Chapter 16 discusses the impact of an increased patient to health care provider ratio as a result of population growth with implementation of the buildup. The impact analysis in Chapter 16 identifies significant adverse impacts to public service agencies influenced by population increases. These impacts would be mitigated by assisting GovGuam in funding for health services personnel. Possible measures discusses that the DoD could take to support increased staffing of required positions include seeking federal funding for necessary positions; increasing the number of private staffing and service contractors currently working for service agencies; and supporting a one-time hiring bonus of 20% of base pay for GovGuam agency positions, to increase interest in GovGuam agency employment. These measures could aid in increasing the number of health care professionals on Guam. The EIS does not identify specific health services or funding sources.

GOVERNMENT OF GUAM



DEPARTMENT OF PUBLIC HEALTH & SOCIAL SERVICES (DIPATTAMENTON SALUT PUPBLEKO YAN SETBISION SUSIAT) # 123 Chalan Kareta Mangilao, Guam 96913-6304



J. Peter Roberto, ACSW

DIRECTOR

Felix P. Camacho GOVERNOR

Michael W. Cruz, M.D. LIEUTENANT GOVERNOR

February 16, 2010

JGPO c/o NAVFAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134 Attention: GPMO

REF: Submission of Health & Social Services Sub-Committee (HSS) Comments on the Draft Economic Impact Statement

Hafa Adai! Submitted herewith are the Health & Social Services Sub-Committee comments on the Draft Economic Impact Statement.

Should you have any questions regarding the attached documents, please feel free to contact Ms. Bertha Taijeron, Program Coordinator III at 735-7125 or via email at bertha.taijeron@dphss.guam.gov

Respectfully,

Director, DPHSS

Enclosures

xc: Paul. Shintaku, Director, GBO
Office of the Governor
Tel. No.: (671) 735-7102 Fax: (671) 734-5910

Guam and CNMI Military Relocation DEIS/OEIS

department of

See American Acres

Fcix: 671-647-0250

FELIX PEREZ CAMACHO

MICHAEL W. CRUZ, M.D. Lieutenant Governor ELISABETH T. CRUZ JASON S. TEDTAOTAO, MPA

Deputy Director

790 Gov. Carlos G. Camarha Tonnuning, Guenn 96913 Phone: 671-647-5325

MENTAL HE SUBSTANCE heritanumen Sawa

February 12, 2010

Via: Email

Mr. J. Peter Roberto Chairman SUBCOMMITTEE OF HEALTH AND **HUMAN SERVICES** Office of the Governor Adelup, Guam

Subject:

DMHSA's response to the Draft Environmental Impact Statement (DEIS)

Hafa Adai Mr. Roberto,

Transmitted herewith is the Department of Mental Health and Substance Abuse (DMHS) comments on the Draft Environmental Impact Statement (DEIS).

If you have any comments or questions to the attached response, please call Mr. Frank Reyes 647-5309 or Dr. Andrea Leitheiser 647-5348 at the Department of Mental Health and Substance

Respectfully,

Elisabeth T. Cruz, Esq.

Acting Director

Department of Mental Health and Substance Abuse

tp://mail.google.com/a/dphss.guam.gov/?ui=2&ik=40ca147ecd&view=att&th=126c17a328983054&atti... 2/16/2010

DEIS REVIEW COMMENTS SHEET

No.	roi c	hpt Pg	Line, Tbl Fig	Commenter (last name)	Comment Agency/Org
J-017-074				DMHSA	Military have drug and alcohol and child issues. Department has been providing military with care. They don't bill TRICARE because they don't have the capacity. They are in the process of forming an MOU with the military to share staff and training. When active duty are deployed - difficult to keep treatment consistent.
1	9	4 5	3 line 2-e		Solution/Recommendation: (see rewrite by Dr. Leithelser)
				DMHSA	H28 - see a lot of substance abuse in this population - it is very stressful, intensive work - a lot of H2 companies would rather send a migrant worker home then pay for their mental health care. Thus, this means the worker will hide any problems form their employer. These people come to the attention of DMHSA through courts, because they are
1	9	4 5	3 line 2-f		arrested. Solution/Recommendation
1	9	4 4-12	26		
J-017-075	9	2 2,3	2.1.1.4		Based on multiple interviews with construction contractors familiar with Guam projects, it is expected that a large population of H-2B workers will originate from the Philippines. Furthermore, since two thirds of Guam's foreign-born population is from the Philippines, it is expected that most "stay-behind" workers and related future population growth would originate from there. Solution/Recommendation: The impact of the "stay-behind" workers will bring additional dependents to Guam. Future depandents needing services

Guam and CNMI Military Relocation DEIS/OEIS

J-017-074

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-075

Thank you for your comment. Public comments on the DEIS are an important part of the decision-making process. This information becomes part of the FEIS and is evaluated when DoD prepares the FEIS and issues a Record of Decision at the end of the NEPA process.

Your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

DEIS REVIEW COMMENTS SHEET

No.	Vol	Chpt Pg	Line, Tbl, Agency	Comment Agency/Org
J-017-07	Τ,	4 124-127	DMHSA	Increase in use/abuse of substances (drugs & alcohol) during the construction and operational phases will occur.
	ľ	4 22.4 22.7		Recommendations: The military will need to provide services in assessments and treatment for military & DoD contract personnel and their dependents.
2	9	2/4 2-1/4-61	DMHSA	Increased impact in psychiatric care during the construction and operational phases will occur.
				<u>Recommendations</u> : The military will need to provide psychiatric care services (adults and children) in the area of mental health for military & Dob contract personnel and their dependents. This means that they would have to recruit the necessary professionals to accommodate for this needed service. The need to maintain one's psychiatric care through psychotropic medications will be the responsibility of the treating physician and/or treatment facility. Support services and staffing (nurses and psychiatric technicians) to be provided as required
3	9	4 4-127	DMHSA	Increase in the utilization of children and adult residential programs and foster care programs during the construction and operational phases will occur. Recommendations: The military will need to provide accommodations for placement into residential programs (adults and children) on-base or provide funding to access any existing community resources
4	9	4 125-127	DMHSA	Increase in population with Criminal Sexual Conduct (CSC) increases the likelihood of services provided through Healing Hearts during the construction and operational phases will occur. <u>Recommendations</u> : The military will need to create services for victims of sexual assualt perpetrated by military servicemembers, DoD contract /dvillan employees and their dependents.
		App D	DMHSA	Summary/Topics recorded in DEIS has been updated by the DMHSA DEIS working group.
5	9 /	App F 53-54		Recommendation: See current summary/topics provided at attachment.
		App D of App F 61-64	DMHSA	The Guam ADRC (Aging & Disability Resource Center Program) and its GuamGetCare system have transferred from the DISID to the DMHSA in July 2009. The meeting summary/topics discussed and written in the DEIS were those gathered during the DISID interview conducted by TEC, Inc. on February 10, 2009.
	"	1PPT 01-04		Recommendation: Transfer and add the interview Summary/Topics of the Guam ADRC and the Guam Get Care system to the DMHSA Summary/Topics on pages 53 & 54, Appendix D of Appendix F, Volume 9. Current description is at tatchment.

Guam and CNMI Military Relocation DEIS/OEIS

J-017-076

Thank you for your comment. The Final EIS has been updated (Volume 2) to better address impacts on social services.

The DoD plans to have several medical clinics in Guam and a new replacement Naval hospital would provide health services to the military personnel, their dependents, and military beneficiaries. Additionally, it is anticipated H2B workers as well as on-island workers will have health plans and private clinics will provide medical services.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

ATTACHMENT TO ITEM 6 OF DEIS COMMENT SHEET

DEIS/SIAS Guam Interviews

Appendix D of Appendix F, Socioeconomics Impact Assessment Study

DEIS recorded the interview at DISID: February 10, 2009, 10:00 AM

Updated and changed to DMHSA: DMHSA awarded a grant in September 2009 for expansion and enhancement of the Guam ADRC.

DMHSA Working Group (January, February 2010)

Meeting Summary/Topics

- 6. Guam Aging and Disability Resource Center Program and the GuamGetCare System
 - i. Web-based system comprehensive directory of services
 - Aging and Disability Resource Center program (initial federal funding for ADRC 2005 ended September 2009). Received a Person-Centered Planning (PCP) Implementation grant in 2007, which is sustaining the ADRC through 2010. DMHSA applied for and was awarded the ADRC 2009 grant, for grant period: September 30, 2009 through September 29, 2012.
 - Hits on the GuamGetCare system are recorded current average count on hits is 30,000 per month.
 - iv. People from off-island are currently accessing the system to find out if there are services on Guam. Program staff continue to populate the resource directory with all the services available on island – intent is to use the system to its full potential to become a 211 system (like 411 system). With a 211 system, people can call to find out what services are available – handy especially during times of disaster.
 - GuamGetCare also allows for agencies to share forms, e.g., referrals, applications, etc.
 - DISID was created by Guam P.L. 24-16 to be a single point of entry to streamline access to services for people with disabilities. GuamGetCare fulfils this concept.
 - vii. GuamGetCare also has Care Tools for use by professionals case managers can share notes between staff, etc. (with user ID and password protection).
 - viii. Users continue to enter data agencies can now generate reliable data.
 - ix. Go to guamgetcare.org and see all the links:
 - Assess Your Needs
 - · Help for Caregivers
 - · Learn About Care Options
 - · Search for Services

- Key Resources
- Application Forms
- Calendar
- · Report a Problem
- I Need Help
- · Start a Health Profile

Soon to have: PATH (Planning Alternative Tomorrows with Hope) Online

- x. Have MOU with GovGuam agencies such as the Division of Senior Citizens (DSC) – their consumers are also in the system – staff are using the system to track referrals, case management, plus home delivered meals and transportation services. Subgrantees of DSC such as Catholic Social Service and GGARP/SPIMA also utilize the system.
- Other agencies use the system but do not contribute to maintenance/funding. DMHSA in collaboration with DISID does the work – apply for grants for sustainability.
- xii. Consultant is contracted through approval from the AG Office.
- xiii. Guam will create consumer ID cards that streamline access/service delivery (the existing ADRC information system supports wireless barcode scanning). This will allow real-time data collection when staff do not have access to a computer (e.g., during a transportation route). Having this real-time data will give case managers and family caregivers the opportunity to identify service gaps and arrange interventions in a more timely manner.
- xiv. Improving Discharge Planning: ADRC staff will work with discharge planners at the Guam Memorial Hospital Authority (GMHA) to help make consumers aware of community-based long-term care options.
- xv. How GuamGetCare addresses the Amended Permanent Injunction:
 - · Inventory of existing community services and space available;
 - Cross-agency case management to make receiving care in the community a possibility;
 - Ideally, expanded discharge-planning tools that will empower consumers to be aware of all the services available in the community as well as institutional options; and
 - Person-centered planning model, which allows consumers to articulate their desires and personal goals for their future.

J-017-077

Thank you for your comment.

ATTACHMENT TO ITEM 5 OF DEIS COMMENT SHEET

Department of Mental Health and Substance Abuse

Interview (February 6, 2009, 2:00 pm) Attendees:

Attendee Name	Title/Organization
Amber Guillory	Environmental Planner, TEC Inc
Dr. David Shimizu	Director, DMHSA
Dr. Andrea M.S. Leitheiser	Clinical Admin./Psychologist/DMHSA
Mr. Simeon Palomo	Planner III/DMHSA

DMHSA Working Group (January, February, 2010) Attendees:

Attendee Name	Title/Organization
Elisabeth T. Cruz, Esq.	Acting Director, DMHSA
Francisco Reyes	ADRC Project Manager, DMHSA
Dr. Andrea M.S. Leitheiser	Clinical Admin./Psychologist/DMHSA
Reina Sanchez	Community Supp. Serv. Sup., DMHSA
Leah Rassier	Program Coord. II, DMHSA
Evelyn Manibusan	Social Worker III, DMHSA

Meeting Summaries/Working Group Priorities

<u>Purpose:</u> To provide documentation on the impact the military buildup will bring on the services provided through the Department of Mental Health and Substance Abuse (DMHSA).

- Goals: 1. To identify 10 concerns relative to the buildup in relation to the DEIS,
 - 2. Report military pertinent concerns, and
 - 3. Provide information on DMHSA Service Delivery System.

Overall Objectives

Objective 1: Increase in population will impact the vital resources provided through DMHSA Objective 2: Accessibility to resources in the community will be limited with the appearance of a competitive edge to those connected to the military buildup.

J-017-077

Goal 1 Report: Ten Concerns Relative to Buildup in Relation to DEIS

<u>Task 1: Impact on Clinical (Behavioral)Services and the Federal Amended</u> <u>Permanent Injunction(API)</u>

Draft (November, 2009; February, 2010)

- Interface in relation to potential receiver and expectations of receiver in relation to military build up and API to include JCAHO accreditation
- Increase in these services will see the need to increase the professionals who are the front line in the provision of service delivery
- Increase in these services will bring about an overall need to identify an increase in programs and services
- Utilization of clinical services will need to be re-evaluated in proposing how additional work will be managed with current staffing
- Utilization of clinical services will need to provide funding for the hiring of professionals to work with individuals
- Data collection, analysis, and dissemination issues in relation to utilization and outcome rates

J-017-078

Task 2: Impact on Psychiatric and Behavioral Psychological Care

- Increase in the utilization of Psychiatrist and Clinical Psychologists to deal with overall mental health wellbeing of the community, along with the increase in military personnel
- Increase in the hours needed by local and government Psychiatrists and Clinical Psychologists to deal with the issues related to the overall mental health wellbeing of the community, along with the increase in military personnel
- Increase in the expectations by local and government psychiatrists and clinical
 psychologists to treat individuals with symptomatic psychiatric illness in ruling
 out the disorder
- Increase in the jurisdiction of symptomatic psychiatric illness placed on the local and government psychiatrists and clinical psychologists in continued treatment of military personnel in these settings

Task 3: Impact on Medication Clinic

- Increase in population seeking services through medication clinic in providing for available psychotropic medications through DMHSA
- · Increase in the utilization of clinic hours for additional consumers
- Increase in population will directly affect the need to increase the number of
 psychiatrist available in meeting the demands of the additional consumers
- Increase in the funding needed to provide for available psychotropic medications through DMHSA

Task 4: Impact on Children's Services

- Increase in the need to provide additional services in specialized areas in childhood illnesses
- Increase in the need to provide community activities for specialized childhood illnesses

2

Guam and CNMI Military Relocation DEIS/OEIS

J-017-078

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

Draft (November, 2009; February, 2010)

J-017-079

- Increase in the need of professionals (psychiatrists, psychologists and physicians) to address the treatment of childhood illnesses
- Increase in the need for DMHSA to develop programs directly related to the areas
 of services needed for children and adolescents

Task 5: Impact on Residential Services for Children

- Increase in population may warrant the need to currently identify various levels of care to proposed levels of care for future services delivery
- Increase in population identifies the need to provide adequate treatment for those individuals needing residential services
- Increase in population of troubled youth may warrant the need to identify additional correctional facilities and residential homes
- Increase in the utilization of Children's Inpatient Unit prior to a step-down to residential services for children

Task 6: Impact on Residential Services for Adults

- Increase in population may warrant the need to identify various levels of care currently to proposed levels of care for future services delivery
- Increase in population of adults with mental illnesses and or mental retardation seeking residential services for their family member
- Increase in the population of mental illness disorders identifies the need to provide additional inpatient facilities
- Increase in the utilization on Adult Inpatient Unit prior to a step-down to residential services for adults

Task 7: Impact on Nursing Services

- Increase in the population will need to see an increase in professionals in the nursing field in all areas of treatment
- Increase in utilization of nursing services will increase the need to provide additional funding to assist in the hiring of both Registered Nurses (RN) and Licensed Practical Nurse (LPN)
- Increase in utilization of the Inpatient Units of DMHSA will increase the need for not only nurses for the units but that of psychiatric technicians to assist in the daily operations of a unit
- Increase in the utilization of inpatient services will increase the current cost per person receiving services through the inpatient units

Task 8: Impact on Healing Hearts (Rape Crisis Center)

 Increase in population with Criminal Sexual Conduct (CSC) increases the likelihood of services provided through Healing Hearts

3

Guam and CNMI Military Relocation DEIS/OEIS

J-017-079

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

Draft (November, 2009; February, 2010)

J-017-080

- Increase in the utilization of Healing Hearts services increase the need to provide professionals specializing in the treatment of individuals who have been raped
- Increase in the utilization of Healing Hearts services increases the need to hire professionals to address the sensitive issue in relation to the occurrence as being time-sensitive

Task 9: Impact on Substance Abuse

- Increase in the use of substances (drugs and/or alcohol) with military personnel
 who are out on liberty, along with identified individuals providing services
 through the construction phase with no access to military services. The nonmilitary individuals who do not have military coverage
- Increase in the need to provide substance (drugs and/or alcohol) assessments and treatment for military personnel
- Increase in the need to provide substance (drugs and/or alcohol) group meetings in the community to maintain military personnel and their sobriety

Task 10: Impact on Individual Staff

- Increase in the additional workload places a strain on limited resources currently available
- · Increase in the need for specialized services for children and adolescents
- Increase in the need for specialized services for adults with Mental Illness and/or Mental Retardation
- Complexity and increased work demands will impact quality of service delivery.

Goal 2 Report: Pertinent Military Concerns

J-017-081

Availability of Data and Utilization Rates

DMHSA is requesting the current utilization rates of the proposed military population. Military health care capacity and utilization rates have never been released and this is necessary to make operational projections for future fiscal years. The current service population at DMHSA as noted by the Records Department is 14,000 cases with 1,400 cases being seen on a monthly basis in an active capacity. As reported in earlier civilian military task force meetings the DMHSA branches and divisions estimate that approximately two of every ten consumers (20%) who receive services are military related to include: active duty members, active reservists, inactive reservists, veterans, retirees, spouse, dependent, or divorced dependents with military healthcare benefits. It is reported that Guam has the highest rate of enlistment per capita for both active duty and reserves (joint recruiting services, Guam, 2009. Military related consumers may also receive services with those professionals contracted in the private sector. However, several professionals have reported they are currently at capacity or unable to service complex mental health cases due to competing time constraints or liability issues.

.

Guam and CNMI Military Relocation DEIS/OEIS

J-017-080

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-081

Thank you for your comment. Expanded mitigation discussion is available in the FEIS.

Draft (November, 2009; February, 2010)

DMHSA provides the only inpatient hospitalization facility for psychiatric illness in the West Pacific and has been utilized free of charge by the military for the past thirty years. In addition DMHSA provides supportive crisis services to after hours emergency cases forwarded by the military. These cases are subsequently referred back to their primary providers upon stabilization or review. DMHSA does not bill TRICARE or the VA for these services as a fee schedule is still being developed. DMHSA does not track military related services formally as we do not have an electronic system to track data and have to use our limited resources to track by hand, information currently required for service delivery funding (i.e. Compact Impact and Block Grant relevant data). An electronic health information system which tracks consumer information is currently in progress of development for implementation at DMHSA.

J-017-082

Service Population Issues

DMHSA services the entire local population and does not deny access to services to anyone. Currently, there is a waitlist for outpatient, residential, and children services. People with insurance typically go to private practice. However, DMHSA does see many insured individuals due to the lack of available services in the community and the prohibitive co-pay costs for many consumers.

Given that DMHSA is the only inpatient facility for psychiatric care in the West Pacific the Navy relies on our acute care services. If an active duty military member has needs that are more long term however, the individual is usually sent off island. This is not the case for other populations who are not active duty as they remain on island and depend on local providers to include DMHSA for ongoing treatment.

The Veteran Administration on Guam struggles with an aging veteran population who has increasing needs for both mental health and residential care. DMHSA provides support to the VA for these patient considerations. In addition to this population is service member dependents who also require services in the local community.

Military populations to include H2B workers have substance abuse issues. Given the high rates of substance abuse in those populations who currently come to Guam and have acculturation and adjustment issues, it is believed that incoming H2B workers and military personnel will also experience stressors which encourage the usage of substances. Abuse of substances often times lead to work and social related difficulties that DMHSA has traditionally responded to. H2 companies would rather send a migrant worker home than pay for their mental health care. Thus, this means the worker will hide any problems from their employer. These individuals come to the attention of DMHSA via the court system after being arrested.

Funding Direct Costs

In an effort to augment local and federal funding for patient services delivery, DMHSA is creating a fee schedule with the support of our Legislative Oversight and the Governor's Office. DMHSA will require additional funding and personnel to meet both

5

Guam and CNMI Military Relocation DEIS/OEIS

J-017-082

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

Draft (November, 2009; February, 2010)

the increasing needs of the local community, amended permanent injunction, and military build up.

Infrastructure, operational, and medication costs also continue to rise. First generation: recent and third later trials-sometimes newer drugs can impact patients poorly. First generation is usually very expensive because of the research and development costs. DMHSA maintains its own internal dispensary and also has a purchase order with private pharmacies that dispense. In an effort to decrease costs and decrease the likelihood of metabolic syndrome, DMHSA has encouraged the prescribing of third generation medications which are less expensive and have less incidents of metabolic syndrome. This has proven difficult. Currently, medication costs are approximately three million dollars annually.

Special Considerations

Mental health services have traditionally been underutilized in the military because of the concern such care may pose on rank promotions and selection for special assignments. Similar to the civilian community, military continues to struggle with the stigma related to mental health services. Civilian dependents also have voiced preferences at times to seek care from civilian providers who they believe will be less likely to sympathize with the active duty spouse. These are issues that must also be considered.

J-017-083

Military members have different confidentiality rights and reporting requirements are also different for active duty and reserve personnel. This must also be considered when executing MOUs and other agreements between DMHSA and military facilities. It will be helpful to develop cross-cultural training for military in conjunction with their commands. This may reduce the number of conflicts that may occur and subsequent escalation of such conflicts.

Staffing Concerns

Military populations benefit from professionals familiar and trained to address their mental health needs. Staff would benefit from additional training in this area. Recruiting and maintaining professional staff continues to be a challenge on Guam and many areas of the mainland United States. Currently, headhunters, networking with professional groups, and print advertisements are utilized to recruit professionals. It is hoped that with the military increase that other professional personnel will also accompany them and be willing to work in the local community to assist in the servicing of our populations.

Goal 3 Report: DMHSA Service Delivery System

About DMHSA

Emotional crises occur in the lives of most people everyday. Individuals and families may face serious, chronic mental disorders that require long-term care. Support and treatment services are available at the Department of Mental Health and Substance Abuse. DMHSA promotes physical, mental and spiritual well-being by providing comprehensive mental health and substance abuse prevention and treatment programs

6

Guam and CNMI Military Relocation DEIS/OEIS

J-017-083

Thank you for your comments.

that are culturally sensitive and consumer driver. All services are confidential and are administered via four primary divisions: Nursing Services Division with Professional Support Unit, Clinical Services Division, and Children and Adolescent Services Division.

Nursing Services Division and Professional Support Unit: Skilled nurses and psychiatric technicians provide inpatient care to adults and children with acute mental health symptoms and also to those with more chronic behavioral issues. Additionally, nursing services are provided to those living in the community through the Medication Clinic and an outreach team. Psychiatrists fall under the Professional Support Unit. These licensed professionals provide diagnostic, evaluation, treatment and consultation to consumers participating in the various services offered in the department. Weekly to monthly psychiatric visits as well as medication evaluation, prescriptions, and monitoring are included as part of the service. In addition to this, the licensed professionals provide consultation and training to the DMHSA staff to ensure the best course of care and treatment for our consumers.

Healing Hearts Crisis Center. This center specializes in the treatment of sexual assault victims and their families. Sexual assault is a traumatic experience for an adult or child and calls for a very supportive and empathic response in order to begin healing. Our Healing Hearts Program begins with an Intake assessment that often leads to a medical-legal examination in a safe, caring environment. The program staff coordinates all cooperation with other agencies, counseling and follow-up health care, so the victim can begin healing with being overwhelmed.

Clinical Services Division: The core mission of the Clinical Services Division is to provide behavioral health services to the people of Guam. In addition, the federal amended permanent injunction focuses primarily on the tremendous need for the provision of such services. It is the primary goal of the Clinical Services Division to increase the number of consumers served, implement new programming, and train those employed to render said services and to be in compliance with the amended permanent injunction.

The Clinical Services Division is comprised of six (6) services which include: Adult Counseling Services Branch, Medical Records Services Branch, Drug and Alcohol Services Branch (New Beginnings), Community Support Services Branch, and the Prevention and Training Branch (Prevention and Early Intervention Advisory Committee Empowerment PEACE). The missions of the branches are as follows:

Adult Counseling Services Branch. Crisis Hotline Services. Licensed Doctoral and Master Level clinicians comprise this branch to include Licensed Clinical Psychologists allocated to meet the needs of the Amended Permanent Injunction. Adult Counseling Services provides therapeutic, continuing and new patient evaluation services at DMHSA. Adult Counseling Services Branch serves as the first diagnostic point of entry for mental health consumers. Crisis support services for those individuals contemplating ending their life and other serious crisis also make contact via the crisis

hotline services. Psychological screening tests and tools are utilized for diagnostic and treatment planning purposes.

Medical Records Services Branch. As the Health Information Management Center's Record Custodian, Health Insurance Portability and Accountability Act (HIPAA) Compliance Officer, Forms Committee Chairperson, Policy and Procedure Committee Member and Quality Assurance Accreditation Committee co-Chairperson to the strictest confidentiality laws of this nation, we are tasked to engage in providing support to all clinicians, consumers, operational and administrative professionals for the department. In addition, collaborate with local and federal governmental entities such as the criminal justice system, healthcare providers, U.S. Personnel, Social Security Administration and others. The health record is the legal business record for our organization. As such, it must be maintained in a manner that follows applicable regulations, accreditation standards, professional practice standards and ethical legal standards of all 16,000 + consumers registered with DMHSA.

<u>Drug and Alcohol Services Branch (New Beginnings).</u> To provide, develop, and/or support (via contract) Alcohol and Drug Treatment Services in a therapeutic and community-based settings for individuals and families, and most especially women and adolescents, affected by substance misuse, abuse or dependence. Services may include but are not limited to education, brief/early intervention, outpatient, intensive-outpatient, aftercare or continued care, day treatment, social detoxification, and residential.

Community Support Services Branch. The Community Support Branch provides case management services for the DMHSA consumer population. In addition to case management services they also participate in community outreach treatment teams which target those consumers at risk for medication non-compliance and for whom community support is necessary to ensure their living in the least restrictive means possible. These services prove invaluable as recidivism is greatly reduced to the acute inpatient units to DMHSA and the frequency of consumer mental status deterioration is diminished.

Prevention and Training Branch (Prevention and Early Intervention Advisory Committee Empowerment PEACE). The Prevention & Training Branch staff provides technical assistance, training and resources to policy makers, program managers, community coalitions (faith and school-based), and public and private sector leaders in an effort to empower community-based program leaders to effectively reduce the incidence and prevalence of alcohol, tobacco and other drug-related problems, and to promote overall health and wellness. This Branch adopted the public health model of prevention that recognizes that prevention is a lifelong process and attempts to reduce both the supply of and the demand for alcohol, tobacco and other drugs. Prevention programs and services involve the use of six strategies: 1) Information Dissemination, 2) Education, 3) Alternatives, 4) Problem Identification and Referral, 5) Community-Based Process, and 6) Environmental and Social Policies.

Adult Residential Support Services: Adult Residential Services offer a spectrum of residential care in community-based settings for adults with serious mental illnesses. An initial assessment is done by licensed professionals to determine the best level of care that will benefit the consumer prior to placement in the residential setting. Once in the residential setting the consumer is provided with an array of services that include activities of daily living and enhancing coping skills and promoting independence and self-sufficiency.

<u>Day Treatment Services.</u> The department promotes and enhances the psychosocial, economic and physical well-being of each adult consumer with serious mental illnesses enrolled with the program and who require monitoring and supervision in the a therapeutic setting. Therapeutic and skill building group sessions, community outings, job fairs and presentations are some of the activities and events.

Child & Adolescent Services Division: Child, Adolescent and Family Services also known as I Famagu'on-ta (Our Children) are provided by a group of dedicated and caring professionals and support staff working together as a TEAM with the child, youth and family. The services are provided through the Systems of Care philosophy and are child centered, family driven, strength-solution based, least restrictive, community based and culturally competent. The Wraparound process involving the consumer, family, natural supports and other service providers (agencies public and private) is how services are determined, implemented and delivered. Some of the services available are: Intake assessment, Individual and Family Counseling, Psychiatric Services and Medication Management, Intensive Care Coordination also known as Wraparound, Day treatment Professional known as Rays of Hope (ROH), Therapeutic Group Home (TGH), Transition to Independence Program (TIP), Parent Training, Information and Support (PTIS).



Victim Advocates Reaching Out

P.O. Box 2045 Hagatna, Guam 96932 Hotline: 671-477-5552 Fax: 477-8276 Email: varopres@yahoo.com

Providing volunteer support services for victims of violent crime and traumatic events since 1982.

2/16/2010

SUBJECT:

DEIS - COMMENTS

Status:

Nonprofit - Crisis Intervention/Advocacy - Human Services

VARO (Victims Advocates Reaching Out) was not given the opportunity for the interview process. As first responders we have noticed an increase in cases in the past month over prior months. There is fear that the cases will continue to rise with the population increase.

VARO is a nonprofit volunteer base organization that began in 1982. VARO provides **24/7** intervention/advocacy services to victims of violent crimes and traumatic events. We are first responders' status in the community. VARO services civilian and military and **ALL** victims of violent crimes and traumatic events. All VARO services are **FREE & CONFIDENTIAL.** Our Victim services include Intervention/Advocacy, emergency shelter, food, clothing, transportation, court accompaniment, Pro Se, legal assistance, counseling, and many other services. When an individual is victimized a domino effect goes into play with VARO and throughout the community.

J-017-084

Although there were many important issues that have been addressed by the community, our largest concern is the forthcoming increase in victim services. As with most nonprofit organizations, funding is always a challenge. Using examples of several "recent" cases we responded to:

 Military family – Domestic Violence with children. The family lived in civilian soil thus; the military insisted that the case was in our jurisdiction.

In cases like these, VARO responds immediately, the victim and/or children become a priority for VARO and the community. Safety, Shelter, clothing and all victim services, social services, legal etc. will we executed in order to keep the victim/s safe and sound. To assist the victims appropriately it will require a number of services and resources, funding, workers, GPD, legal services, Office of the Attorney General, Shelters. VARO provided services for this victim.

Solution:

· DOD should avail funding or assistance for military families

Guam and CNMI Military Relocation DEIS/OEIS

J-017-084

Thank you for your comment. The Final EIS has been updated (Volume 2) to better address impacts on social services.

Although mental health and substance abuse assistance is available within the DoD health system it is probable that some military personnel and their dependents perceive more anonymity when they seek help with these social disorders outside the DoD health system.

While military personnel and some of their dependents will contribute to Guam's revenues (through taxes, user fees, licenses, etc.), this added revenue may not be provided on a timely basis, or may be insufficient to offset all of the needed social services created by the proposed action. DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-017-085

- Collaborations should be mandated between Military and Service providers and/Government of Guam.
- Training should be required for both Service providers and Military to ensure quality of services to victims of crime.
- 2) Victim is civilian, several perpetrators with (high-profile) military status Case of sexual assault; the crime was committed in civilian soil. In this case, there were communication barriers between Government of Guam and Military Law Enforcement and other respective agencies and service providers. The end result led to nowhere, the victim suffered re-victimization numerous times. The case remains unresolved. A Good Samaritan purchased a ticket for the victim providing a return home to family. Still, no arrests have been made. VARO provided services for this victim.

Solution: Government of Guam, Civilian service providers should work collaboratively with Military in every aspect of victim services to ensure perpetrators are held accountable for their crimes.

J-017-086

3) Based on local statistics and VARO caseloads, there have also been random crimes occurring in civilian grounds. Nightclubs and bars are the breeding grounds for violence; alcohol only intensifies even the tiniest conflicts. Random fights and several homicides have transpired at the bar scenes this past year.

J-017-087

Prejudice and territorialism is the error of mankind in any part of the world demographically, to change that mindset it take education, awareness and in some cases, training for both civilian and military communities.

The military should increase military police and security in areas of high risks/prone to attract violent crimes and not wait to ban military after a tragedy or incident occurs as done in the past. We must prevent these crimes from happening

By: Vangie Cabacar Executive Director

J-017-085

Thank you for your comment. Your mitigation recommendations have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-017-086

Thank you for your comment. Issues of public safety have been highlighted during the public comment period. Additional information, as available, has been provided in the FEIS. Expanded mitigation discussion is also provided.

J-017-087

Thank you for your comment. There are many reasons why the Marines (about half) are being moved from Okinawa. This discussion is provided in section 3.5.2 of the Socioeconomic Impact Assessment Study (SIAS) that is in Appendix F, Volume 9 of the Draft EIS. Serious crimes by military personnel in Okinawa are committed at a lower rate than the overall civilian population in Okinawa, despite reports to the contrary. Many serious crimes are based on singular incidents that are reported multiple times so that it appears to be multiple incidents.

The impacts of crimes on Guam are discussed in Volume 2 of the FEIS. As noted in the SIAS: "A critical distinction when analyzing crime impacts is between the total numbers of crimes ("volume of crime") and the actual crime rate (numbers divided by population). Population increases always bring with them increases in the volume of crime, but the crime rate would increase only if new populations are disproportionately likely to commit crimes."

The DoD acknowledges that any increase in population, such as the one that these proposed actions would cause, may be accompanied by a proportionate increase in crime and social disorder. The DoD also acknowledges that widely publicized instances of military crime in

Catholic Charities of the Archdiocese of Agana dba Catholic Social Service (CSS) is a faith-based 501 (c) 3 non-profit organization serving persons with disabilities, the homeless, victims of family violence, and persons needing emergency food and clothing. The following are services provided: Elderly

- Case Management Services.
- A day care for the frail elderly and another day care for those specifically suffering from dementia.
- · An emergency receiving home for abused elderly and adults with disabilities.
- · In-home Services for homebound frail elderly.
- Elderly Housing (10 units).

Persons with Disabilities

- · Respite Care Services for caregivers.
- Group Homes.
- Community Habilitation and Day Center.
- · Permanent Supportive Housing for Persons with Disabilities (8 units).
- · Group home for those with severe mental disabilities.

Homeless

- Emergency Homeless Shelter.
- Transitional Housing (30 units).

Homeless Prevention

- That provides funding for needy family with rent and utility payment arrears.
 Service for Victims of Family Violence
 - · Emergency Shelter.
 - Five (5) Transitional Housing.
 - Shelter for abused children.

Food Bank and Thrift Shop

Catastrophic Illness Assistance Program

 A donation driven program that provides minimal assistance to individuals leaving or referred for off-island medical treatment.

Migration and Trafficking Program

- Program that is funded on a per diem reimbursement basis from USCCB and CCUSA to assist refugees relocate with in Guam.
- · Program to assist trafficking victims with shelter and supportive services.

Housing Counseling Program

The additional needed to address the social services impact of the military build up are as follows:

- Open up another homeless shelter.
- Open up also another shelter for women victims of family violence.
- Purchase or build apartments to serve as transitional housing for homeless individuals and families.
- · Build the capacity of the present food pantry.
- Transportation to assist families' access services.

1

Guam and CNMI Military Relocation DEIS/OEIS

Okinawa cause Guam residents to be concerned about possible repercussions on the island brought about by the increase in military population on Guam. The increase in population during the construction phase of the build up is recognized as a time for concern for increases in incidents of crime. Moreover, it is also acknowledged that the age group of many military personnel is often characterized as prone to conflicts and misbehavior. DoD educates its service men and woman on good behavior and will act promptly and rigorously to curtail any misconduct and enforce laws to protect the citizens of Guam and our military personnel.

- Fund the Housing Counseling program that would help families learn budgeting skills that would help them pay for their rent and other needs.
- Homeless prevention program.
- · Family Counseling services.
- Child care assistance.
- · Micro enterprise program.
- Another Adult Day Care program will have to be developed doubling the current capacity.
- · Assistance to help the needy procure their medications.
- Truck to pick up donation.
- Storage to store the increase in food supply for the food pantry.
- Human Trafficking Victims Services.



Felix P. Camacho Governor

Michael W. Cruz, M.D. Lt. Governor

Department of Agriculture Dipåttamenton Agrikottura

163 Dairy Road, Mangilao, Guam 96913

Director's Office Agricultural Dev. Services Animal Health Aquatic & Wildlife Resources Forestry & Soil Resources Plant Nursery Plant Protection & Quarantine 734-3942/43; Fax 734-6569 734-3946/47; Fax 734-8096 734-3940 735-3955/56; Fax 734-6570 735-3949/50; Fax 734-0111 734-3949

472-1651; 475-1426 Fax 477-9487



Joseph D. Torres Director

Joaquin N. Naputi Deputy Director

February 17, 2010

Joint Guam Program Office JGPO c/o NAVFAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134

Attention: GPMO

Subject: Draft Environmental Impact Statement/Overseas Environmental Impact Statement for Guam and CNMI Military Relocation: Relocating Marines from Okinawa, Visiting Aircraft Berthing and Army Air and Missile **Defense Task Force**

The Draft Environmental Impact Statement/Overseas Environmental Impact Statement for Guam and CNMI Military Relocation: Relocating Marines from Okinawa, Visiting Aircraft Berthing and Army Air and Missile Defense Task Force (DEIS) was written in accordance with the requirements set-forth by National Environment Policy Act (NEPA), Council on Environmental Quality regulations, and 32 CFR Part 989 (as amended). The DEIS evaluated the impacts for relocating U.S. Marine Corps forces to Guam, constructing visiting Aircraft Carrier berthing facilities at Naval Base Guam, and establishing a U.S. Army Air and Missile Defense Task Force on Guam. The DEIS also identified possible actions to mitigate or lessen the impacts.

The three main components of the proposed actions are briefly stated as follows:

- 1. Marine Corps. (a) Develop and construct facilities and infrastructure to support approximately 8,600 Marines and their 9,000 relocated from Okinawa to Guam. (b) Develop and construct facilities and infrastructure to support training and operations on Guam and Tinian for relocated Marines.
- 2. Navy. Construct a new deep-draft wharf with shore-side infrastructure improvements creating the capability in Apra Harbor, Guam to support a transient nuclear powered aircraft carrier.

Page 2 of 8

 Army. (a) Develop facilities and infrastructure on Guam to support relocating approximately 600 military personnel and their 900 dependents to establish and operate an Army AMDTF.

Guam residents and the Guam Department of Agriculture (GDoA) were given a deadline of February 17, 2010 to comment. GDoA's response to the DEIS includes broad overarching comments in letter format, as well as an attached matrix of detailed comments that indicate specifically where the DEIS document fails to meet adequate levels of analysis to determine the full impacts of the action(s). The GDoA submits the following comments in response to the DEIS.

J-018-001

NEPA process and proposed implementation too fast for Guam to properly prepare GDoA has major concerns with the DEIS NEPA process and the schedule of implementation. The proposed actions within the DEIS are scheduled to commence in 2011. Overall the DEIS is an extremely large document that is extremely difficult to digest. To provide input on all the components of the proposed actions within the DEIS is even more challenging. The time allotted to provide comment, in spite of the extension (45-days), is not sufficient; the 30-day for review of the FEIS is also problematic. 40 CFR Section 1501.8 Time Limits (b) states that the agency may consider the following factors in determining time limits such as size of the proposed action, number of persons and agencies affected, degree to which relevant information is known and if not known the time required for obtaining it, and degree to which the action is controversial. These factors appear to have not been taken into account when considering the time limit for the entire NEPA process for the Guam and CNMI Military Relocation. Furthermore, 40 CFR Section 1506.10 Timing of agency action (d) states that the lead agency may extend prescribed periods. GDoA is requesting that the a 90 day review period be given for the FEIS instead of the usual 30 day review period.

J-018-002

Supplemental DEIS necessary to address inadequate analysis and missing information. The DEIS does not objectively evaluate the full range of direct, indirect, and cumulative effects of the preferred alternative, and of the reasonable alternatives; or, include effects of climate change and rising sea levels within analysis. Studies appear to be selectively chosen to justify decisions already made. Full and fair discussion of the significant impacts was not provided. The DEIS does not provide adequate discussion on the reasons for eliminating alternatives. GDoA's attached matrix of specific comments provides multiple examples. Of particular note is that the DEIS continually fails to identify impacts to Mariana fruit bats within the analysis of impacts from actions; fruit bat recovery is of paramount importance to the people and culture of Guam.

The DEIS did not provide adequate information for GDoA to compare and contrast the environmental effects of the alternatives. There was significant information that was not included in the DEIS. Examples of such information include, but are not limited to, the Micronesia Biosecurity Plan, Noise Abatement Plan, Partulid Translocation Plan, Ungulate Management Plan, an adequate in situ benthic assessment to include coral size frequencies, information on coral communities below 60 ft. depth, lack of information and misinformation regarding environmental consequences, discussion on the possible

Guam and CNMI Military Relocation DEIS/OEIS

J-018-001

Thank you for your comment. The DoD carefully considered all requests to extend the length of the comment period beyond the 45-day minimum required by NEPA. In evaluating multiple options, DoD leadership determined that a 90-day comment period best balanced the need for sufficient time to review a complex document with the requirement to reach a timely decision regarding the proposed military buildup on Guam.

J-018-002

Thank you for your comment. The information that is mentioned is included in this EIS. The EIS addresses the proposed action of the military relocation, alternatives, impacts and mitigation measures to reduce any adverse effects.

conflicts between the proposed action and the objectives of local policies, and a sea turtle assessment. The missing information is relevant to environmental concerns and impacts, thus, DoD must provide a supplemental to the DEIS that includes the additional information, studies and analysis not completed prior to the development of the DEIS.

J-018-003

Adjust actions to reduce impacts

Due to the reasons stated above and the enormous impact the proposed actions will have on Guam's natural resources, and the ability to recover native species, GDoA is staunch in its position that the "No Action Alternative" is the preferred action(s) for all components of the proposed action. However, GDoA is cognizant that Department of Defense (DoD) is focused on meeting the needs of the mission. Thus, the FEIS and/or supplemental to the DEIS must identify and consider new alternatives to meet mission requirements that would significantly reduce the impacts to Guam's natural resources. These new alternatives may include the upgrade of current assets, creating multi-level living quarters, and/or moving actions to developed areas. The document reflects that the placement of activities and structures are focused on convenience and comfort when a small detour could reduce impacts to the native forest and the ability to recover native species. For example, the Army AMDTF Weapons Emplacement Preferred Alternative includes the NWF Area 50, and the northern part of "old housing". These sites and those of the other alternatives impact native habitat.

J-018-004

Cumulative impacts not analyzed adequately

According to NEPA, the cumulative effects of the action(s) must be analyzed within the DEIS. The cumulative effects of DoD actions on Guam for terrestrial and marine combined have not been adequately analyzed in the DEIS. The DEIS does take into account actions recently approved or in review (as listed Volume 7, p. 4-5 thru 4-12). However, the DEIS does not include analysis of impacts due to all previous activities, as well as those in the foreseeable future. DoD has been the stewards of 28% of Guam's land and natural resources for over 50 years, yet the document only refers to the most recent DoD projects. For example, the direct loss of habitat through clearing and, the disturbance buffers surrounding areas of military activity, have greatly fragmented the limestone forest in northern Guam. The recovery of Guam's native and endangered avifauna depends on the availability of limestone forest for species recovery. The FEIS must include analysis of how much limestone forest is necessary for the recovery of species and whether the proposed actions will nullify over 30 years of efforts to preserve and protect efforts to restore Guarn's native avifauna since the military's introduction of the brown treesnake (Boiga irregularis) following WWII. The direct actions of the military's actions on DoD property, in addition to the development outside base property due to the military buildup, will most likely impact too much of northern Guam to allow for the recovery of Guam's native species. GDoA is unsure that any amount of mitigation will provide replacement value or restore ecological function.

J-018-005

Furthermore, the cumulative impacts from the loss of coral reef habitat through dredging and construction activities and military training are not adequately analyzed. The original Adotgan Point Ammunition Wharf dredging (Kilo Wharf) as well as other projects that occurred before 2005 needs to be included within the cumulative impact

J-018-003

Thank you for your comment. The EIS addresses the proposed actions, alternatives, impacts and mitigation measures to reduce any adverse impacts.

J-018-004

Thank you for your comment. The EIS evaluates cumulative impacts only in the recent past per federal requirements. Impacts to Federally listed species and the necessary habitat for their recovery are currently being evaluated by the U.S. Fish and Wildlife Service. Our analysis of recovery habitat for the kingfisher is as follows:

The Final Revised Recovery Plan for the Guam Micronesian Kingfisher (2008) requires at least 2 subpopulations (with at least one each in northern and southern Guam) of at least 1,000 adults each to remove the species from the Federal list of endangered and threatened species (page 43). The Recovery Plan identifies the average territory size as 10 hectares (page 10). The Recovery Plan addresses the potential for stochastic events such as storms and disease outbreaks and states "at least two subpopulations should be established on Guam to prevent extinction and support recovery (page 58)." This results in an island-wide total of 10,000 hectares of kingfisher recovery habitat needed to support the kingfisher.

U.S. Fish and Wildlife Service has estimated that Guam has a total of 11,491 ha of kingfisher recovery habitat remaining; the military build-up will directly impact 629 ha of recovery habitat.

Once the direct impacts from the build-up are subtracted, the remaining recovery habitat on Guam would total 10,862 ha, which is still within the recovery habitat threshold.

We have provided our cumulative effects analysis which is based on the information presented in Volume 7, Chapter 4 of the Draft EIS and

Page 4 of 8

DEIS Guam and CNMI Military Relocation

J-018-006

analysis. The cumulative impact analysis should include the impacts of all projects as a whole and not individually as within the DEIS. The supplemental DEIS or FEIS needs to include tables depicting 1) the cumulative number of potential acres to be impacted for terrestrial and marine for the preferred alternatives, and of the reasonable alternatives for the Guam and CNMI Military Relocation; and, 2) the cumulative number of acres to be impacted or has been impacted for terrestrial and marine for all past, present, and future projects.

J-018-007

Micronesia Biosecurity Plan is incomplete and unfunded

The Micronesia Biosecurity Plan (MBP) is referred to consistently in the DEIS as a means of reducing the risk of invasive species spreading to and from Guam, as well as throughout the region. The MBP must be fully developed and 100 percent funded in order to minimize and reduce the risk of brown treesnakes and other invasive species spreading throughout the region. The MBP must include measures to eradicate invasive species already in Guam and Tinian. Invasive species already present in Guam and Tinian will continue to threaten the region.

The FEIS and ROD must adequately address the funding of MBP as most of the jurisdictions within Micronesia do not have the assets to improve biosecurity procedures. As mentioned in 40 CFR Section 1505.3, agencies may provide for monitoring to assure their decisions are carried out and should do so in important cases. The MBP is an important case. Without a fully funded MBP and 100% brown treesnake interdiction program in place, the risk to the region from the proposed actions is too immense.

J-018-008

Unescorted access for GDAWR to recover native species and save DoD resources

The DoA's Division of Aquatic and Wildlife Resources (GDAWR) must be given unaccompanied access to the compensatory mitigation sites to implement recovery actions. The supplemental DEIS or FEIS should include language that dictates unescorted access for GDAWR staff to DoD property to complete their mission of monitoring and restoring Guam's natural resources. This statement in the FEIS is necessary to insure that the local DoD Commands recognize GDAWR as a partner in the recovery of Guam's species. Current access policies limit GDAWR staff's ability to assist DoD in the effort to preserve and protect Guam's natural resources while pursuing the mission of national defense. Recent BRAC activities have increasingly reduced the ability of GDAWR to complete monitoring activities that have been in existence for over 30 years. The DoD Environmental personnel need to focus their efforts on completing compensatory mitigative measures and previous commitments with permits approved by the U.S. Army Corps of Engineers pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344) and Biological Opinions developed with the U.S. Fish and Wildlife Service, rather than replacing or replicating GDAWR's survey efforts on DoD lands. This is a waste of DoD funds that could be used to complete necessary mitigative measures when there are other agencies funded to complete monitoring activities.

Section 1704 (a) of the Organic Act of Guam states that "Except as otherwise provided by law, the government of the Virgin Islands, Guam, and America Samoa, shall have concurrent civil and criminal jurisdiction with the United States with regard to property

represents future State, tribal, local or private actions that are reasonably certain to occur in the action area.

J-018-005

Thank you for your comments. The document has been reviewed and modified as appropriate based upon your comments. Volume 7 in the EIS includes a cumulative impact analysis appropriate for the anticipated growth and additive effects on the nearshore environment.

J-018-006

Thank you for your comment. Due to the complexity of the project, there are two parts of the cumulative impact analysis: the summary of impacts for all components of the proposed action (Volume 7 Chapter 3) and an assessment of the additive impacts of the proposed action in combination with other past, present and reasonably foreseeable projects (Volume 7, Chapter 4). A systematic methodology was applied in both analyses.

Volume 7, Chapter 3 summarizes the combined potential impacts of all of the preferred alternatives on Guam and Tinian. The impacts of Volumes 2 through 6 are discussed by resource. At the end of Volume 7, Chapter 3.3 there is a table summarizing the combined impacts of all long-term (operational) components of the preferred alternatives. Significant impacts are identified. Trends in the resource health on Guam and Tinian since World War II are described. This section includes limited quantitative data for proposed action impacts. For example, special-status species habitat loss due to the proposed action and current amount of habitat available island wide is presented in Volume 7, Section 3.3. There is no quantitative island-wide data readily available for most of the resource areas assessed and the impact analysis is often qualitative.

Volume 7, Chapter 4, Cumulative Impacts, assesses the potential

owned, reserved, or controlled by the United States in the Virgin Islands, Guam, and America Samoa respectively." DoD should abide by the above section to ensure mitigation is in fact assisting the natural resources to recover and work in partnership with local resource agencies rather than excluding them from access to DoD property.

J-018-009

Impacts to Overlay Refuge habitat for the recovery of Guam's native species

Over 1,286 acres of habitat in the Refuge Overlay will be cleared by the proposed actions in the DEIS (see Volume 7, p. 3-29). The impact of these actions is most likely to jeopardize the recovery of Guam's federal and locally listed endangered species. The impact of clearing native limestone forests, and other habitats appropriate for the release of endangered species including the Mariana crow (Corvus kubaryi), Guam Micronesian Kingfisher (Halcyon c. cinnamomina), and Guam rail (Gallirallus owstoni) federally and locally listed) is extremely large. The FEIS should discuss how the loss of these habitats will be minimized by adjusting alternative actions to avoid forested areas, as well as mitigated by preserving other areas for recovery, funding recovery actions and ensuring GDoA is involved in the monitoring and recovery of endangered species. To the largest extent possible, the removal of large native forest tree species should be avoided. The proposed actions will have significant impact that may, is likely to adversely affect federally listed species.

J-018-010

Add special emphasis on repatriation of endangered species on Guam military lands

Current DoD/Navy policy dictates that the repatriation of endangered species (ES) on military lands demands the signature of a high level of command (possibly the Assistant Secretary). Thus, the local Navy Environmental staff is adverse to any projects that involve repatriation of ES and do not facilitate local or Federal agency ES recovery efforts on DoD property. This effectively prevents any repatriation efforts on DOD lands and nullifies any commitment by DoD to mitigate for the proposed actions, and previous commitments. The impact of not allowing reintroduction of ES on DoD property is enormous when you consider the size of Guam, the percentage of land held in trust by DoD, as well as the quality and quantity of habitat reserved for ES recovery on military land. Without local intent and support of repatriation of ES on DoD land, DoD is in violation of the Endangered Species Act of 1973 without first considering the impacts on the species. The FEIS must include measures that will dictate the release on ES on DoD land and language must be included to allow GDAWR full participation in ES recovery programs on DoD lands.

J-018-011

Proposed actions impact commitment to conservation actions and recovery of species

The FEIS must address how DoD on Guam will allow recovery actions to continue in Naval Magazine Storage and Munitions Storage Area (Andersen AFB) in light of the expected increase in security with the proposed addition of ECMs.

Increase effort to control ungulate damage to native forest

DoD must continue or commence ungulate control via depredation-permitted programs in all its bases. DoD must incorporate methods such as snaring and trapping, rather than shotgun, for control of Philippine deer (Cervus mariannus) and feral pigs (Sus scrofu) in ES habitat. Installation of fencing would complement removal efforts by controlling

additive impact of the EIS proposed actions when combined with potential impacts of other past, present and reasonably foreseeable future actions. The period of consideration for the cumulative impact analysis is 2004 to 2019. The project list is based on best available information from DoD and the Guam Land Use Commission database. There is no National Environmental Policy Act (or similar) document disclosing project impacts for most of the cumulative projects listed; therefore, there is insufficient data on most cumulative projects listed to conduct a quantitative impact analysis. In Chapter 4 a table summarizes the potential cumulative impacts on Guam and another table summarizes the potential cumulative impacts on Tinian. Potential additive cumulative impacts are identified for a number of resources. Mitigation measures are proposed earlier in the EIS. The cumulative impacts analysis has been expanded in the FEIS, including the addition of climate change analysis and analysis of cumulative impacts to coral.

J-018-007

Thank you for your comment. The DoN is developing a Micronesia Biosecurity Plan (MBP) to address potential non-native invasive species impacts associated with this EIS as well as to provide a plan for a comprehensive regional approach. The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks. It is being developed in conjunction with experts within other Federal agencies including the National Invasive Species Council (NISC), U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS), the US. Geological Survey (USGS), and the Smithsonian Environmental Research Center (SERC). The plan is intended to be a comprehensive evaluation of risks in the region, including all Marine Corps and Navy actions on Guam and Tinian. The Navy will develop biosecurity measures to address non-native invasive species issues that will supplement existing practices. For additional information on the MBP and existing and interim measures for non-native invasive species

Page 6 of 8

ungulate movements and creating areas for eradication, as well as facilitating installation of multi-species barriers. Where appropriate hunting programs should make these resources available to resident hunters. These efforts must be in collaboration with, and in cooperation with GDoA's GDAWR.

J-018-012

GDoA prefers the No Action Alternative to dredging of Apra Harbor

Based on the reasons stated previously, such as the inadequate evaluation all reasonable and dismissed alternatives and insufficient analysis of the full range of direct, indirect, and cumulative effects resulting in an un-meaningful analysis to compare and contrast the environmental effects of the various alternatives, GDoA has no option but to choose the no action alternative to dredging of Apra Harbor for the Aircraft Carrier Berthing (Volume 4). According to the DEIS, twenty-five acres of coral habitat will be directly impacted (dredged) by the preferred action, while over 46 acres will be indirectly impacted totaling in over 71 acres impacted by the action. However, the acreage may be higher because an adequate resource assessment was not conducted to include biological communities below the 60 ft. depth and possible the biological community at the entrance of the Inner Apra Harbor Channel.

The DEIS provides incorrect information in regard to the dredging project, such as there are no shallow shoal patch reefs where dredging would occur (direct impact area) (Volume 4 Page 11-11) and hammerheads spawn outside Inner Apra Harbor Channel (Volume 4 Page 11-35). Shallow shoal reefs are located in the direct impact area and hammerheads do not spawn; they display an act called "pupping". Sea turtle surveys were not properly conducted resulting in an inadequate analysis of impacts to sea turtles. Incidental surveys were conducted by individuals with no sea turtle expertise while conducting benthic surveys resulting in an unsupported statement that sea turtles have not been observed foraging or resting within the proposed project area.

The DEIS states incorrect and conflicting information concerning the proposed waterfront functions action. Examples include statements about hammerhead spawning in Apra Harbor. Hammerheads do not spawn; they display an act called pupping The DEIS further states that finfishes are only represented by three families in the Inner Harbor. However, the Marine Biological Survey of Inner Apra Harbor (Smith et al. 2008) conducted by the University of Guam reported approximately 19 families of finfish. The end result is that the affected environment of Inner Apra Harbor is inadequately analyzed (Vol. 2 Chapter 11).

J-018-013

DEIS proposed actions conflict with local policies

Discussion on the possible conflicts between the proposed action and the objectives of local policies are not included within the DEIS. Title 5 Guam Code Annotated Section states that it shall be unlawful to remove live coral from that area surrounding the Island of Guam extending from the shore of the island outward to the ten fathom contour. A permit is needed from GDoA. However, there is no discussion about this issue. Neither of the two alternatives provided (Polaris or the Former SRF Site) are acceptable with the large amount of direct and indirect negative impacts to the Shoals that the action will cause. The no-action alternative would not jeopardize the conditions of these areas,

control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-018-008

Thank you for your comment. DoD will continue to work cooperatively on the referenced efforts.

J-018-009

Thank you for your comment. Impacts to Federally listed species and the necessary habitat for their recovery are currently being evaluated by the U.S. Fish and Wildlife Service. Their findings are being included in the FEIS. Refinement and additions to mitigation measures for these species that were proposed in the DEIS have also been updated in the FEIS. Large trees would not be removed unnecessarily. However, in many areas the development is intensive and all vegetation must be removed. The FEIS has been updated to note that a salvage and re-use plan for plants would be developed or required of contractors before clearing began.

J-018-010

Thank you for your comment. The Department of the Navy (DoN) is proposing conservation measures to support re-introduction of native endangered or threatened species on DoD lands on Guam consistent with species recovery plans. In further support of such recovery efforts, the DoN intends to actively participate in recovery committees for endangered or threatened species on Guam. When DoN and USFWS mutually agree the constraints to reintroduction of native threatened or endangered species on DoD lands on Guam have been minimized to a point that a feasible and successful re-introduction of the affected

contrary to the DEIS' position that the no-action would lead to a degradation of these habitat as a result of coral bleaching and other environmental perturbations (Vol. 7, p. 3-36).

J-018-014

The DoD should recognize the Sasa Bay Marine Preserve and the Pati Point Conservation Area, which Public Law 24-21 created as local marine preserves. Discussion on the possible conflicts between the proposed actions of the CVN dredging and waterfront functions and the objectives of marine preserves are not included within the DEIS. The DoD should formally set these areas as conservation areas.

Proposed mitigation/compensatory actions

J-018-015

- GDoA supports the use In Lieu Fee as the preferred mitigation and watershed restoration management as the alternative mitigation. GDoA does not support artificial reefs as an option for mitigation because it does not replace the lost ecosystem function.
- 2. The mitigation of any lost coral resources should include off-site mitigation similar to the Cetti Bay Mitigation for the Kilo Wharf dredging project. The Cetti Bay Mitigation provides recovery of coral reef function, by restoring upland forest habitat in adjacent areas. The establishment of artificial reefs and coral transplantation projects should not be considered as mitigative actions for coral destruction as they are not proven methods to restore coral ecology. Compensatory mitigation needs to include compensation for the aquatic resource functions that will be lost as a result of the permitted activity and not just the loss of corals only as stated in 40 CFR Section 230.93 General Compensatory Mitigation Requirements.
- 3. With the proposed actions and resulting population increase, Guam's Marine Preserve Areas will be under greater pressure and, as such, will need increased enforcement by conservation officers. DoD must mitigate for the increase of 80,000 people during the construction phase by providing funds to increase Guam's enforcement of aquatic and terrestrial resource laws and regulations. A contingent of 20 additional conservation officers will be needed to enforce local conservation aquatic and wildlife laws and regulations.

J-018-016

4. Forest habitat, whether primary, secondary or scrub, is critical to the recovery of Guam's native wildlife. Impacts to these habitats must be mitigated wherever possible, and any and all losses compensated. Tree species such, Intsia bijuga, Artocarpus marianensis, Ficus prolixa, Pisonia grandis, are not easily replaced and, function of the forest is not easily recovered. Timetables for construction and compensatory mitigation must be aligned to prevent proposed actions moving forward without compensation.

species is more probable than not, the DoN will work with the U.S. Fish and Wildlife Service to develop a re-introduction plan and supporting programmatic biological opinion that ensures such re-introduction efforts are consistent with the species recovery plans and the military mission on Guam. Constraints to successful re-introduction would include things such as controlling the brown tree snake and feral cat populations on Guam.

J-018-011

Thank you for your comment. The addition of ECMs at NMS and Andersen AFB is not expected to require a significantly higher level of security than currently exists. An ungulate management plan is currently under development by the Navy on Guam and is part of planned mitigation discussed in the DEIS. Additional information has been added to the FEIS on the Ungulate Management Plan and implementation.

J-018-012

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments. The DoD is committed to performing its mission in an environmentally responsible manner. Best management practices (BMPs) and potential mitigation measures will minimize the potential impacts of the proposed action. These BMPs and potential mitigation measures are described primarily in Volumes 2, 4, and 7.

Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and

DEIS Guam and CNMI Military Relocation

Page 8 of 8

Please see attached document for specific comments on the DEIS document, citing volume and page, relating to the above general concepts. Thank you for the opportunity to comment on the DEIS. GDoA looks forward to the opportunity to review supplemental documents, as well as the FEIS, that will address concerns regarding the DEIS. I may be contacted at 671-735-3962.

Sincerely,

JOSEPH D. TORRES

Directo

Attachments:

ce: USFWS Ecological Services, Honolulu

Guam Bureau of Statistics and Plans (BSP)

Guam Environmental Protection Agency (GEPA)

Guam Department of Recreation (DPR)

the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

The EIS correctly states that no direct dredging would take place at the shoal areas. Further, based on sediment transport modeling, indirect impacts from sedimentation would avoid the shallow shoal areas. The NOAA (2005) citation that referred to hammerhead spawning has been removed and replaced with BSP (2010) stating the "pupping event".

J-018-013

Thank you for your comment. The Navy will follow all appropriate laws and regulations while completing the proposed action on Navy-submerged lands within Apra Harbor. The Navy will continue to work with the USACE during the CWA permitting process. As stated in Volume 4, Chapter 11 of the EIS, no direct or indirect impacts are anticipated to occur within the Shoals area. Text has been revised as appropriate.

	G	DAWR C	omments	s to DEIS/OE	IS Guam and CNN	AI Military Relo	ocation	Page 1 of 135				
	Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010											
	#			Lo	cation		EIS/OEIS Statement	GDAWR's Comment				
	"	Volume	Page	Paragraph	Section	Commenter	E13/OE13 Statement	GDATTIC FEMALES				
	0											
J-018	-017	1	ES- 25	5	Airspace	GDAWR	Special Use Airspace (SUA) would consist of a proposed restricted area (R-7205) to accommodate hazards associated with Terminal High Altitude Area Defense (THAAD) radat operations; located along and off the northwest coast of Guam.	GDAWR conducts acrial surveys for sea turtles off the coast of Guarn. In addition, the cliff line on the northwest of Guarn is habitat of the protected Mariana fruit bat. The FEIS must identify impacts to monitoring programs				
							and fruit bats, as well as indicate DoD's	and fruit bats, as well as indicate DoD's commitment to consult with USFWS and				
J-018	-018	1,	ES-1	4	Introduction	GDAWR	(b) Develop and construct facilities and infrastructure on Guam to support training and operations on Guam and Tinian (CNMI) for the relocated Marines.	The FBIS would need to define the location and total amount of land impacted by the buildup in a spreadsheet and map.				
	3	1	ES-10		Overview	GDAWR	Alternative 2 - Preferred includes NCTS, Finegayan, South Finagayen, and land in FAA	This action includes 2580 ac. Or 1,044 ha, a large area of forest in the NCTS area, that will need to be included in the compensation for loss of ES habitat.				
	4	1.	ES-10	3	Alternative 2	GDAWR	Of the total Overlay Refuge (2.095 ac [848 ha] in the Finegayan area, this alternative would develop approx. 53% (1,106 ac [448 ha].	Action should not clear the Overlay Refuge habitat reserved for T&E species. GDAWR recommends main cantonnent site be moved to avoid Overlay Refuge parcels and impacts to ES recovery. All habitat loss must be quantified and compensated.				
	5	1	ES-15		Overview	GDAWR	Marine Corps Relocation - Reference to Vol- Tinian — Rifle Ranges are proposed in the FAA Mitigation Site	The FEIS, or a supplemental EIS, must identify how much land is being proposed for the Fireams ranges in the FAA mitigation side what is proposed for mitigation, and what impact would this have on the site? Why is Alternative 3 not considered, as it is not in the mitigation site.				

Thank you for your comment. These Marine Protected Areas are addressed in Chapter 11 of Volumes 2 and 4.

J-018-015

Thank you for your comment. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor will one be available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

J-018-016

Thank you for your comment. Proposed conservation actions in the DEIS to avoid and minimize for all impacts, including all vegetation removal, have been refined and additional measures added in the FEIS. Inclusion of timetables is not possible at this time but many are likely to be specified in the U.S. Fish and Wildlife Service Biological Opinion.

J-018-017

Thank you for your comment. The FEIS was updated to include a discussion of the requirement for coordination of the proposed SUA with the GDAWR in regards to the existing monitoring requirements off the coast of Guam. There would be continued commitment to consult with

	G	DAWR C	omment	s to DEIS/O	EIS Guam and CNM			Page 2 of 135
	GDAW	R-Commer	its 2-16-26	010	Dra		tent Response Matrix am and CNMI Military Relocation	
	#				ocation		EIS/OEIS Statement	GDAWR's Comment
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	- 019	1	ES-15	1	Training Range Complex Alternatives	GDAWR	There was an extensive screening analysis for firing ranges and non-firing training ranges that examined various geographic alternatives on Guam.	The FEIS should clarify why additional firing ranges are needed. There is not full consideration of alternatives for ranges. Actions should include the expansion of existing ranges and not include Pagat area due to the recreational value, historic resources and private property issues.
J-018	- 020	,	ES-15	1	Training range complex alternatives	GDAWR	Surface Danger Zones (SDZ) for firing ranges, located east of Guam, would extend over the ocean.	The east coast and forested areas are used for recreation (hikers, hunters, fishermen). Location of the firing ranges must be chosen where there will be less impact to local recreation.
	8	1	E\$-19	3	Alternative 1 (Polaris Point) (preferred)	GDAWR	A new Port Operations support building and various utility buildings would be constructed on a staging area at the wharf. There would be an area established for Morale, Welfare, and Recreation (MWR) activities and vehicle parking.	The DEIS does not indicate the amount of area to be developed for Morale, Weifare, and Recreation (MWR) activities and vehicle parking. The FEIS must quantify all habitat loss and compensate.
	9	1	ES-22		Overview	GDA WR	AMDTF - Alternative 1 the performed alternative indicated support facilities in NCTS	The FEIS must indicate where munitions will be stored to support the AMDTF and the impacts on adjacent or nearby mitigation sites -i.e. HMU. The FEIS needs to identify specifically how the access of researchers to the mitigation site will be facilitated. Current access is not adequate to complete recovery activities as committed to in Biological Opinion.

the USFWS and GDAWR for support of the monitoring program for the Mariana fruit bat.

J-018-018

Thank you for your comment. The items requested are provided in subsequent volumes of the EIS. Regarding the DoD preference for Alternative 1 over Alternative 3 on Tinian, Alt 3 is close to the airport and will cause some air space issues and the terrain requires huge amounts of earth movement. The Platoon Battle course cannot be used when the KD range and AFF range are being used. Alternative 3 makes access to the northern part of the island more difficult because it cuts the only paved access along 86th St.

J-018-019

Thank you for your comment. Training ranges are essential to support Marine Corps training requirements. DoD was required to determine whether military relocation requirements (including the establishment of training ranges) could be met by excess, underutilized or otherwise available property held by DoD on Guam. Early development plans attempted to keep all activities on existing DoD lands. However, as discussed in the FEIS (Volume 2, Chapter 2), after applying operational and environmental screening criteria, no contiguous DoD area on Guam was identified that could support all the land use and operational requirements of the action.

J-018-020

Thank you for your comment. Firing ranges have been sighted based on numerous constraints and all feasible alternatives have been evaluated. All areas of habitat loss have been included in the DEIS. Munitions locations for the AMDTF are shown in Volume 5 of the EIS. DoD is committed to providing access to researchers provided it does not

Page 3 of 135 GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 Volume Page Paragraph GDAWR's Comment EIS/OEIS Statement Commenter Munitions Storage Alternative (preferred) would The FEIS must clarify how locating J-018-021 munitions storage near HMU impact access Munitions Storage Area (MSA) 1 at AAFB. The to HMU. Will road access be closed when Munitions storage proposed magazines would be constructed at these alternative 1 two sites (requiring demolition) and at a third site ES-25 such as moving of munitions. GDAWR prefers that existing storage sites (between (preferred located east of the HMU across an unnamed roadway. The area of ground disturbance including a buffer (and excluding the existing munitions 4th 8th street BaD avenues) be used to avoid access issues to HMU mitigation site. storage facilities) is estimated 6.6 ac (2.7 ha). Alternative 2 site is located north of B Avenue at Alternative 2 will be the more appropriate alternative for this action. Access to HMU MSA 1: ground disturbance including a buffer is will not be disrupted. If Alternative 1 remains the preferred alternative, mitigation estimated 2.7 ac (1.1 ha). Alternative 3 site is Munitions Storage ES-25 2 and 3 located northeast of HMU and an unnamed road at to provide daily, unescorted access will need MSA1; ground disturbance including a buffer is to be developed and implemented. estimated 2.7 ac (1.1 ha). GDAWR Basic Alternative 1 (preferred) would consist of J-018-022 installing up to 22 new potable water supply wells The FEIS must indicate the impacts of the at AAFB, rehabilitating existing wells, and interconnecting with the GWA water system, and increased number of wells to Guam's water ES-29 Potable Water supply. Sea level rising must be included in associated water line transmission and distribution the analysis. systems There is a reference to the Power Generators at The FEIS must analyze the impacts a power 1-018-023 plant near the HMU would have on the Potts to support Facilities in the NCTS area. ES-29 Overview HMU, the surrounding forest and urban population in regards to noise and the discharge of emissions. Mitigation measures should be identified. The FEIS must identify the impacts activity GDAWR Alternative 3 -Long-term J-018-024 ES-29 Overview will have on the endangered moorhen that inhabit Fena Lake and identify avoidance and impact the military mission; DoD will work with the agencies on these access issues.

J-018-021

Thank you for your comment. It is anticipated that the gate to the HMU could be located such that it is not near the munitions storage area so that there would be no conflict with potential movement of munitions. In any case access should only be a scheduling issue. It is noted that in general access to DoD lands on Guam for monitoring or patrolling by GDAWR is a DoD Joint Region policy matter and not EIS-related. Alternative 1 is preferred considering mission requirements and potential impacts for all resource areas.

J-018-022

mitigation measures

Thank you for your comment. Interim Sustainable Yield Assessment: DoD agrees that protection of the sole source NGLA is imperative. The FEIS discussed the two available estimates of the NGLA that have been published, one by the Northern Guam Lens Study (NGLS) (CDM 1982) and one by Barrett Consulting with John Mink (Barrett 1992). The CDM 1982 study estimated the sustainable yield of the NGLA as 57.5 MDd. and the Barrett 1992 study estimated the sustainable yield as 80.5 MGd. University of Guam (UoG) Water and Environmental Research Institute (WERI) provided an expert technical review for DoD of the two sustainable yield estimates for the NGLA in 2009. The study concluded that the approach and methodology used in Barrett 1992 to estimate the sustainable yield are still valid and are appropriate for initial planning; and the Barrett 1992 sustainable-yield estimates should be used instead of the earlier 1982 sustainable-yield estimates because the later values are based on an additional decade of field data. Additionally, this expert communicated that the additional data that had been gathered from the NGLA since the 1992 study would not likely change the sustainable yield estimate for purposes of the FEIS because the data collected was from sub-basins of the aquifer that are not located where DoD proposes to

		DAWR C	Comment	s to DEIS/O	EIS Guam and CN			Page 4 of 135
	GDAW	R-Comme	nts 2-16-2	010	r		nent Response Matrix nam and CNMI Military Relocation	
	#				ocation		EIS/OEIS Statement	
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
-018-	025	'	ES-30		Overview	GDAWR	For Guam Roadway Network - 5 bridge replacements and 58 projects GRN.	The PEIS must identify the impacts to maring resources and area impacted by the GRN. Although no new area will be cleared, the additional pollutants dispersed along these roadways with increased traffic flow must be addressed. There are MFBA and endangeres species concerns, a policy should be outlined in the ROD requiring addressed.
-018-	026	1	ES-9		Overview	GDAWR	Total area needed would be 2500 acres (1.012 ha)	Correction: 1,100 hectares is needed for Mair Cantonment
J-018-	027	ı	1-14	4	1.2.5.2	GDAWR	Training Operations Covered by the Guam and CNM Mittary Relocation EIS/OEIS: Since the MIRC EIS/OEIS is covering DoD wide training on existing DoD land and training areas in the region, there will be overlap between the two EIS/OEISs in the area of land usage. As these two documents are being developed on similar schedules, they are being closely coordinated to ensure consistency.	The Draft EIS/OEIS will need to be aligned with ISR STRIKE BIS, as well as other EISs to ensure consistency and ensure that cumulative impacts are adequately addressed. The proposed actions within the MIRC and Relocation BIS/OEIS is in addition to the impacts/stresses to natural resources on Guam from the past 59 years of DoD land management.
-018	028	1	1-45		Table 1.11-1	GDAWR	Table 1.11-1. Documents to Be Incorporated by Reference.	Table 1.11-1 should include Refuge Overlay MOU, ISR STRIKE EIS, Kilo Wharf EIS, and other current projects in DOD lands, to align Military Relocation EIS.
-018	·029	1	2-11		2.2.3.1	GDAWR	Embarkation operations:a cargo staging and vehicle wash down area would be provided in proximity to but not adjacent to the wherf.	The distance between Victor Wharf and carg staging and vehicle wash down area must be minimized to avoid the spread of unwented species during transit. Biosecurity neessures must be fully funded and implemented.
	20	1	2-13	1	2.2.3.2	GDAWR	inydown area must also be remote from other operations because of the noise and spray associated with the LCAC's. This area is within a manmade fill area, requires no demolition, and is undeveloped (vacant) with no land use constraints.	The impact (noise and spray) associated with the LCAC's is a concern to GDAWR. The proposed area for the laydown and adjacent areas within Polaris Point must be surveyed for wildlife and invasives. Impacts from the LCAC laydown should be minimized.

withdrawal water. Therefore, the FEIS uses the Barrett 1992 sustainable yield estimate of approximately 80 million gallons per day. However, it is important to note that the estimated total average daily demand from the aquifer for all sources (DoD and non-DoD) during the peak construction year of 2015 is 50.33 MGd, which is below both sustainable yield estimates. Volume 6, Chapter 2, Section 2.2.4.1 and Chapter 3, Section 3.2.3.1 discuss this in detail. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the comanagement of the aquifer and development of a 3-D model, and will help guide decision-making during well installation. It is also important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information

G	DAW	R-Commen	ts 2-16-20	10				
	#	Volume	Page	Lo Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
-018-0	30 21	1	2-13	2	2.2.3.2	GDAWR	A new access road would be provided from Marine Corps Drive.	The DEIS does not illustrate access road from Marine Drive for the laydown area. Does the access road from Marine Copps Drive require olearing? What is the length of the access road? Is there an alternative route to avoid clearing? All elearing of habitat must be compensated.
	22	1	2- 14/15		2.2.4.1	GDAWR	The proposed alternatives for the location of the live firing range complex are on the east coast of Guam	The proposed location for the firing range is not a preferred alternative due to the regular recreational use of the area. It would likely be impossible to give enough access/time to recreational users to mitigate for restricted use. The FEIS must address impacts of projectiles (bullets, metal fragments) on labitat.
	23	1	2-15		~ 2.2.4.2	GDAWR	The access road alternatives are located outside NMS property and would require acquisition of a right of way extending 300 ft (91 m) from the road centerline. Alt. A: improve liking trail, require 50 ft (15 m) wide of vegetation clearing; Alt. B: so improvements on existing hiking trail and would be used by foot traffic.	The FEIS should provide justification for the preferred alternative. All clearing of habitat needs to be quantified and compensated for.
018-0	31	1	2-16		2.2.4.3	GDAWR	Biological: the amount of habitat disturbed should be minimized to avoid sensitive essential habitat for threatened and endangered species.	GDAWR agrees that disturbance should be minimized; all disturbance and clearing of habitat should be accounted for and compensated.
018-0	32	1	2-16		2.2.4.4	GDAWR	DEIS mentions planned FCLP on the north ramp of Andersen Air Force Base	The FEIS must indicate that FCLP's will be required to adhere to the 1000ft. Above Ground Level lift off from the FCLP. Also, Hels should be conducted in areas outside of T&B sensitive areas.

CDAMB Comments to DEIS/ORIS Guam and CNMI Military Relocation

Page 5 of 135

held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS.

Long-term Comprehensive Aquifer Study: DoD has already committed funds to conduct the NGLA 3-D model. During meetings with GWA in November 2009, GWA, GEPA and DoD jointly met with UoG-WERI to discuss the proposed USGS study and it was agreed that a working group of stakeholders would be established to guide the efforts to successfully manage the NGLA. This working group which includes, EPA, GEPA, GWA, DoD, UoG-WERI, and USGS is meeting in Guam in early March 2010 to allow the stakeholders to collaboratively shape the USGS study that DoD is funding. This meeting will allow stakeholders to provide their input into the development of a 3-dimentional model that will be created as a management tool to guide and shape the long term development, protection and continued operation of the aquifer as a critical resource. It is expected that the stakeholders will agree on parallel efforts to leverage available information to address military buildup related impacts to the NGLA for the FEIS while defining the parameters that will shape the creation of the 3-dimentional model that will establish baseline conditions of the aquifer to support long term decisions related to groundwater quantity and quality management. GWA has placed significant weight on the timely development of the 3-D model and through its involvement in the upcoming stakeholder meeting and the near monthly meetings with DoD has the ability to influence the development of the model to address its specific concerns and interests raised in its comments in the DEIS. Data gathered during the DoD well siting study will be used to continue to guide and steer the co-

		DAWR C	comment	s to DEIS/OE	IS Guam and CN			Page 6 of 135
	GDAV	R-Comme	nts 2-16-2	010	r	Comn Praft EIS/OEIS Gu	nent Response Matrix am and CNMI Military Relocation	
		7	-	Loc	cation			
	P	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	26	1	2-24		Overview 2.5.2	GDAWR	Bight new Earth Covered Magazines (ECMs) and Modular Storage Magazines (MSMs)	The FEIS must define the impacts of the new storage areas on the overall Explosive Safety Quantity Distance (ESQD). FEIS must also outline how GDA WR and other cooperators will have access in these areas. An agreement between DoD and GDA WR needs to be established that allows for GDA WR to conduct ES recovery work. DoD needs to conduct ES recovery work. DoD needs to conduct ES recovery work. DoD needs to conduct ES recovery work.
J-018	034	1	2-28		2.7.1.1	GDAWR	Construction Requirements - "POD plans to allow interested inlanders to harvest plants in areas to be cleared.	GDAWR is in favor of the intent to allow islanders access to harvest, however procedures must be in place to control the spread of invasive plants and animals, (i.e., Coconat Rhineceros Seete, etc.) The use of Lencenar for firewood should be ok. Ifit should be allowed for woodcarving and other pertinent uses.
J-018-	035 28	1	2-29		2.7.1.3	GDAWR	Tables 2.7-2; 2.7-3; 2.7-4; 2.7-5; and 2.7-6; Primary locations of Marine Corps Construction; Navy Construction; Army Construction; Utilities Construction; and Roadway Widening Project Construction	The locations given in the table are very broad. A map should accompany the table to identify locations identified in each table.
J-018	036 29	1	2-33		2.7.1.4	GDAWR	Table 2.7.7. Up to 15,816 workers will be needed for DOD related projects.	The FEIS must ideatify how DoD will mitigate for the impact of the foreign workers on the natural resources of the island, i.e., marine preserves, and other non-regulated coral reefs. For example, the installation of signs in a multiple languages, funding for increased inforcement of MP.

management of the aquifer and development of a 3-D model.

Aguifer Management Plan: In October 2009, fully comprehending the importance of protecting the sole source NGLA, DoD initiated an effort with GWA/CCU to co-manage the NGLA. In fact, co-management of the aguifer, and pursuit of a comprehensive 3-D model of the aguifer was a DoD recommendation, not one made by EPA, GWA or GEPA. This effort proposed that GWA and DoD, the two entities that rely on the NGLA as a major source of water would need to work as one to protect this critical resource. The proposal was to cooperatively assess the impacts of proposed developments, use the upcoming USGS study to guide efforts to manage the NGLA, and leverage DoD and GWA resources to cooperatively address potential impacts and propose alternatives to mitigate adverse impacts to the NGLA. Although this initiative to work together cooperatively has been advanced at subsequent meetings that created consensus on the way ahead, both GWA and EPA raised concerns with the DEIS knowing that many of the issues they raised are already being addressed. Additionally, EPA was invited to these meeting, but declined to attend unless DoD funded their participation. It is important to note that although GWA's comments stressed the need to involve UoG-WERI in the USGS study of the NGLA due to the body of information held at WERI; GWA, EPA and GEPA all questioned UoG-WERI's confirmation that the 1991 report "Groundwater in Northern Guam, Sustainable Yield and Groundwater Development" supports the adequacy of the NGLA to meet the water demand related to the military buildup. It is expected that the stakeholders will steer the USGS study to provide sufficient information to address the concerns about sustainable yield of the NGLA (at the sub-basin level) and provide that information to address the concerns raised in the review of the DEIS for inclusion in the FEIS.

Sea Level Rise: Volume 7 of the FEIS includes a general discussion of

	G	DAWR C	omment	s to DEIS/OEIS	S Guam and CN	MI Military Relo	cation	Fage 7 Of 155
	GDAW	R-Commen	ts 2-16-20	010	r		ent Response Matrix am and CNMI Military Relocation	
				Loca			EIS/OEIS Statement	GDAWR's Comment
	"	Volume	Page	Paragraph	Section	Commenter	- The Therman Control	
J-018	037 30	1	2-8		2.2.1	GDAWR	The majority of the proposed ACE Beddown Project Area sic is an inactive, previously disturbed area north of the existing Anderson AFB Airfield.	All habitat types are important for species recovery, particularly in morthern Guam. The FEUS must quantify all loss of habitat, including disturbed areas for compensation. Most (native and migratory) protected species on Guam rely on various habitat types, including 'disturbed' habitats.
J-018-	038	1	2-8		2.2.1	GDAWR	Air traffic would include belicopter, vertical lift aircraft, fixed wing, and unranned aircraft arrivals and departures. Air traffic rates are centingent on surge and operational requirements.	EIS will need to align with the MIRC EIS in regards to air traffic routes and rates. The FEIS must clarify how afriefd operations will mitigate for fruit bat disturbance. It is imperative that the only remaining fruit bat colony not be further disturbed by increase in activity.
J-018-	039 32	1.	2-8		2.2.1	GDAWR	There are bio-security searches of cargo and baggage.	All cargo, baggage, machinery and equipment will need to be inspected prior to departure and at arrival. FEIS will need to commit to 100% inspections to control the spread of invasives, including but not limited to BTS.
J-018-	0 40	1	2-8		2.2.1	GDAWR	This site would serve as the passenger terminal for Andersen AFB and temporary cargo storage.	Consultation with USFWS, USDA-WS, and RISC would need to be conducted for the construction and operations of the cargo storage facility in order to meet bio-security standards.

DANIE Comment to DEIS/ORIS Comment CNMI Military Relocation

impacts from global warming, including sea level rise and the effects on the aquifer.

J-018-023

Page 7 of 135

Thank you for your comment. I believe you are referring to one of the potential long-term alternatives to locate a new power plant at Potts Junction near the HMU. That alternative is only presented at the programmatic level. If it would be pursued, a new NEPA analysis and review would be required. That would take a much more detailed project specific analysis that would look at the items raised in your comment. That is outside the scope of this EIS.

J-018-024

Thank you for your comment. Long-term alternatives are not evaluated in the EIS. If implemented, additional NEPA will be conducted for these actions.

J-018-025

Thank you for your comment. Volume 6 Chapter 13 includes a list of projects and project types that may indirectly impact marine resource areas, as well as specific marine conservation areas (e.g. Sasa Bay Marine Preserve). Volume 6 Chapters 6 (Water Resources) and 12 (Terrestrial Biological Resources) discusses potential direct and indirect impacts to aquatic environments associated with GRN projects. These chapters discuss the potential for non-point source pollution inputs into target environments, and include mitigations and BMPs relevant to each chapter's resource areas.

J-018-026

Thank you for your comment.

		GDAWR C	omment	s to DEIS/OEI	S Guam and Cl	NMI Military Rel	ocation	Page 8 of 135
J-018		R-Commer	nts 2-16-2	010		Comm Draft EIS/OEIS Gu	nent Response Matrix am and CNMI Military Relocation	1-50-00-100
	#	T		Loca	ation		T	
	_	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
	34	1	2-9	1	22.1	GDAWR	Andersen AFB access improvements and the North Gate and Access Road proposed projects, would improve the traffic flow and physical security of vehicles entering and exiting the air base until it terminates at 5th Avenue.	Clearing of habitat may be avoided (as well as increased disturbence and habitat fragmentation) by developing as transportation plan for AAFB to improve traffic flow with the existing gates. A strategic suchedule for movers, construction trucks, delivery trucks, etc., should be implemented to reduce traffic and security issues. The FEIS must quantify all clearing of all habitat types and identify compensation.
J-018	042 35	1	3-17		3.5.1	GDAWR	The preferred alternative for the AMDTF Heisdgunters is the NCTS, with the MSA as the preferred storage of monitions in three non-contiguous areas near the HMU.	GDAWR does not agree with increasing munitions storage near the HMU as a preferred alternative. The increase in activity and security associated with locating near the HMU with hamper recovery efforts. The FBIS must indicate unescorted access to the HMU for GDAWR and other cooperators to complete species recovery activities within the HMU, as mandated under the Biological Opinion for ISR Strike,
	36	1	3-6		3.2.2	GDAWR	Of the total Overlay Refuge (2,095 ac [848 ha]) in the Finegayan area, this alternative would develop approximately 53% (1,106 ac [448 ha]).	In Alternatives 1&8, 29% of the development will occur on Overlay Refuge. In section 2.2.4.3 (page 2-16) the amount of habitat disturbed should be minimized Alternatives and actions should minimize disturbance and avoid overlay refuge.
	37	I	3-8		3.2.5	GDAWR	The preferred munitions storage area is the NMS for Earth Covered Munitions (ECMs)	GDAWR prefers this alternative because it would not alter the ESQD of the area and would avoid Andersen's MSA which would impact T&E species habitat.

Thank you for your comment. The cumulative impacts discussion has been updated between the Draft and Final EIS. The updated section is included in Volume 7 of the FEIS.

J-018-028

Thank you for your comments. As discussed in Section 1.11 of Volume 1, Table 1.11-1 identifies environmental documents that are being prepared while this EIS was being developed. The documents recommended for incorporation by reference are cited specifically in this EIS when applicable sections are incorporated.

J-018-029

Thank you for your comment. These issues have been addressed within the Final EIS. Information about these issues is primarily included in Volume 2 with an overall summary of impacts, best management practices and mitigation measures in Volume 7.

J-018-030

Thank you for your comment. All vegetation removal for construction of the ranges and access road is included in the EIS. It is the intent of DoD to maintain public access to the cultural and historic sites at Pagat and Marbo consistent with safety and operational requirements. Restricting access to certain DoD areas at certain times is required to maintain public safety. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

With respect to the access road for the NMS, DoD has re-evaluated the

Page 9 of 135 GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 GDAWR's Comment Location FIS/OFIS Statement Volume | Page Paragraph Commenter NCTS and South Finegayan. "Construction activities would displace wildlife from habitat in The habitat to be cleared is estimated at 174 J-018 043 acres. The FEIS must analyze where the animals within these acres will go and their the proposed project area. " impacts to the surrounding area (particularly 10 2.2.1 10-100 2 38 ungulates). Mitigation for impacts must be entified or increase compensation for additional acres of habitat degradation. Operation. Indirect impacts would occur from The estimate should be 7,040 pets because J-018-044 feral or unleashed animals. Housing is proposed military policy allows for up to two pets per family. The FEIS should address the full for up to 3,520 families. 10-103 10.2.2.1 potential impact, how it will be mitigated and now such actions will be funded. Heritiera longipetiolata - Cluster of 22 mature The known cluster of these listed trees should J-018-045 trees that were identified in 2000 ...located not be cleared. The FEIS should address how immediately to the south of the Alternative B KD these mature trees will be avoided in siting 10.2.2.1 10-117 2 the KD Range. The probability of success with transplanting is low. The change in status of the Mariana fruit bat from federally endangered to threatened does GDAWR Guam Mariana FruitBat and Little Mariana Fruit Bat Recovery Plan (USFWS 1990a) not reduce the protection level of the bat (and its habitat) or the importance of the fruit bat for Guam. Fruit bat surveys in the Marianas 10-12 Recovery Plans must be updated. The FEIS should have 41 2 current surveys of fruit bats in light of recent poaching incidents on Rota. Protection of Guam's remaining but should be a priority for DoD. Apra Harbor. Mariana moorhen. LCAC and The impact to Marianas moothen, migratory J-018-D46 AAV ramp construction is within approximately shorebirds, and other associated wetland birds one-half mile of the Atantano River designated a would be significant (from noise, oil spills, 10-123 10.2.2.3 secondary habitat for the Mariana common 42 etc.). The FEIS must clarify how the less significant evaluation of "secondary habitat was derived.

need for this road and determined that it is not required to meet operational requirements.

J-018-031

Thank you for your comment. All impacts have been evaluated and conservation measures proposed.

J-018-032

Thank you for your comment.

The FCLPs will be conducted at North Ramp and will involve standard takeoff and landing operations by jet aircraft. Since the training operations are designed to simulate takeoff and landings on an aircraft carrier, proposed operations cannot be restricted to above 1,000 ft AGL. The FCLP operations would be similar to typical takeoff and landing operations at Andersen AFB in general and would include all standard operating procedures.

J-018-033

Thank you for your comment. Impacts associated with the construction of the magazines are discussed in the EIS. It is the intent of the Navy to continue allowing access to these areas for ES work.

The Navy is also proposing conservation measures to support reintroduction of native endangered or threatened species on DoD lands on Guam consistent with species recovery plans. In further support of such recovery efforts, the DoN intends to actively participate in recovery committees for endangered or threatened species on Guam. When DoN and USFWS mutually agree the constraints to reintroduction of native threatened or endangered species on DoD lands on Guam have been minimized to a point that a feasible and successful re-introduction of the affected species is more probable than not, the DoN will work with the

		DAWK	Journem	S to DEIS/OF	318 Guam and Ci	NMI Military Rel	ocation neut Response Matrix	Page 10 of 135	
	GDAV	R-Comme	nts 2-16-2	010		Draft EIS/OEIS Gu	nent Response Matrix nam and CNMI Military Relocation		
	2				scation				
	_	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
)18-	047 43	2	10-134	4	10.2.2.6	GDAWR	Specific conservation measures in place include aircraft training restrictions and Post-typhoon training schedule restrictions to protect fruit bats and crows.	In addition to the restrictions with over- flights (agl) in specific areas as described i this section, hovering of aircraft should be prohibited over forested areas.	
	44	2	10- 134/5	5	10.2.2.6	GDAWR	Existing conservation measures on Navy lands would be continued under the proposed action swiftlet; moorbens; and BTS interdiction and control measures	In addition conservation measures should be developed and implemented for the native species found in Navy lands such as tree snail, skink and gecko, butterfly, and fruit bat.	
	45	2	10-135	8	10.2,2,6	GDAWR	One week prior to clearing survey for species	Surveys for wildlife must occur immediate before clearing as fruit bats may move into area and roost the night before clearing.	
	46	2	10-135	ĵ	10.2.2.6	GDAWR	No maneuver and navigation training occurs in areas with known Mariana common moorhen nesting activity.	The FEIS must clarify moorhen nesting monitoring on Navy lands prior to and/or during training. USFWS and GDAWR shot be notified of results.	
	47	2	10-135	2	10.2.2.6	GDAWR	The Navy is considering some or all of the potential protection measures described below to minimize potential impacts to special-status species.	The Navy should not be 'considering', but rather should be "developing and implementing all" protection measures to minimize impacts to special-status species.	
	48	2	10-135	3 rd bullet point, last sentence	10.2.2.6	GDAWR	Or if fruit bats are present within 492 ft (150 m) of the project site, the work must be balted and not started again until the bat has left the area.	The text, 'on its own volition', should be inserted at the end of the statement.	
	49	2	10-136	2 nd /3 rd bullet point	10.2.2.6	GDAWR	A qualified biologist would conduct weekly monitoring of Mariana fruit bats at all roost sites in the project area	DoD must coordination with GDAWR for monitoring fruit bats and crows. GDAWR has been monitoring for 30 years on AAFB. No actions within the proposed actions should curtail the ability of GDAWR to continue to carry out their mission.	

U.S. Fish and Wildlife Service to develop a re-introduction plan and supporting programmatic biological opinion that ensures such re-introduction efforts are consistent with the species recovery plans and the military mission on Guam. Constraints to successful re-introduction would include things such as controlling the brown tree snake and feral cat populations on Guam.

J-018-034

Thank you for your comment. A salvage and re-use plan for plants would be developed or required of contractors before clearing began. The Navy would review contractor plans. This requirement has been added to the FEIS.

J-018-035

Thank you for your comment. This referenced figure is included in the Draft and Final EIS as ES-2 in the Executive Summary and repeated again as 3.2.1 in Volume 1.

J-018-036

Thank you for your comment. Additional information on these issues have been incorporated into the Final EIS in Volume 2.

J-018-037

Thank you for your comment. All habitat types have been evaluated for impact.

J-018-038

Thank you for your comment. The FEIS includes a discussion of the requirement for coordination of the proposed SUA with the MIRC EIS in regards to the existing air routes and airspace management. Proposed flights would comply with the existing flight restrictions that requires avoidance of overflight of threatened and endangered species sites.

	G	DAWR C	omments	to DEIS/OE	IS Guam and CNM	I Military Relo	cation	Page 11 of 135
	GDAW	R-Commen	ts 2-16-20	10	Dra	Comm oft EIS/OEIS Gua	ent Response Matrix am and CNMI Military Relocation	
	#	Volume		Paragraph	Section Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	048 50	2	10-137	4 th bulletpoint	10.2.2.6	GDAWR	The Navy, in compliance with the DoD Defense Transportation Regulations, Ch. 505 protocols, is committed to implementing 100 percent inspection of all outgoing vessels and aircraft with dog detection teams.	100 percent inspection of incoming vessels and aircraft should be implemented to avoid the spread of invasive species to Guam.
J-018	51	2	10-138	2	10.2.2.6	GDAWR	Potential Conservation Measures and Bass Management Practices, Ungulate Management Plan, This plan is currently being developed by the Navy to control and monitor ungulates including deer, pigs, and carabao on all military lands in Guam	DoD should coordinate with GDAWR for the development and implementation of the Unguiste Management Plan. GDAWR is the local authority for game management and issues permits for take of game.
J-018-	050	2	10-140	1	10.22.6	GDAWR	Potential Mitigation Measures: Ecological Reserve and Conservation Areas: The Navy would corsider the creation of new ERAs or conservation areas.	Text should read: 'Navy would expand existing Orote ERA and would create new ERAs or conservation areas'. ERAs and conservation areas'. ERAs and conservation areas should not be restricted to military lands but in public lands as well. Expanding Haputo ERA should be an option for mitigation.
J-018-	53	2	10-140		10.2.2.6	GDAWR	ESA-Protected Sea Turtle Natural History	In addition to the leparoscopy program, mitigation for nesting sites within military lands and adjacent areas should be addressed and implemented.
J-018-	052 54	2	10-160		Table 10.2.8	GDAWR	Summary of Potential Mitigation Measures: Vegetation-None, for all alternatives.	After avoidance, mitigation measures for vegetation removal should include seed collection for nursery and translocation of seedlings.
	55	2	10-19		Figure 10.1-7	GDAWR	Fauna listed in the Logend	Figure is incomplete with the listed Fauna. Occurrence of native reptiles and invertebrates should be identified in the Figure.

Thank you for your comment. The DoN is developing a Micronesia Biosecurity Plan (MBP) to address potential non-native invasive species impacts associated with this EIS as well as to provide a plan for a comprehensive regional approach. The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks. It is being developed in conjunction with experts within other Federal agencies including the National Invasive Species Council (NISC), U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS), the US. Geological Survey (USGS), and the Smithsonian Environmental Research Center (SERC). The plan is intended to be a comprehensive evaluation of risks in the region, including all Marine Corps and Navy actions on Guam and Tinian. The Navy will develop biosecurity measures to address non-native invasive species issues that will supplement existing practices. For additional information on the MBP and existing and interim measures for non-native invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-018-040

Thank you for your comment. Consultation with the agencies will be conducted on the cargo storage facility at Andersen AFB. The DoD is already cooperating with various USDA APHIS entities (e.g. Pest Control & Quarantine, Wildlife Services, Veterinary Service) for the completion of a Micronesia Biosecurity Plan (MBP). The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks, including air cargo pathways at Andersen AFB. For additional information on the MBP and existing and interim measures for invasive species control, please refer to

	DAWKC	omment	s to DEIS/O	EIS Guam and CNI		ocation tent Response Matrix	Page 12 of 135
GDAW	R-Commer	its 2-16-20	010	Dr		nent Response Matrix am and CNMI Military Relocation	
ü	Volume	Page	Paragraph	ocation	Commenter	EIS/OEIS Statement	GDAWR's Comment
053 56	2	10-21	Taragraph	10.1.2.1	GDAWR	Invertebrates: Native land hermit and coconut crabs are present in coastal areas at Anderson AFB.	In addition to coastal areas, ecconst crabs may be found in mature limestone forest at in karst areas. Pati Point, NWF, Upper Tarague cliff areas are known areas for ecconst crabs to occur. Note: all of Gusm considered coastal.
57	2	10-22	2	10.1.2.1 Andersen AFB	GDAWR	Wildlife - Non- Native Species; Mammals; However, due to chronic low-level posching of the Mariana fruit bat, the USFWS 5-year review of the Mariana fruit bat recommended that this recreational hunting program be replaced with a sustained control program (USFWS 2007a).	Recreational hunting programs, as well as integrated post management approach, sho be considered to reduce ungulate damage te IS habitat. In IS sensitive areas, technique such as trapping, archery, and snares shoul be used to avoid noise disturbance to the species by shotguns.
58	2	10-22	6	10.1.2.1 Andersen AFB	GDAWR	Wildlife – Non-Native Species; Invertabrates; The Asian cycad scale is an unintended pest introduction to Guam, and has effectively climinated the cycad Cycas circinalis, a dominant mid-level canopy species of limestone forests.	The DEIS statement that the scale insect infestation "effectively eliminated the Cyccircinalite is totally false. Efforts are underway to recover cyeads through the introduction of bicocentral agents for the cycad aulacaspis scale. Mature plants are currently proteoted from scale damage by a lady beetle. Major impediments to the recovery effort are habitat destruction and seedling predation by uncontrolled ungulan populations on iands occupied by DoD. At cycads must be protected in prevent any further elimination of the tree. Note: the proper same is Cycam microarelica.
59	2	10-22	7	10.1.2.1 Andersen AFB	GDAWR	ESA-listed Species and Critical Habitat: Essential habitat for the Mariann fruit but, Mariana crow, and Gnam Microssian kinglisher, based on the 2002 proposed critical habitat ruling and Mariana crow Recovery Zones, include much of the installation outside of the cantonment and housing areas.	Essential habitat for the Guam rail should b included.

Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-018-041

Thank you for your comment. The impact on habitat of the proposed actions has been estimated and is located primarily in the terrestrial biology sections of the Final EIS. A complete list of best management practices and mitigation measures is included in Volume 7.

J-018-042

Thank you for your comment. Munitions storage facilities were sited in an area of Andersen AFB compatible with this military land use. Appropriate safety buffers are included in the proposed action. Adjustments were made to ensure consistency with the HMU.

J-018-043

Thank you for your comment. Wildlife that is displaced will move into adjacent areas. Displaced ungulates and mitigation are addressed in subsequent pages of Chapter 10. Conservation measures are addressed in subsequent pages of Chapter 10.

J-018-044

Thank you for your comment. The Marine Corps recognizes the various issues associated with household pets and has adopted a new order "Domestic Animal Control" (MCO 1000.22 Chapter 6, August 11, 2009) that will be applicable to the forces relocating to Guam. A few of the key points relevant to pet population control are: 1) Bachelors will not be allowed to have pets, 2) families are limited to 2 dogs, 2 cats or 1 dog and 1 cat, 3) all pets are to be registered with local veterinary treatment

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Page 13 of 135

Comment Response Matrix
Draft EIS/OEIS Guam and CNMI Military Relocation

GDAWR-Comments 2-16-2010

#				ocation		EIS/OEIS Statement	GDAWR's Comment
	Volume	Page	Paragraph	Section	Commenter	E13/OE13 SIACHIER	ODA: NO COMMISSION
8- 054	2	10-22		Mammals	GDAWR	"Reintroduction afforts in Area 50 and MSA at Andersen AFB determined that cat prodution was a major limiting factor to native species recovery efforts"	Guam rails (Gallirallus owstoni) and Mariar crows (Corvus kubaryi) were released in these areas. The FIEI must indicate that repatriation of Guam's ES to DoD lands is imperative to the DoD's responsibility to mitigate and compensate for previous and proposed actions.
61	2	10-23		Table 10.1-4	GDAWR	Under Occurrence at Andersen AFB, for the Micronesian starling, '1 small population, not more than several hundred'.	The FEIS should analyze impacts to the starlings by proposed activities in Andersen.
62	2	10-23		Table i0.1-4	GDAWR	For the native tree snails: Historically present in Tarague Basin, but none observed in 1989 survey.	More recent survey information should be available. GDAWR contracted a snail survey in northern Guam. The FEIS should indicate results of the newest survey and, if Tarague was not surveyed, a supplemental survey should be completed.
63	2	10-24		Figure 10.1-9	GDAWR	Legend: Mariana Crow, Mariana Fruit bat, and Guam Micronesian Kingfisher	Figure 10.1-9 does not indicate habitat for the endangered Guam rail and Mariana swiftlet Both species historically are known to occur in AAFB.
64	2	10-25	4	10.1.2.1	GDAWR	Mariana Fruit Bat: Andersen AFB recently established a management plan for Mariane fruit bat that identifies important roosting and foraging habitat on base, and describes management activities to benefit the species.	The FEIS should include Andersen's AFB management plan for the Mariana fruit best the appendices for the readers to align the established management plan for the fruit be with the proposed activities.
65	2	10-26		Mariana Crow	GDAWR	Discussion on the Meriana crow and priority areas of this species	The section on the Mariana crow should include information on the status of the species on Rota. The FEIS should contain information in order to reflect the status of this species, as well as the possibilities to recover crows through translocation from Rota.

center, 4) vaccination and microchips are required and 5) spay and neutering is strongly encouraged but not required. The microchip requirement would deter abandonment, because the owners know in advance that they could be identified as being responsible for pet abandonment. This new order is added to Volume 8 of the Final EIS and Volume 7 summary table of Best Management Practices. The numbers of pets arriving is described in Volume 2, Section 10.2. 3,520 Marine Corps families are proposed for the Marine Corps action. An assumption is made that approximately half of these families would have pets. This is more reasonable that assuming all of the families would have 2 pets each. The military typically allows 2 pets per family. As many as 3,520 pets could relocate with the Marine Corps.

J-018-045

Thank you for your comment. *Heritiera longipetiolata* trees not in range footprints would not be cleared. Efforts will be made to avoid individuals of this species and as a last resort transplanting or propagation would be attempted. Fruit bat surveys on DoD lands are ongoing and available data has been incorporated into the FEIS. Fruit bat protections and mitigation for habitat loss that is being developed in the USFWS Section 7 consultation is being incorporated into the FEIS.

J-018-046

Thank you for your comment. The "secondary habitat" designation is in the USFWS moorhen recovery plan cited at the end of the statement.

J-018-047

Thank you for your comment.

Overflight restrictions would include hovering aircraft.

Protection, monitoring, and/or conservation measures are being

		GDAWR C	omment	s to DEIS/O	EIS Guam and CNN			Page 14 of 135	
	GDAV	VR-Commer	nts 2-16-2	010	Dr		ent Response Matrix nm and CNMI Military Relocation		
	#	Volume	Page	Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
J-018-	66	2	10-27	3	Green sea turtle	GDAWR	In 2005, 11 occurrences of crawls, body pits, nesting, or hatchlings were documented at Tarague Beach. Most recently, the 2006 season recorded five occurrences of green turtles at Tarague Beach (Andersen AFB 2008b).	The information regarding sea turtle nesting needs to be updated and included in the FEIS/OFIS. GDoAG has the following information regarding sea turtle nesting at Tarague Beach: 10 to total nests = 11 (July to October) = EOD 2006- total nests = 5 (Feb to June) = Tarague basin (Scout beach) 2007- total nests = 6 (July-6 nests 2 false) = EOD 2009- total nests = 11 (April to June) = Tarague basin (May to August) = EOD	
J-018-	056 67	2	10-31	1	10.1.2.2	GDAWR	Wildlife-Native Species: Shorebirds observed in 1986 included the wandering tattler and common sandpiper. The common sandpiper is actually 'uncommon.' But a regular winter visitor to Guam and the Marianas.	This is an example of the DEIS failing to include more recent and inclusive data in the assessment. The FEIS needs to include the most up-to-date information available for all resources.	
	68	2	10-32		Table 10.1-6	GDAWR	Under the column; Occurrence at NCTS Finegayan; for the Mariana fruit bat, 'None currently occur, but essential habitat present'.	Bats are known to occur within the area, the habitat present serves as a foraging ground for the bats.	
	69	2	10-33		Figure 10.1-11	GDAWR	Occurrences of Special-Status Species and Essential Habitat and Recovery Zones for ESA- listed Species on or in the Vicinity of NCTS Finegayan	The Guam rail should be included in the figure.	

proposed for all species that are potentially impacted by the proposed action. Additional descriptions of these have been added to the FEIS.

Monitoring for fruit bats immediately before clearing would occur to prevent disturbance to the species.

The only proposed training in known moorhen areas would be in southern NMS. Language on training restrictions for nesting moorhens will be added to the FEIS.

Specific protection measures have been described in the FEIS.

The text "of its own volition" is not believed to be necessary since anything otherwise would be harassment and a violation of the ESA.

DoD would coordinate with GDAWR on fruit bat and crow monitoring and allow access to its lands to the extent possible given mission requirements.

J-018-048

Thank you for your comment. Various types of inspections are already required for military shipments per the Department of Defense (DoD) Transportation Regulations, Instructions, Guidance and per an MOU between the Department of Defense (DOD) and USDA-APHIS titled Military Agricultural Preclearance/Inspection Program. This type of information has been added to the FEIS. For additional information on the MBP and existing and interim measures for invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

	G	DAWR C	omments	to DEIS/OE	IS Guam and CNM	II Military Relo	cation	Page 15 of 135
		R-Commen				Comm	ent Response Matrix am and CNMI Military Relocation	
					ocation	0	EIS/OEIS Statement	GDAWR's Comment
		Volume	Page	Paragraph	Section	Commenter		A comprehensive survey for Mariana fruit bat
J-018-	057 70	2	10-34	1	10.1.2.2	GDAWR	Mariana Fruit Bat: Currently, Mariana fruit bats are occasionally observed at NCTS Finegayan. During moming observations on 10 nonconsecutive days in 2008, there were two sightings There are no known roost areas for Mariana fruit bat at NCTS Finegayan	A comprehensive survey for manifold and should be conducted in the NCTS area. In early 2009, reports of at least 15 bats were observed within the Haputo area. NCTS has essential foraging and roosting habitat for fruit bats.
J-018-	058	2	10-34	5	Green sea turtle	GDAWR	Intensive surveys have only been conducted for nesting attempts in 2007 and 2008; two suspected nest attempts and two false crawls were documented in April 2008 (presumably of green sea turtles, although this is not confirmed) (Grimm and Farley 2008).	This information was provided to the GDoAG by Haggan Watch Volunteer Mark Defely. All Haggan Watch volunteers are trained in identifying sea turtle crawl patterns to identify specie of turtle based on the residual tracks left behind. This is correct.
	72	2	10-37	2	10.1.2.3	GDAWR	Wildlife Native Species: The Pacific plover and yellow bittern were the only native bird species observed at the former FAA pareid during recent surveys It is assumed that the Harmon Annex parcel would have similar wildlife based on the vegetation mapped by USFWS	The Mariana fruit bat should be identified under this section. The habitat present in Former FAA, and GLUP 77 supports the species.
	73	2	10-38		Table 10.1-9	GDAWR	Known or Potential Occurrence of ESA-listed, Candidate, and Guam-listed Species at the Former FAA and Harmon Annex Percels	Fruit bats are known to use the Fonner PAA parcel for foraging. The area should be protected.
	74	2	10-39		Figure 10.1-13	GDAWR	Essential habitat and Recovery Zones for ESA- listed Species on or in the Vicinity of the Former FAA Parcel, South Finegayan, GLUP 77, and Harmon Annex.	Figure needs to include the Guam rail and plant species listed in the ESA-list.

Thank you for your comment. Additional study of watersheds for potential management as compensation of coral impacts as a result of the proposed actions has been undertaken between the Draft and Final EIS. This additional information is included in Volumes 4 and 9 (Appendix) of the Final EIS.

J-018-050

Thank you for your comment. The FEIS has been updated to include expansion of Orote ERA and the creation of an ERA on the Naval Munitions Site. These are considered the sites that will result in the most benefit to natural resources. Creation of ERAs on non-DoD land is not considered feasible.

J-018-051

Thank you for your comment.

J-018-052

Thank you for your comment. The FEIS has been updated to describe that conservation measures for vegetation would include ungulate control and other measures to improve habitat. These measures will improve the condition of existing vegetation. In addition, foraging plots are included in the ungulate control exclosures for outplanting native tree species. Green sea turtle nesting areas are identified on Figure 10.1-7. No other special-status reptile species and no special-status invertebrates have been identified on Andersen AFB.

J-018-053

Thank you for your comment.

The FEIS has been updated to indicate coconut crabs are found in mature limestone forest.

	R-Commer		s to DEIS/O	Page 16 of 135			
#	Volume	Page	Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
059	2	10-40	1	10.1.2.3	GDAWR	There is habitat present for the Pacific slender-toed gecko The species was not detected during recent surveys at the former FAA parcel. The Harmon Annex parcel would also be unlikely to harbor this species based on the similarity of vegetation and survey results from the nearby former FAA parcel and GLUP 77 parcels.	The Pacific slender-toed gecko should not be rated out in the Harmon Annex parcel and nearby former FAA and GLUP 77 parcels. Survey methodology will need to be adjust accordingly, such as time of day, weather, season, etc
76	2	10-40		Table 10.1-10	GDAWR	Table of Vegetation Communities within north region BRSA for proposed GRN Projects.	The table indicates the amount of habitat types to be impacted by the GRN. Total acreages need to be added to the total amou of habitat for compensation. FEIS should analyze how the increase in traffic flow reas will impact that (run off, e.c.). DoD and non-DoD lands should be ground-truthed for accuracy.
77	2	10-42		Figure 10.1-15	GDAWR	Reference to GRN124. Is a new route through Harmon Annex.	The new route will encroach into 150 acres forest. FEIS should analyze the impact to habitat, fruit bats, etc.
78	2	10-45- 10-47		10.1.2.4	GDAWR	In regards to ESA- listed species: the Mariana fruit bat, Mariana crow, Guam Micronesia kingfisher, Guam rail and tree snalls, and Guam-listed species, Pacific slender-tood gooko and moth skink.	The FEIS needs to summarize the cumularist impacts of the loss of all habitat types for all of the proposed actions for calculation of compensation. The analysis should include comparison of number of acres of habitat lo compared to the annount of habitat that is available within DoD property. The effects of fragmentation must also be a part of the analysis to determine full impact.
79	2	10-49	1	10.1.3.1	GDAWR	<u>Wildlife—Native Species:</u> The yellow bittern has been reported as occurring in the area by GDAWR (2000a). Also, the blue-tailed skink and mourning gecko were observed in forested areas during recent surveys in support of this EIS/OEIS.	Solitary bats also occur in Andersen South. The vegetation analysis for this area support the presence for foraging bats in the area.

As mentioned, poaching is a problem, therefore hunting is a less desirable control method. Integrated pest management methods are being evaluated.

The statement about cycad scale has been revised in the FEIS. The authority for plant names used in the EIS is Dr. Lynn Raulerson's 2006 plant listed posted on the UoG herbarium website. The Guam species is listed there as C. circinalis.

Some updates to habitat definition have been made in the USFWS Section 7 consultation and this has been incorporated into the FEIS.

J-018-054

Thank you for your comment.

The Navy is proposing to implement various conservation measures on Guam to avoid and minimize for proposed project impacts and to improve habitat for threatened and endangered species. These measures are intended to support the re-introduction of native endangered & threatened species on Guam, consistent with the species recovery plans. When the constraints to successful reintroduction of native threatened or endangered species have been minimized to a point that the Navy and USFWS mutually agree will provide the opportunity for feasible and successful re-introduction, the Navy will work with USFWS to develop a programmatic biological opinion to ensure that such re-introductions are consistent with the species recovery plans and will not conflict with the military mission on Guam.

Impacts to the Micronesian starling is evaluated on page 10-89 of the EIS. No significant impact is anticipated for the proposed action.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 17 of 135

Draft EIS/OEIS Guam and CNMI Military Relocation
Dian Elistonio Guini nun ornitri rimmi,

Г	#				eation		EIS/OEIS Statement	GDAWR's Comment
L	#	Volume	Page	Paragraph	Section	Commenter		
018	80	2	10-49	3	10.1.3.1	GDAWR	ISSA-Listed Species and Critical Habitat: No critical habita, resonital habitat, or recovery zones for ESA-listed species has been designated at Andersen South, and no ESA-listed species have been reported or observed at Andersen South during recent surveys in support of this EIS/OEIS.	Essential habitat and recovery zones for the Guam rail, other native avifuana, and the Mariana fruit bat include all of Guam. USFWS Recovery Plants for those species indicate northern and southern Guam for covery. The FEIS should identify Andy South and forested areast along Route 15 as recovery zones for Guam and ESA-listed species.
	81	2	10-49	4	10,1.3.1	GDAWR	Guam-listed species: Andersen South was not covered in the Air Force current and draft INRMPs prepared for the base.	Andersen South should be included in futur INRMPs. Historically, the Guern rail, Micronesian kingfisher, Mariana crow, Mariana fruit bat, tree snails and native reptiles were found there.
	82	2	10-50	ī	10.1.3.2	GDAWR	Wildlife Native Species: The yellow bittern has been reported as occurring in the area by GDAWR (2000a). Also, the blue-tailed skink and mourning gocko were observed in forested areas during recent surveys in support of this EIS/OEIS.	Solitary bats also occur in non-DoD lands (Route 15, Pagar Point area). The vagetatic analysis for this acre supports the presence foraging bats. In addition, Figure 10.1-19 (p.10-51) identified the Mariana Eight-spot butterfly and Heritlera location, which is nuentioned in the text under Wildlife—Nativ Species.
	83	2	10-50		Table 10.1-14	GDAWR	For the Mariana fruit bat, present historically but not observed within the last several years; essential habitat present	Pruit bats are known to occasionally occur within the Route 15 parcel. Without regula surveys the FEIS cannot assume bats are re present.
	84	2	10-58	1	10.1.3.4	GDAWR	Wildlife-Native Species: Because of the presence of non-native species, the disturbed limestone forested areas within the BRSA do not currently support resident native bird species.	Disturbed limestone forested areas along Route 15 have high potential for native species recovery and should be managed accordingly. The FEIS should compensate for all habitat loss.

The Navy is not aware of tree snails at Andersen AFB. No actions are proposed in Tarague basin, therefore no additional surveys are planned.

No specific habitat areas have been designated for the Guam rail or Mariana gray swiftlet on Andersen AFB.

The EIS cannot include all plans that have information on species management as it would become far too voluminous. The Andersen AFB fruit bat management plan can be obtained through Andersen AFB.

Information has been added to the FEIS on the fruit bat population on Rota.

J-018-055

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

J-018-056

Thank you for your comment.

All recent bird survey information available to the Navy for NCTS Finegayan has been included.

The FEIS has been updated to note the occasional use of NCTS Finegayan by fruit bats for foraging.

There are no occurrences of Guam rail at NCTS Finegayan therefore the species was not included. The species is discussed in the text.

		DAWR C	omment	s to DEIS/OI	EIS Guam and CN	MI Military Rel	ocation	Page 18 of 135
	GDAW	R-Commer	its 2-16-20	010	D		nent Response Matrix am and CNMI Military Relocation	
	#				ocation		EIS/OEIS Statement	
		Volume	Page	Paragraph	Section	Commenter		GDAWR's Comment
J-018	061 85	2	10-62	2	Reptiles	GDAWR	During recent surveys conducted in support of this SIS/OEIS, three native reptile species were found within the forested areas of the Orote Peninsula, in the vicinity of Dadi and Tipalao beaches, and at Polaris Point: Pacific blue-tailed skink, mourning gecko, and mutilating gecko (NR Survey Report in preparation).	Green sea turtles Chelonia mydas are known to forage at the Polaris vicinity. This needs to be included in this section in the FEIS/GEIS. Also the adjacent area known as Spanish Steps Adotgan Denkulu and Dikiki should be mentioned. Navy has this data.
	86	2	10-64		Figure 10.1-24	GDAWR	Occurrence of Special-Status Species- Naval Base Guam	Figure should include nesting area for brown noddies, and common migratory bird species.
	87	2	10-65	2	10.1.4.1	GDAWR	Mariana Eight-Spot Butterfly. One population of the Mariana eight-spot butterfly has been reported on Orote; the specific location was not given.	The FEIS should clarify status of the Mariana eight-spot butterfly. The population reported on Orote should be documented.
	88	2	10-67		Table 10.1-22	GDAWR	Known or Potential Occurrence of ESA-listed, Candidate, and Guarn-listed Species within the Apra Harbor Region BRSA for the Proposed GRN Projects.	Migratory birds should be included in the table due to presence of wetlands. Migratory birds are protected under the MBTA.
	89	2	10-69	6	10.1.5,1	GDAWR	Wildlife - Native Species: Birds Migratory birds observed in project-specific studies include the yellow bittem	The sub-section "birds" is missing the Guam swiftlet, which occurs at NMS.

Thank you for your comment. The surveys conducted at NCTS Finegayan that were summarized and your reports seem to indicate a low level of usage and this is believed adequate to describe the general level of usage and for evaluation of impacts to the fruit bat in the EIS. The Navy is currently in Section 7 consultation with the USFWS so if you have information that you believe is important that USFWS does not have, it should be provided. The comments you provided do not indicate that there are known roost areas (only habitat for roosting), therefore the statement of no known roost areas is believed correct. The Mariana fruit bat is included under the discussion for FAA and in Table 10.1-9. Your comment has been used as the basis to state that fruit bats are known to use FAA occasionally. Guam rail recovery habitat has been added to the figure. The Navy is not aware of any listed plant species being present in project areas shown in the figure.

J-018-058

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comment.

J-018-059

Thank you for your comment.

Surveys for geckos and skinks were conducted at FAA and no listed species were found. It is believed reasonable to extrapolate this to Harmon Annex and South Finegayan.

The table cited for roadways lists vegetation in the vicinity of the areas being considered and does not indicate areas that would be impacted. Impacts are evaluated in Section 10.2.

Roadway GRN124 impacts are evaluated in Volume 6.

	G	DAWR C	omments	to DEIS/OF	IS Guam and CNN	Comm	ent Response Matrix	Page 19 01 133
	GDAW	R-Commen	ts 2-16-20	10	Dr	aft EIS/OEIS Gua	am and CNMI Military Relocation	
	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	90	2	10- 70/71	4 (p.70) I (p.71)	10.1.5.1	GDAWR	Wildlife - Non-native species: Mammals: The population of feral carabao on the NMS was estimated at approximately 300 animals as of 2001 Between 1999 and 2003 the Navy, in cooperation with USFWS and GDAWR, administered an immunocentraception drug (PZP) to female carabao	The FEIS must include the current estimated population of carabao at NMS. The description of carabao control is lacking; there is no mention of the illegal 'culling' of the carabao population that occurred after immuno-contraception project. The FEIS must outline how Dob Will respect local regulations and the agencies managing Coam's natural resources. The combined effects of BRAC and the proposed activities should be analyzed. Current levels of cooperation are deteriorating with the BRAC Es are impacted by the lack of cooperation or DoD with local and federal resource agencies; that is, the recent removal of a USFWS biologist for the overlay refuge and the reduction of access for the local resource agencies.
J-018	063	2	10-71		Table 10.1-25	GDAWR	Known or Potential Occurrence of ESA-listed, Guam-listed, and Candidate Species at NMS.	Habitat for Mariana fruit bat should include ravine forest.
	92	2	10-73		Pigure 10.1-27	GDAWR	Occurrences of Special-Status Species and Essential Habitat and Recovery Zones of ESA- listed Species on or in the Vicinity of Naval Munitions Site.	Locations for the Mariana eight-spot butterfl and plants listed in Table 10.1-25 should be included in the Figure.
	93	2	10-75	5	10.1.5.2	GDAWR	Wildlife: Based on comparison with other similar habitat on Guam, these habitats are not likely to support native wildlife vertebrate species other than common species such as the yellow bittern.	The Mariana common moorhen should be included in this sentence. The habitat presen within this region supports the presence of moorhens.
J-018	0 64	2	10-78	3	10.2.1.2	GDAWR	If significant impacts are determined, then mitigation may be proposed to offset the impacts. For this EIS/OEIS, a major consideration for BMPs is biosecurity.	Biosecurity must be 100% implemented to offset impacts. Biosecurity protocols are a direct cost of operations in the Pacific.

PEIGOEIC Custs and CNMI Military Relocation

Collective impacts for all projects are analyzed in Volume 7.

Your comment has been used as the basis to state that fruit bats occasionally use Andersen South.

J-018-060

Page 19 of 135

Thank you for your comment.

Specific recovery habitat areas have been identified by the USFWS for the Mariana fruit bat, Mariana crow, and Micronesian kingfisher and these are shown on maps in the EIS. Some updates to habitat definition have been made in the USFWS Section 7 consultation and this has been incorporated into the FEIS. No specific habitat areas for species have been designated by GDAWR.

Andersen South will be included in future INRMPs.

Occasional fruit bats are mentioned in the Rt 15 area on page 10-52 of the DEIS. The wildlife section does not include special-status species these species are discussed in a subsequent section.

Additional fruit bat surveys of the Rt 15 area have been conducted and results are reported in the FEIS.

Mitigation for all forested habitat removal has been included in the EIS.

J-018-061

Thank you for your comment.

Sea turtles are discussed in subsequent pages under ESA-listed species. Only nesting areas are discussed - foraging areas are covered under Marine Biological Resources.

GDAV	/R-Commer	ats 2-16-2			Comm raft EIS/OEIS Gu	ent Response Matrix am and CNMI Military Relocation	Page 20 of 135	
5	Location Volume Page Paragraph Section Comm				Commenter	EIS/OEIS Statement	GDAWR's Comment	
065	2	10-8		Table 10.1-1	GDAWR	Table Known or Potential Occurrence of ESA- listed, Candidate, and Guam-listed Species on Guam	The Micronesian Honeyeater, Myzomela cardinalis, and Rufuous fantail, Rufrifrons urinae should be included. These species occurred on Andersen AFB and NCTS. Fe should include these species as they exist in	

the CNMI and may be repatriated to Guarn. Special-Status Species: The proposed actions Impacts on fruit bats should focus on the yould have a minimal affect on the population or Guam population and not the Mariana the subspecies with up to several thousand Archipelago. The proposed actions, along individuals present throughout the Mariana with illegal take in Rota, would have a major 10-86 10.2.2.1 Archipelago affect on the Guam population. Fruit bats are culturally important and the loss of fruit bats from DoD land would jeopardize the recovery of fruit bats on Guam. GDAWR Mariana Fruit Bat: Fruit bats are rarely observed DAWR disagrees that direct impacts from during the day in the proposed construction areas. noise and human activity with construction Construction would occur during daylight hours, would result in less than significant impacts avoiding the nighttime activity of individual 10-88 to fruit bats. Bats that forage in the proposed 10.2.2.1 Mariana fruit bats. Therefore, direct impacts from construction areas may remain at the site or noise and activity associated with construction adjacent sites during the day. The FEIS must would result in less than significant impacts to include the direct impact of vegetation loss fruit bats. and noise to the fruit bats. 2 GDAWR Guam Rail: However, because the Guam rail is The habitat present on Andersen AFB, should currently extirpated in the wild and most of Guam be the focus for the recovery of the Guarr has habitat that is potentially suitable for the rail, see goals and objectives. AAFB's recovery of the species, removal of these areas du INRMP, recovery efforts for Guam rail. to construction would result in a less than "Most of Guam has habitat..." should be significant impact. removed from the text as most is being 10-88 10221 developed in preparation for the military buildup. The FEIS should address the loss of habitat to 6S recovery "outside the fence" associated with the military buildup. The cumulative impacts of loss of habitat in and outside the fence may make it impossible to ever recover Guam's native species.

The figure referenced is intended to shown only special-status species. Other species are discussed in the text. This is consistent throughout the EIS.

Proposed project areas on Orote include only developed areas, therefore there is no need in this EIS for precise location information for the butterfly.

The table referenced is intended to show listed or candidate species, not other wildlife. This is consistent throughout the EIS.

Swiftlets are discussed in subsequent pages under ESA-listed species.

J-018-062

Thank you for your comment. Presence of carabao on NMS is not a major issue for the actions being proposed in this EIS and will be addressed in the Navy Ungulate Management Plan that is in development. In general, access to DoD lands on Guam for monitoring or patrolling by GDAWR is a DoD Joint Region policy matter and not EIS-related.

J-018-063

Thank you for your comment.

Table 10.1-25 has been updated to include ravine forest.

The location for the eight-spot butterfly and *Heritiera longipetiolata* have been added to Figure 10.1-27. These locations are somewhat general. Maps mentioned in the 1998 study could not be located. No maps were found and text descriptions for the *Cyathea lunulata* locations were not specific enough to allow a mapped location.

Moorhens are discussed under ESA-listed species.

J-018

		GDAWR C	omment	s to DEIS/OF	EIS Guam and CNI	MI Military Rele	ocation	Page 21 of 135
	GDA	WR-Commer	nts 2-16-20	910	D		ent Response Matrix am and CNMI Military Relocation	
	#	Volume	Page	Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018-0	99 99	2	10-88	4	10.2.2.1	GDAWR	Mariana Crow – The crow population is referenced as containing 170 breeding pairs (USFWS 2005b).	The estimate is based on a USFWS 2004 survey. The FEIS should indicate an updated survey to be completed. The loss of any forest on Guam should be avoided.
	100	2	10-89		Table 10.2-2	GDAWR	Under Direct Temporary Impacts from Construction-Noise, Lighting, Human Activity, for the MSA-New Magazines, impact does not apply for essential habitat for bat and kingfisher.	Mariana fruit but should be included in the table for the Direct Temporary Impacts from Construction-Noise, Lighting, Human Activity and the MSA- new magazines. Foraging bats will be forced to avoid site and forage elsewhere.
	101	2	10-97	1	10.2.2.1	GDAWR	The Navy would implement habitat restoration as a mitigation measure and control of BTS as a BMP.	Monitoring of impacts of aircraft noise on listed species is important, the FEIS (or ROD) should identify the source of funding for monitoring and that state agency will participate in these assessments. The FEIS must also indicate that the repartiation of endangered species will be allowed in DoD.
J-018-0	102	2	10-97	4	10.2.2.1	GDAWR	All Special-Status Species. 100% inspection effort for all cargo, vehicles, munitions, household goods, and other items leaving Guam. A Micronesian Biosecurity Plan would be developed	Funding for the full implementation of biosecurity should be identified in the FBIS or ROD, as well as the gaps in biosecurity measures within the individual jurisdictions. The FBIS must acknowledge that the increase in traffic and risk of invasive species throughout the region is due to the military building. DoD must ensure that biosecurity is 100% funded and initiated region to the

Thank you for your comment. The FEIS has additional description of the Micronesia Biosecurity Plan and specific descriptions of many biosecurity measures.

J-018-065

commencement of the proposed actions

Thank you for your comment. The honeyeater was not considered in the EIS because it is not an ESA-listed species and it is not currently present on Guam, therefore individuals cannot be harmed by the proposed action. The fantail was not considered because the Guam-listed subspecies is extinct.

The impact analysis and overall conclusion for the fruit bat on Guam has been revised in the final EIS. The impact focus is on the Guam population.

Before construction an area would be surveyed to determine presence of fruit bats. If present construction would not begin until the bats have left the area.

Since the DEIS the USFWS has identified specific recovery habitat for the rail. These have been used to reanalyze impacts in the final EIS.

J-018-066

Thank you for your comment.

The best estimate of the current number of breeding pairs on Rota (60) from studies conducted in 2007-2008 will be added.

Impacts to the fruit bat from temporary construction impacts has been added to the FEIS.

Potential impacts of noise on listed species is recognized and monitoring

		GDAWR C	omment:	s to DEIS/O	EIS Guam and CNI	MI Military Rela	ocation	Page 22 of 135	
	GDAV	VR-Commer	its 2-16-20	010	Di		mmeni Response Matrix Guans and CNMI Military Relocation		
	#		1.0	Location			EIS/OEIS Statement	GDAWR's Comment	
	-	Volume	Page	Paragraph	Section	Commenter			
J-018-	068 103 2 11-19 2 11.1.4.2		GDAWR	and the scalloped hammerhead shark, a PHCRT MUS, is found during seasonal spawning at one location (NOAA 2005a).	This is incorrect. Anecdotal evidence suggests that pupping and not spawning occurs around Sase Bay and Inner Harbor. The FEIS/OEIS needs to correct this and a study should be conducted to verify this information and included within the FEIS/OEIS.				
	104	2	11-20	1	11.1.4.2	GDAWR	The scalloped hammerhead is reported to spawn in Januarythrough March outside the Inner Apra Harbor Entrance Channel (NOAA 2005a), although their occurrence is reported as extremely rare (personal communication with Steve Smith, [Navy 2009c]).	This is incorrect. Anecdotal evidence suggests that pupping and not spawning occurs around Sasa Bay and Inner Harbor. The FFIS/OFIS needs to correct this and a study should be conducted to verify this information and included within the FEIS/OEIS.	

is proposed as mitigation. The Navy is proposing to implement various conservation measures on Guam to mitigate for proposed project impacts and to improve habitat for threatened and endangered species. These measures are intended to support the re-introduction of native endangered & threatened species on Guam, consistent with the species recovery plans. When the constraints to successful reintroduction of native threatened or endangered species have been minimized to a point that the Navy and USFWS mutually agree will provide the opportunity for feasible and successful re-introduction, the Navy will work with USFWS to develop a programmatic biological opinion to ensure that such re-introductions are consistent with the species recovery plans and will not conflict with the military mission on Guam.

J-018-067

Thank you for your comment. The DoN is developing a Micronesia Biosecurity Plan (MBP) to address potential non-native invasive species impacts associated with this EIS as well as to provide a plan for a comprehensive regional approach. The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks. It is being developed in conjunction with experts within other Federal agencies including the National Invasive Species Council (NISC), U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS), the US. Geological Survey (USGS), and the Smithsonian Environmental Research Center (SERC). The plan is intended to be a comprehensive evaluation of risks in the region, including all Marine Corps and Navy actions on Guam and Tinian. The Navy will develop biosecurity measures to address non-native invasive species issues that will supplement existing practices. For additional information on the MBP and existing and interim measures for non-native invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 23 of 135

	Draft EIS/OEIS Guam and CNI	MI Military R
AWD-Comments 2-16-2010		

#				cation		EIS/OEIS Statement	GDAWR's Comment
	Volume	Page	Paragraph	Section	Commenter		
105	2	11-26	4	11.1.4.3	GDAWR	The Navy, in cooperation with USFWS and GDAWR, monitors for sea turtle nesting on Navy land throughout the sea turtle nesting so navon (April – July for the green sea turtle and January – March for the hawksbill sea turtle) (Navy 2005, COMNAV Marianas 2008).	A cooperative effort between the Navy and resource agencies is currently almost non-existent for monitoring sea turtle nesting activity. It is difficult for GDoA staff to acces sea turtle nesting areas within Navy. No Navy funding is provided to GDoA for sea turtle work, and information is not provided to the GDoA on sea turtle nesting within Navy. The FEIS needs to clarify the statement and state that the Navy needs to make an effort to cooperatively work with the resource agencies for monitoring sea turtle nesting activity.
100	2	11-26	5	11.1.4.3	GDAWR	The spinner dolphin and common bottlenose dolphin are the only two marine mammals anticipated in the nearshore (<164-ft [50-m] isobaths) ROI for the study areas (Navy 2005). Table	This is not correct. Whales are also located in the study area based on GDoA aerial surveys. The PEIS needs to correct the statement.
10	2	11-27	3	11.1.4.3	GDAWR	The hawksbill sea turtle is far less abundant than the green sea turtle, and as a result, debate exists on its occurrence (rare versus regular) within the ROI.	The FEIS needs to clarify the debate it is referring to and with whom. Furthermore, an adequate sea turtle assessment needs to be conducted an included in the FEIS.

information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-018-068

Thank you for your comments. The document has been revised.

J-018-069

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

- 1. The author used information provided by joint efforts in the EIS.
- 2. Other species of whales have been identified and evaluated as appropriate based on their occurrence within the ROI.
- 3. Text has been revised to clarify.

		DAWR C	omment	s to DEIS/OI	EIS Guam and CN	MI Military Rel	ocation	Page 24 of 135
	GDAW	R-Comme	nts 2-16-20	nent Response Matrix nam and CNMI Military Relocation				
	#	Volume	Page	Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018-	108	2	11-27	6	11.1.4.3	GDAWR	Common Bottlenose Dolphin There are no occurrence records for this species in the Marianas, but this is within the known distribution range for the species. Bottlenose dolphins are expected to occur from the coastline to the 6,550-ft (2,000- m) isobaths (Navy 2005).	These are conflicting statements. The first sentence states there is no occurrence of the common bottlenose dolphin in the Marianas then the next sentence states that it is expected to occur from the coastline on out. Page 11-26 Paragraph 5 also states that the common bottlenose dolphin is anticipated in the ROI. These areas are in the Marianas. The DEIS needs to correct this discrepancy that there are no occurrence record for the common bottlenose dolphin in the Marianas.

Thank you for your comment. The text will be reviewed and modified as appropriate. The author agrees that some references on this topic are conflicting, specifically Navy 2005 and NOAA 2005. For this reason, and considering their typical range near the coast, the DoD has conservatively included this species in the impact analysis.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Comment Response Matrix

Draft EIS/OEIS Guam and CNMI Military Relocation

Page 25 of 135

GDAWR-Comments	2-16-2010	
ODY WK-Comments	2-10-2010	

		1		Lo	cation		EIS/OEIS Statement	GDAWR's Comment
	#	Volume	Page	Paragraph	Section	Commenter		
-018-	109	2	11-29	6	11.1.4.4	GDAWR	If it is necessary for a surface ship to load ballast water in an area that is either potentially polluted or within 3 nm from the shore, it is Navy policy for the ship to pump the ballast water out when outside an area 12 nm from shore and twice rinse the ballast tank(s) with clean sea water prior to the next entry within 12 nm of shore. Surface ships perform a ballast exchange twice in clean water, even if the ballast water was pumped out before exiting the polluted waters or 3 nm limit, as residual water remaining in a tank after emptying it may still contain unwanted organisms that could be transferred during the next ballasting evolution (Navy 2003).	This paragraph needs to be rewritten and included in the FEIS to clarify exactly how far out a ship has to be before pumping ballast water ballast. A copy of the Navy policy on ballast water release needs to be included in the FEIS/OEIS.
	110	2	11-29	7	11.1.4.4	GDAWR .	This policy is based on the U.S. Coast Guard's (USCG) —Ballast Water Management for Control for Nonindigenous Species in Waters of the U.S. (33 Code of Federal Regulations [CFR] §151 Subpart D), which is applicable to all foreign and U.S. vessels, equipped with ballast tanks that enter a U.S. port.	The U.S. Coast Guard's CFR refers to an area 200 nm out. Why isn't the Navy releasing ballast water 200 nm out?

Guam and CNMI Military Relocation DEIS/OEIS

J-018-071

Thank you for your comment. The Navy complies with all relevant US and international ocean protection laws. Chapter 11 of Volume 2 in the Final EIS addresses issues such as ballast water used in ships.

		DAWR C	Comment	s to DEIS/O	EIS Guam and CN			Page 26 of 135
	GDAW	R-Comme	nts 2-16-2	eent Response Matrix am and CNMI Military Relocation				
	#				ocation		Williams or .	
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	111	2	11-38	12	11.1.6.4	GDAWR	Specifically, roadway projects in the Central Region include pavement strengthening, road widening, intersection improvements, and bridge replacements (on Route 1), as well the rerouting of Route 15. The proposed new location of Route 15 mould redirect the road onto Department of Defense (DeD) property (Andersen South) so that the public road would not be within any firing range danger zones. These projects include; (1) pavement strengthening between Asan River and Route 1 along Route 1; (2) pavement strengthening between Route 6 and Route 4 along Route 1; (3) pavement strengthening between Route 6 and Route 4 along Route 1; (4) pavement strengthening between Route 6 and Route 4 along Route 1; (4) pavement of bridges over the Atantano, Laguas, Agana, Sasa, and Fonte rivers.	The FEIS/OEIS needs to include a rewrite of this paragraph so the rerouting of Route 15 stands out and is stressed in the paragraph. For example, "Specifically, roadway projects in the Central Region include rerouting of Route 15, pavement strengthening, road widening, intersection improvements, and bridge replacements (on Route 1)".
J-018	073 112	2	11-41	6	11.1.7.1	GDAWR	Although the southern portion of Sasa Bay is within the Navy's submerged lands, the Navy does not recognize its preserve status (COMNAV Marianas 2007a) (see Figure 11.1-11).	Sasa Bay contains a unique habitat and is a special aquatic site. The Navy should do the right thing and acknowledge Sasa Bay as a marine preserve.

Thank you for your comment.

J-018-073

Thank you for your comment.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Comment Response Matrix

Draft EIS/OEIS Guam and CNMI Military Relocation

Page 27 of 135

GDAWR-Comments 2-16-2010

				L	eation		EIS/OEIS Statement	GDAWR's Comment
1 4		Volume	Page	Paragraph	Section	Commenter		
18-07	13	2	11-41	7	11.1.7.1	GDAWR	When mangroves are not functioning properly, sediments and nutrients flow into and can damage fragile coral reef ecosystems (Scott 1993). This may account for the limited coral habitat (4.5 ac [2 ha]) in Sasa Bay.	This appears to be an attempt to minimize the importance of the mangrove areas in Sasa Bay. The statement "This may account for the limited coral habitat (4.5 ac [2 ha]) in Sasa Bay" needs to be removed from the FEIS/OEIS unless there is a scientific study conducted in Sasa Bay to confirm this.
	114	2	11-42		Figure 11.1-11	GDAWR	Sensitive Marine Biological Marine Resources	The figure 11.1-11 in the FEIS/OEIS needs to include the mangroves areas located in the north/northeastern portions of Sasa Bay marine preserve.
	115	2	11-44	3	11.1.7.1	GDAWR	The hammerhead spawning is reported to be extremely rare (personal communications with Steve Smith, [Navy 2009c]).	This is incorrect. Aneedotal evidence suggests that pupping and not spawning occurs around Sasa Bay and Inner Harbor. The FEIS/OEIS needs to correct this and a study should be conducted to verify this information and included within the FEIS/OEIS. All other references to hammerhead spawning needs to be corrected in the FEIS/OEIS.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-074

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

		GDAWR C	omment	s to DEIS/O	EIS Guam and CNN		ocation pent Response Matrix	Page 28 of 135
	GDAV	R-Commer	nts 2-16-2					
	#		,		ocation		EIS/OEIS Statement	
	_	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018-	0 75	2	11-44	7	11.1.7.1 Harbor	GDAWR	During Smith (2007) survey dives in the eastern Apra Harbor area, no hawksbill turtles were observed.	Although no Hawksbills were observed on that date and time of the survey, DAWR has species incident reports of strandings of hawksbill tutles from the area to include fishing gear entanglements. This needs to be addressed and included in the FEIS/OESI.
	117	2	11-44	7	11.1.7.1 Harbor	GDAWR	Although algal surveys were not conducted, Smith (2007) suggests that more potential sea turtle resting habitat and preferred algal forage species were present on Big Bluc Reef and the Fairway areas, where most turtle sightings occurred.	This statement needs to be removed from the FEIS/OFIS because there is no scientific evidence to support it. No algal surveys or an adequate sea turtle assessment/study were conducted, however, a conclusion is being inferred.
	118	2	11-47	7	11.1.7.1 Harbor	GDAWR	Finfishes, although present, are not abundant and are represented by only three families: Pomacentridae (damselfishes), Chaetodontidae (butterflyfishes), and Carangidae (jacks).	This is an incorrect statement. The Marine Biological Survey of Inner Apra Harbor (Smith et al. 2008) conducted by the University of Guam reported approximately 19 families of finfish. The FEIS/OEIS needs to correct this major error. Statements

Guam and CNMI Military Relocation DEIS/OEIS

J-018-075

like this do not provide for a fair and meaningful analysis of the affected

environment.

Thank you for your comment.

- 1. The Hawksbill turtle has been observed as present around Guam. Additionally, general fishing gear entanglement and recreational boating have been included as potential existing threats, among others to sea turtles around Guam.
- 2. The observations made by Smith are applicable. No text revision.
- 3. Text has been reviewed and revised. These are the three major finfish families present, the other families identified in the study were poorly represented.

	C	DAWR C	amments	to DEIS/OF	IS Guam and CNM	II Military Relo	cation	Page 29 of 135
		R-Commen				Comm	ent Response Matrix om and CNMI Military Relocation	
ŀ	#	Volume	Page	L. Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
-018	. 076	2	11-47	8	11.1.7.1 Harbor	GDAWR	On the reef at Abo Cove, cardinalfishes were observed with corals or rock, gobies with sand, mullet with rubble or sand, and a snapper was observed in the sand community.	This statement conflicts with Page 1 47 Paragraph 7 about only three families of fish present in the Inner Harbor. This is not an adequate analysis of the affected environment
	120	2	11-49	1	11.1.7.1 Harbor	GDAWR	The Inner Apra Harbor area does not represent a preferred habitat for sea turtles in comparison to the entire Outer Apra Harbor reef complex, and does not contain an abundance of algal or seagrass species that represent a major food source for sea turtles that cannot be found elsewhere in Outer Apra Harbor.	This statement needs to be removed from the FEIS/OEIS because there in oscientific evidence to support it. Sponges are also present as indicate in the Marine Biological Survey of Inner Apra Harbor (Smith et al. 200 that may also serve as a food source for sea turtles.
	121	2	11-50	1	11.1.7.1 Harbor	GDAWR	Due to the distances of Adotgan Point, Kilo Wharf and the historic Seaplane Ramp nesting areas from the proposed action under Alternative 1, it is unlikely that any nesting-related activities would be affected by the action alternatives, including night work and the associated	Seaplane Ramp is not a historic nesting six This site was discovered by the GDAA stat- only a few years ago. The FEIS/OEIS nee to correct this statement and state that Seaplane Ramp is not a historic sea turtle nesting site. The FEIS/OEIS needs to include informat on the type and power of lights being used

lights and noise.

this may affect nesting activities. By simple stating that sea turtles nesting activities are unlikely to be affected due to the distances is

Guam and CNMI Military Relocation DEIS/OEIS

J-018-076

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

- 1. See previous comment(s). These were the three major finfish families, text has been corrected.
- 2. Based on site specific, qualitative, and quantitative assessments of Inner Apra Harbor community this has been reported. No text revisions.
- 3. Based on readily available references, including the one cited in the EIS, this site was reported as historic. The Navy believes the impact evaluation is appropriate based on distance away from the proposed action. The Navy is in Section 7 consultation with NOAA/NMFS and USFWS regarding potential impacts to sea turtles.

	R-Commer		Page 30 of 135					
			L	ocation				
_	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
122	2	11-56	8	11.2.1.2 Determination of Significance	GDAWR	These communities are not considered to be coral reef (per USACE definition of what constitutes a coral reef), and therefore are not subject to compensatory mitigation.	No USACE definition could be fou in any federal statute or regulation in coral recf. The FEIS/OEIS needs te include a copy of the USACE definition. Under 40 CFR Section 230.44, coral recfs are defined as skeletal deposit, usually of calcareo or silicaceous materials, produced be the vital activities of anthozoan polyps or other invertebrate organisms present in growing portions of the recf. These communities need to be included as part of compensatory mitigation especially if no definition from USACE is provided.	
123	2	11-60	3	Special status- species	GDAWR	Sea turtle nesting areas may be affected by one or more jeopardizing actions as described under Sections 7 and 9 of the ESA. Implementation and enforcement of appropriate mitigation measures would reduce impacts, possibly from significant to less than significant with the possibility of a beneficial effects outcome compared with existing conditions. These potential impacts to nesting sea rurtles are addressed further under Volume 2, Chapter 10, Terrestrial	The mitigation mentioned is inconclusive and is not an actual mitigation. More needs to be done to suffice mitigation requirements and included in the FEIS/OEIS.	

Thank you for your comment. The USACE definition will be used or the 40 CFR definition provided will be used. The 40 CFR definition still supports the conclusion in the EIS; the area impacted in Inner Apra Harbor is not considered a coral reef ecosystem by definition. The DoD will not be performing compensatory mitigation for coral on Wharf structures.

	G	DAWR C	mments	to DEIS/OF	EIS Guam and CNM	I Military Relo	cation	Page 31 of 135
		R-Commen				Comm	ent Response Matrix m and CNMI Military Relocation	
1					ention		EIS/OEIS Statement	GDAWR's Comment
į.	"	Volume	Page	Paragraph	Section	Commenter		and the second second
J-018	124	2	11-61	6	Special Status- species	GDAWR	Special-Status Species. A less than significant indirect impact to this resource is expected from construction-related recreational activities for similar reasons as described above in EFH. Additionally, special-status species are not as common on this coast compared to others around Guam and there are no sea turtle nesting areas (see operation description below for elaboration).	Adjacent to the Andy South is the Pagat area where as the GDoA identified a total of 83 sea turtles in the water (ocean and fore reef slope) foraging. Dolphins were seen on the aerial surveys with 260 estimated individuals. The data from the aerial surveys starting the calendar year 2000 thru 2009 needs to be included in the FEIS/OEIS.
	125	2	11-61	13	11.2.2.2 Central	GDAWR	Essential Fish Habitat. There would be short-term and localized, negligible indirect impacts to fish and EFH due to the increase of construction personnel and their dependents using the adjacent coastal waters for recreational activities.	The FEIS/OEIS needs to clarify if this statement means that only construction personnel and their dependents will be using the adjacent coastal waters for recreational activities while the local people will not have the opportunity. Local people should be able to use this public resource.
J-018-	126	2	11-62	2	11.2.2.2 Central	GDAWR	Increased boating-related activities associated with construction personnel have the potential for transport of non-native species to and from other locations within the Mariana Islands chain; however, the access to this rough water coast is difficult. Therefore no major direct or indirect conduit exists for introduction of non-native species into the marine environment.	This statement is not entirely accurate. During the summer months, waters on the east side on the island are fairly calm resulting in an increase in boating activity. The statement needs to be rewritten to include an analysis of the introduction of non-native species during increased boating activities during the summer months and the analysis included in the FEIS/OEIS.

Thank you for your comment.

- 1. The impact analysis would not change as dolphins and sea turtles were anticipated off this coast and analyzed as if common in regards to projectile strikes.
- 2. This statement has been clarified in the EIS. Access to this area is not anticipated to change during the construciton period.

J-018-079

Thank you for your comment. The DoD is developing a Micronesia Biosecurity Plan (MBP) to address potential invasive species impacts associated with this EIS as well as to provide a plan for a comprehensive regional approach. Recreational boating is a recognized pathway for introducing potentially invasive species to Guam and other islands. The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks. For additional information on the MBP and existing and interim measures for invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2 Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

		DAWR C	omment	s to DEIS/O	EIS Guam and CNA	MI Military Rele	ocation	Page 32 of 135
	GDAW	'R-Commer	nts 2-16-20	010	Dr		ent Response Matrix am and CNMI Military Relocation	-
	#	Volume	Page	Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018-	080 I27	2	11-62	9	11.2.2.2 Central	GDAWR	Avoidance and minimization measures (see Section 11.2.1.1), including the use of — green bullets and periodic benthic cleanup, would be employed to decrease potential impacts.	It needs to be made clear in the FEIS/OEIS if all the bullets that will be used are green bullets or a combination of green bullets and lead bullets.
	128	2	11-64	3	11.2.2.2 Central	GDAWR	Special-status species, although potentially present within the ROI and offshore, are not common (NOAA 2005a), NOAA (2005a) does not list either of these special-status species (dolphins or sea turtles) as notably present within these coastal waters.	The GDoA identified a total of 83 sea turtles foraging in the water (ocean and fore reef slope) adjacent is the Pagat point area. Dolphins were seen on the aerial surveys with 260 individuals observed. The data from the aerial surveys starting the calendar year 2000 thru 2009 needs to be included in the FEIS/OEIS.
								The term notably is incorrect and should be replaced with the referenced data.
J-018	081 129	2	11-66	11	11.2.2.2 Central	GDAWR	The MEU embarkation ships currently come into port four times per year. This frequency would increase under Alternative 1.	The FEIS/OEIS needs to indicate the increased frequency that the MEU embarkation ships will come into port.
	130	2	11-67	3	11.2.2.2 Central	GDAWR	Vessel operations within Apra Harbor would be expected to increase proportionally to support increased embarkation training activities under the proposed action	The FEIS/OEIS needs to state the increased frequency of vessel operations within Apra Harbor

Thank you for your comments. The document has been reviewed and modified as appropriate based upon your comments.

- 1. This text has been revised. Based on the small probability that small arms ricocheted projectiles would make it to the marine environment, these mitigation measures were deemed unnecessary.
- 2. See previous response to comment. text revised and citation added.

J-018-081

Thank you for your comment. The marine transportation sections of the Final EIS include a discussion of anticipated marine vessel traffic.

	G	DAWR Co	omments	to DEIS/OF	IS Guam and CNM	I Military Relo	cation	Page 33 01 133	
	GDAW	R-Commen	ts 2-16-20	10	Dra	Comme oft EIS/OEIS Gua	aent Response Matrix aam and CNMI Military Relocation		
	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
J-018	- 082	2	11-67	Taragraph	Table 11.2-5. EFH Areas Associated with Outer Apra Harbor and Potential Effects	GDAWR	Rows 4 to 6 in Table 11.2-5 in reference to vessels in Sasa Bay	The table indicates that there will be an increase in vessel activity in Sasa Bay, which is a marine proserve. Vessels should not be entering Sasa Bay marine preserve. Discussion on the possible conflicts between the proposed action and the objectives of local policies need to be included in the DEIS.	
	132	2	11-68	2	11.2.2.2	GDAWR	The vessels would adhere to the channel centerline, use the existing Outer Apra Harbor navigational channel to the ocean dredged disposal site, and return to Inner Apra Harbor.	This is contradictory to what is stated in Volume 4 Chapter 2 Section 2.3.5 about the disposal options for dredge material. This statement needs to be revised in the FEIS/OEIS to state that beneficial reuse and upland disposal will be considered first before ocean disposal.	
J-018	133	2	11-68	2	11.2.2.2	GDAWR	.The seasonal spawning of scalloped hammerhead sharks, although reported to be extremely rare (personal communication with Steve Smith, [Navy 2009c]),	This is incorrect. Anecdotal evidence suggests that pupping and not spawning occurs around Sasa Bay and Inner Harbor. The FEIS/OEIS needs to correct this and a study should be conducted to verify this information and included within the FEIS/OEIS.	

Page 33 of 135

Thank you for your comments. With respect to the first comment, DoD woud ensure that any activity in Sasa Bay is done so in accordance with applicable regulations and policies.

With respect to the second comment, the DoD is considering several options for disposal of dredged material, including upland placement, ocean disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts from using dredged material for reuse projects will be conducted during the permitting phase.

J-018-083

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comment. The reference used (NOAA 2005) that identified this event as "spawning" has been replaced with BSP (2010) and the text has been changed to a "pupping event."

		DAWR C	omment	s to DEIS/O	EIS Guam and CNN	II Military Rele	ocation	Page 34 of 135
	GDAW	R-Commer	nts 2-16-20					
	#	Volume	Page	Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	084 134	2	11-69		Table 11.2-6. Sensitive Months for Certain Species within Apra Harbor	GDAWR	Green Sea Turtle ESA-listed, Threatened see Figure 11.2-3 Nesting: Jan – Mar	Current available information indicates that green sea turtles nest year round. Table needs to be revised to include this information.
	135	2	11-70	11	11.2.2.2 Central	GDAWR	There have been no vessel strikes on sea turtles since the Navy has been operating within Apra Harbor (Navy 2009d).	Incorrect. On Nov. 19, 2002, GDoAG was called by LT. Commander Tom Schuermann with Mr. Robert Wescom present to report a dead green sea turtle at Gab Gab beach. Upon firther investigation the green sea turtle had multiple slices to the carapace and head areas. The gash resembled that of a propeller. Please refer to DAWR species incident report 8-20-2002 /11-19-2002 & 5-13-2008. Three other incidents have been confirmed by the GDoAG.

Thank you for your comment.

- 1. Please provide "current available information" (i.e. reference and citation) identifying this extended nesting periods. Pending information, no text change.
- 2. Text will be revised and cited as stated.

	C	DAWD C	ammente	to DEIS/OF	IS Guam and CNM	I Military Relo	cation	Page 35 of 135
[R-Commen						
ł	и .				ocation	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	085	Volume	Page	Paragraph	Section	GDAWR	There would be a less than significant impact on this resource. Increased vessel	GDoAG does not agree with this statement. The Outer Apra Harbor is
	136	2	11-72	9	11.2.2.2 Central		movements associated with MEU embarkation operations have the potential for increased sea turtle strikes enroute to and from Sasa Bay (a high turtle concentration area).	not being taken into account. GDoAG has information from aerial surveys on the number of turtles within Apra Harbor, which is also not taken into account. An adequate analysis needs to be conducted to include the Outer Apra Harbor and number and speeds of vessels in Apra Harbor.
J-018	137	2	11-73	2	11.2.2.2 Central	GDAWR	If upland dredged material disposal is required for any volume of material that does not meet Marine Protection, Research, and Sanctuaries Act Section 103 rules for ocean disposal, the dredged material would be placed at existing permitted sites.	This is contradictory to what is stated in Volume 4 Chapter 2 Section 2.3.5 about the disposal options for dredge material. This statement needs to be revised in the FEIS/OEIS to state that beneficial reuse and upland disposal will be considered first before ocean disposal.

D 25 - 5125

Thank you for your comment. The proposed action, an additional 3-4 trips per year into the harbor, is considered negligible over the no-action alternative considering the Navy's existing standard operation procedures, including reduced speeds and biological lookouts, mitigation measures and BMPs that consider federally protected species and their well-being during vessel transit. The Navy will also implement mitigation measures and BMPs during in-water and land-based construction activities (i.e. dredging and wharf construction). See Volume 7 for a detailed list of these measures. The Navy is in Section 7 consultation with NOAA/NMFS and USFWS addressing potential impacts to sea turtles.

Text has been added to further evaluate the indirect recreational boating impacts, especially high speed water crafts and their potential increases in Outer Apra Harbor and elsewhere around Guam. It is anticipated that with the preparation of a Recreational Carrying Capacity Analysis Management Plan, which would provide data facilitating an estimation of potential marine environment impacts due to marine recreational activities on Guam (refer to Volume 2, Chapter 9 and Volume 7 for further information), the increased potential impacts would be mitigated to less than significant.

J-018-086

Thank you for your comment. The DoD is considering several options for disposal of dredged material, including upland placement, ocean disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be

Г		DAWR (Comment	ts to DEIS/O	EIS Guam and CNI			Page 36 of 135
	GDAW	/R-Comme	nts 2-16-2	010	Dr	Comp raft EIS/OEIS Gu	ent Response Matrix am and CNMI Military Relocation	
- [B				ocation		T	
- 1		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
018	138	2	11-73	3	11.2.2.2 Central	GDAWR	Impacts associated with the fouling communities within Imper Apra Harbor (repair of waterfront facilities) were not included in the HEA Volume 9. These communities are not considered to be coral reef (per USACE definition of what constitutes a coral reef), and therefore are not subject to compensatory mitigation.	No USACE definition could be four in any federal statute or regulation coral reef. The FEIS/OEIS needs to include a copy of the USACE definition. Under 40 CFR Section 230.44, coral reefs are defined as skeletal deposit, usually of calcareor or silicaceous materials, produced by the vital activities of anthozoan polyps or other invertebrate organisms present in growing portions of the reef. These communities need to be included as part of compensatory mitigation especially if a no definition from USACE is provided.
	139	2	11- 74-75	Last on 74 first in 75	Exsential fish Habitat	GDAWR	Fish and invertebrates species with FMPs are poorly represented within the Inner Harbor as described above in the marine flora, invertebrates and associated EFH discussion. Based upon the available data and information provided in Section 11.1.7, there is no reason to suspect that Inner Apra Harbor is serving as a significant spawning or nursery area for either invertebrates or fishes and/or any other FMP species.	Mangroves are known hatchery area as well as juvenile areas for fish species and serve as resting areas for sea turtles. The FEIS/OFIS needs to include this information.

done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts from using dredged material for reuse projects will be conducted during the permitting phase.

J-018-087

Thank you for your comment.

- 1. See previous response.
- 2. This is stated in the EIS in several locations.

Guam and CNMI Military Relocation DEIS/OEIS

Page 37 of 135 GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix
Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 GDAWR's Comment EIS/OEIS Statement Wolume Page Paragraph Commenter The Inner Apra Harbor area does not This statement needs to be removed J-018-088 represent a preferred habitat for sea turtles from the FEIS/OEIS because a sea in comparison to the entire Outer Apra turtle assessment was not conducted 6 on Page 11-75 Harbor reef complex, and does not contain to support the claim. Sponges are 11-75 an abundance of algal or seagrass species also present as indicated in the 11.2.2.2 Central

that represent a major food source for sea turtles that cannot be found elsewhere in Apra Harbor (Smith et al. 2008) that

Aside from a recent observation during a Stranding reports from this location is survey in Inner Apra Harbor (Smith B.D. available to reference the amount of

sea turtles.

may also serve as a food source for

species occurrence for strandings.

This is measurable over time and needs to be addressed in this section

to include aerial surveys for the area.

turtles that cannot be found elsewhere in

et al. 2008) no other observations have

available for Inner Apra Harbor.

been reported. No density information is

Outer Apra Harbor.

Guam and CNMI Military Relocation DEIS/OEIS

2

141 2 -11-76

11-76

and 1 on

Page 11-

Special status-

J-018-088

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comment.

	R-Commer		s to DEIS/OF	Page 38 of 135			
#		-		cation		EIS/OEIS Statement	
	Volume	Page	Paragraph	Section	. Commenter	EIS/OEIS Statement	GDAWR's Comment
142	2	11-76	2	Special status species	GDAWR	Due to the distances of Adotgan Point, Kilo Wharf and the historic Scaplane Ramp nesting areas from the proposed action under Alternative 1,	Scaplane Ramp nests was discover on April 22, 2006 and confirmed a the incubation period of discovery July 19,2006 GPS Location: N 13.27.86/E 144.39.68.9 Total number of Egg casings (hatched)?9 Total number of full term embryo's 10 Predated eggs: 1 with embryo 's ea The total number in this chutch is 9 The findings during this site visit, a with thorough inspections to the potential nests concludes that it is evident that the displacement of sar indentation marks on the vegetation and egg casings, including skeletal remains found in the mound (clutch was created by a sea turtle. Please reference DAWR Incident report 7-19-2006 and is not a historical site, rather a recent site. The reference to Scaplane Ramp as a historic nesting site needs to removed from the FEIS/OEIS.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-089

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comment.

	G	DAWR Co	omments	to DEIS/OF	IS Guam and CNM	I Military Relo	cation	Fage 39 01 133
		R-Commen				Comme	nt Response Matrix m and CNMI Military Relocation	
	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	143	2	11-77	22	11.2.2.2 Central	GDAWR	The Navy recognizes that there are many on-going and recent past studies on the subject of potential exposures to sea turtles and other marine species from pile driving actions. Further research and validation of these studies are necessary prior to being able to determine the applicability of the methodologies and results to the proposed action within this Draft EIs/OEIS. The Navy will continue to research these studies and where appropriate, incorporate and apply methodologies, naulysis, and results to the ongoing impact analysis to sea turtles from the proposed action. Applicability of these studies will also be coordinated through consultations with NMFS. The Final EIS/OEIS will contain revised sea turtle impact analysis as developed through the process described above.	This is not in line with 40 CFR Section 1502.16 Affected Environment, which states that "The discussion will include the environmental impacts of the alternatives including the proposed action, any adverse environmental affects which cannot be avoided should the proposal be implemented" In other words, the DOD must analyze the full range of direct, indirect, and cumulative effects of the preferred alternative, if any, and of the reasonable alternatives identified in the draft EIS. Obtaining these studies should not require an exorbitant cost and the studies needs to be included in the FEIS/OEIS as well as the environmental affects.
J-018	091	2	11-88		Table 11.2-13	GDAWR	These impacts would occur during dredging and in-water construction activities of the wharves (i.e. pile driving) and LCAC and AAV operations area associated with Inner Apra Harbor, including dredged spoils tug and scow movements through Outer Apra Harbor to the ocean disposal site.	This is contradictory to what is stated in Volume 4 Chapter 2 Section 2.3.5 about the disposal options for dredge material. This statement needs to be revised in the FEBS/OEIS to state that beneficial reuse and upland disposal will be considered first before ocean disposal.

..... DEICORIC Cusm and CNMI Military Relocation

J-018-090

Page 39 of 135

Thank you for your comment. Consideration has been given to your suggestions and the document has been modified as appropriate. The FEIS was modified to refer to a Biological Assessment that includes more information on this matter.

J-018-091

Thank you for your comment. The DoD is considering several options for disposal of dredged material, including upland placement, ocean disposal, and beneficial uses such as shoreline stabilization, fill for berms, and fill for the Port Authority of Guam, as discussed in the EIS (Chapter 2, Volume 4). Using dredged material for beneficial reuse projects would depend upon the suitability of the material for these projects as well as whether the proposed action timeline coincides with the need for material for a reuse project. Detailed analysis cannot be done at this time because specific projects have not yet been identified with certainty. While beneficial reuse is a priority for the DoD, the final decision on dredged material management will be made during the final design and permitting process. Detailed analysis of the potential impacts from using dredged material for reuse projects will be conducted during the permitting phase.

		DAWR C	omment	s to DEIS/O	EIS Guam and CN			Page 40 of 135
	GDAW	R-Commer	nts 2-16-20	910	1	Comm Praft EIS/OEIS G	nent Response Matrix nam and CNMI Military Relocation	
	#			L	ocation		1	
	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	092 145	2	2-104	7		GDAWR	Proposed Operations. (Also, see Fig. 2.5-7. MWDK site plan. The site plan includes facilities for working dogs.) No BTS USDA dogs kennels are planned.	The GDAWR highly recommends and insist that facilities to house USDA BTS working dogs be identified to meet mission needs. USDA BTS dogs are crucial to implementation and interdiction of BTS. In addition, the interdiction of peats from incoming military equipment is crucial to preventing spread of invasive species to Guam and within the region.
-018	093	2	2-29		Fig. 2.2-3	GDAWR	Illustrates the beddown of various facilities of the cantonment.	GDAWR recommends that Alternative 3 be selected to lessen the impacts to the Overlay Refuge. Alt. 3 will require 377 acres.
	147	2	2-31	Map	Fig. 2.2.4	GDAWR	The Cantonment/Hoosing Area Alternative 1 depicts a Utility area in the Potts Junction Area in proximity to the HMU, along Rte 3A.	The FEIS should describe the extent of the Utility area at Potts and address the impact this utility facility would have on the HMU mitigation site. Any acquisition of land would also need to be identified.
-018	148	2	2-51	Table	Table 2.3.4	GDAWR	The table indicates that about 1200 FCLP are planned (370 –AAFB, and 740 NWF).	The table does not mention the noise level this would have and how it would impact the T& E species. The FEIS should address noise levels and how it would minimize impacts. Flight operations should require a straight in approach and a required AGL minimum. The threatened MPBA are known in the area. The FEIS must identify how the impact will be mitigated.
-018	- 095 149	2	2-55	Figure	Fig. 2.3-10	GDAWR	The figure illustrates new SUA for the Pagat- Andersen South Area extending into the Coastal areas to the East, over 4-miles.	The extension of these SDZ and SUA are depicted restricting access to these areas – or land, sea and airspace. The FEIS should address how this will be mitigated.

Thank you for your comment. DoD is working with USDA to provide the necessary facilities for the BTS working dogs. As for incoming military equipment, various DoD Service Instructions call for washdowns of vehicles in appropriate facilities either at departure or arrival points, and inspection of cargo.

J-018-093

Thank you for your comment. The preferred alternative is selected based on many factors, in addition to terrestrial natural resources.

Utilities are evaluated in Volume 6 of the EIS.

J-018-094

Thank you for your comment. Potential noise impacts to listed species are presented in Volume 2, Section 10.2, including Tables 10.2-2 and 10.2-3 and Figures 10.2-6 and 10.2-7. Based on the presented analysis, impacts due to noise from the proposed activities would not be significant to species. Flight operations would be conducted in accordance with standard Navy training and safety requirements for FCLP operations.

J-018-095

Thank you for your comment. The FEIS has been updated to include a discussion of the coordination, scheduling, and mitigation actions that are in place to ensure areas that lie underneath the SUA provide for existing procedures for monitoring threatened and endangered species to continue.

	G	DAWR C	nments	to DEIS/OE	IS Guam and CNM	I Military Relo	cation	Page 41 of 135
		R-Commen				Commo	ent Response Matrix m and CNMI Military Relocation	
	#	Volume	- I	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	- 096	votume 2	2-56	2	2.3.2.2	GDAWR	Ammunition Storage Alternatives. MSA1 use for ECMs would not entail changes in the ESQD	The FEIS must identify an alternate LEDPA site—the proposed location of 12-ECMs in AAFB 5MSAI is in good native limestone habitat. T&E species utilize the area. The protection of habitat is essential to recover species, especially the Overlay Refuge. The FEIS must address how access by GDAWR will be provided to memitor and recover species on DoD lands.
	151	2	2-58		Figure 2.3-12	GDAWR	Proposed USMC (ECM Location) 12 ECMs, each: 250-269,000 lb NEW	Location of the 12 ECMs is Mariana crow nesting habitat and Mariana fruit bat foraging area. GDAWR recommends that the habitat not be disturbed.
J-018	097 152	2	2-59		Figure 2.3-13	GDAWR	Firing and Non-firing range alternative considered: Location of Route 15, Pagat Point firing range (retained alternative).	Proposed range at Pagat Point, will impact recreation, cultural resources and T&B species. To meet purpose and need existing firing ranges in DoD lands (AAFB or Navy) should be considered to avoid impacts that would occur at Pagat.
	153	2	2-62	2	2.3.2.5 Firing General Military Skills Training Alternatives	GDAWR	The East-West and the west coast alternatives described in Table 2.3-7 were eliminated following advise of the office of the Glovernor. The amount of submerged landunacceptable impact on recreational activities and traditional fishing areas	The East coast alternative and Pagat Point have similar issues as the East-West and West Coast alternatives described in Table 2.3-7. The FBIS should analyze an alternative that includes upgrading existing ranges at DoD lands – expanding Taregue range towards Scoul Beach.

Dogg 41 of 125

Thank you for your comment. No practicable alternative location was identified for the 12 ECMs.

J-018-097

Thank you for your comment. DoD was required to determine whether military relocation requirements could be met by excess, underutilized or otherwise available property held by DoD on Guam. Early development plans attempted to keep all activities on existing DoD lands. However, as discussed in the FEIS (Volume 2, Chapter 2), after applying operational and environmental screening criteria, no contiguous DoD area on Guam was identified that could support all the land use and operational requirements of the action.

		DAWR C	omment	ts to DEIS/OI	EIS Guam and CN	Ml Military Rel	ocation	Page 42 of 135
	GDAW	R-Commer	nts 2-16-2	010	I		nent Response Matrix nam and CNMI Military Relocation	
				L	ocation			
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	098	2	2-82	S	2.5.1	GDAWR	Amphibious vehicles will be washed down in the Apra Harbor area prior to loading or unloading to prevent the spread of invasive species, as per the COMNAV Marianas Instruction 5090,10A. A BTS perimeter feace will be installed.	The FEIS needs to identify appropriate biosecurity measures to prevent the spread of all invasives within the region. The FEIS must address how invasives are removed from the amphibious weblicles. Washdown procedures are not adequate for removing BTS and possibly other invasives. If a BTS barrier perimeter fence is installed, it must be augmented with other BTS control tools, such as tipps, visual searches, and dog inspections. The DEIS indicated sterilization of waste prior to the disposal of the material.
J-018	- 099 155	2	2-88		Table 2.5.2	GDAWR	Serra/Tango Wharves – proposed plan to dredge from -35 to -38 ft. MILLW (16.7 to -11.6 M), approximate 508,877 CY of dredged material will be removed.	The FEIS should address control of silt material and location of de-watering and disposal sites. Any construction in the area must take into account the possible presence of sea turtles. Recording incidental sightings white completing other duties is not an adequate survey method for quantifying sea untile use of the harbor.
J-018	- 100	2	2-88		Table 2.5.2	GDAWR	Southwest of Victor Wharf: A BTS perimeter fence is indicated.	The FEIS should address the integration of BTS control tools within the fence line in order to remove snakes from the area. The FEIS should also address other monitoring techniques for invasives that may be transported — other traps, CRB, etc.
J-018	- 101	2	2-97	3		GDAWR	This area (43,478 m2) will be cleared for MEU/AAV beddown. The trees in this area will be removed.	The FEIS should identify what species of trees will be removed, and indicate disposal. The DoAg's FSRD would require that these trees be saved if possible for use in other sites.

Thank you for your comment. The DoD is developing a Micronesia Biosecurity Plan (MBP) to address potential invasive species impacts associated with this EIS as well as to provide a plan for a comprehensive regional approach. The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks. It is being developed in conjunction with experts within other Federal agencies including the National Invasive Species Council (NISC), U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS), the US. Geological Survey (USGS), and the Smithsonian Environmental Research Center (SERC). For additional information on the MBP and existing and interim measures for invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-018-099

Thank you for your comment. The discussion of proposed dredging in the Inner Apra Harbor and its impacts to water quality and marine resources as well as the use of best management practices and project specific mitigation measures to reduce impacts is included in Chapters 4 and 11 of the Final EIS.

J-018-100

Thank you for your comment. Please see response to J-018-098.

J-018-101

Thank you for your comment. The evaluation of impacts for vegetation removal is in Chapter 10 of Volume 2.

	G	DAWR Co	mments	to DEIS/OE	IS Guam and CNM	I Military Relo	cation	Page 43 of 135
		R-Comment				Comme	nt Response Matrix m and CNMI Military Relocation	
- 1	#				cation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
}-818	102 -103	Volume 2	22-61	Paragraph	2.3.2.5	GDAWR	Firing General Military Skill Training Alternatives —Alt. A and B for the mentioned training ranges. Alt A would encompass 921ac land and 4,439 ac of Pacific occan for the SDZ. Alt. B would require 1,129 sc of land, and sea training ranges and SDZ.	Though the candidate sites were eliminated, SDZs for the two alternatives encrosed on private lands and on state waters. FEIS should address how it will mitigate the restricted access. The FEIS must also identify habitat that would be removed and compensate.
J-018	- 104 159	2	22-68		2.2.1.1	GDAWR	Proposed Facilities – ACE Boddown. A biosecurity Plan is mentioned that will address invasive species concerns with ACE.	The FEIS should address how the biosecurity plan will be fully funded to implement mitigative actions throughout the region to prevent the spread of invasives associated with the increase in traffic.
J-018	105 160	2	22-76		2.4.2	GDAWR	Alternative Analysis: Airfield Functions: Four sites were considered and Andersen AFB was determined to be the most suitable for airfield functions.	The FEIS should indicate the total increase in air traffic anticipated by the proposed action.
J-018	106	2	4-130	2	USCG Berthing 4.2.8.3	GDAWR	"Placing of USCG borthing at the Oscat/Papa wherees meets the environmental criterion in comparison to other alternatives as it is further away from Big Blue reef than one of the other alternatives and avoids the Sass Bay Preserve that is adjacent to the third alternative"	The statement recognizes the Sasa Bay Marine Preserve, as an important designated habitat for Guam. It is important that this area is not impacted by the proposed action.
J-018	107 162	2	6-25		Table 6.2.1.	GDAWR	Baseline and proposed flight operations for Andersea AFB. Total flights proposed for 2014 indicate 99,344 flights per year.	The FEIS must address the impacts of the increase in flights on the threatened Mariana Fruit Bat. Are these flights inclusive of the FCLPs?
J-018	108 163	2 .	8-33		Table 8.1.4	GDAWR	Proposed GRN Projects in Central Region	The table contains a list of roadway projects related to DoD activities. The FBIS should identify the impacts to marine and freshwater habitats from the implementation of roadway projects. The FBIS must also identify the monitoring and measures necessary to mitigate impacts.

Page 43 of 135

Thank you for your comment. DoD understands and recognizes the significance of cultural and recreational sites located on DoD property in Guam. Restricting access to certain DoD areas at certain times is required to maintain public safety. It is the intent of DoD to maintain public access to DoD lands that contain cultural sites consistent with safety and operational requirements. Access will be granted at approved times such as when the lands are not being used for military training. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

J-018-103

Thank you for your comment. Impacts to terrestrial habitat are evaluated in Chapter 10 of Volume 2.

J-018-104

Thank you for your comment. Please see response to J-018-098.

J-018-105

Thank you for your comment. The FEIS has been updated to include a discussion of the total increase in air traffic anticipated by the proposed action and impacts for the alternative sites.

J-018-106

Thank you for your comment. Consideration has been given to your suggestion and the document has been modified as appropriate.

J-018-107

		DAWR C	ommen	ts to DEIS/O	EIS Guam and CNN			Page 44 of 135
	GDAW	R-Commer	nts 2-16-2	010	Dr		nent Response Matrix am and CNMI Military Relocation	
	5	Volume	Page	Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	109 164	2	8-5	·	Seculo	GDAWR	Marine Protected Areas - 'The federal government does not acknowledge that the federal submerged lands can be designated GovGuam marine preserves and is not bound to comply with land use constraints associated with the preserves.	DAWR continues to encourage DoD to acknowledge the existence of the Sasa Bay Marine Preserve.
J-018	110 165	2	8-75		Table 8.2-I Summary of Main Cantonment Impacts- Alternatives 1,2,3, and 8	GDAWR	Construction: NI, There would be no impacts due to construction.	Construction includes the removal of vegetation and habitat for T&E species and species of conservation need. The FEIS must compensate for all loss of habitat.
J-018	166	2	9-18	3	9.2.2.1 Non-DoD Land Construction	GDAWR	The acquisition of the lands along Route 15 for training purposes by the Marines would result in climinating access to, and therefore, the use of, the recreational resources situated in the affected area.	Mitigation for loss of access to resources along Route 15 should be addressed. Access to Anno Peint through DoD lands should be identified for access to the recreational resources within the area. The FEIS must outline the method to acquire access and the possible frequency of access.
J-018	- 112	2	9-2		Figure 9.1-1 Recreational Resources of Guam- North	GDAWR	Recreational resources of Northern Guam.	Recreational resources in the Pagat Point, Route 15 Lands are not identified. Guam Raceway Park, hiking trails, fishing spots, cave exploration, and hunting.
J-018	- 113	2	9-32		9.2.8 Summary of Potential Mitigation Measures	GDAWR	Table 9.2-1. Summary of Potential Mitigation Measures. (as written)	Potential mitigation measures identified in Table 9.2-1 do not mitigate for the loss of access to the resources in the Route 15 and other areas affected by the action. The FEIS must identify mitigative measures that reduce the impact of the actions on the users.
J-018	- 114 169	2	9-7		Figure 9.1-4 Recreational Resources Andersen South	GDA WR	Pagat Point area.	Pagat cave was not identified as a recreational resource in the Figure.

Thank you for your comment. Impacts from flight noise are evaluated in Chapter 10, Volume 2.

J-018-108

Thank you for your comment. Volumes 2 and 4, Chapter 11 discuss the potential impacts to Marine Biological Resources, Chapter 6 and 10 address impacts to Water Resources and Terrestrial Biological Resources, respectively from the proposed action.

J-018-109

Thank you for your comment.

J-018-110

Thank you for your comment. Impacts to vegetation and habitat are evaluated in Chapter 10, Volume 2.

J-018-111

Thank you for your comment. Please see response to J-018-102.

J-018-112

Thank you for your comment. Descriptions of the recreational resources on non-DoD properties in north Guam are provided in Volume 2, Section 9.1.2.4 of the EIS as well as Appendix G in Volume 9.

J-018-113

Thank you for your comment. It is the intent of DoD to maintain public access to the cultural and historic sites at Pagat and Marbo consistent with safety and operational requirements. Restricting access to certain DoD areas at certain times is required to maintain public safety. Final plans concerning access to sites potentially impacted by the proposed action have not been developed. DoD looks forward to working with

	GI	DAWR Co	mments	to DEIS/OE	IS Guam and CNM	I Military Relo	cation	Fage 45 01 155
		R-Commen				Comm	ent Response Matrix an and CNMI Military Relocation	
-	#				Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	115	Volume 4	Page	Paragraph	10.2.1.2	GDAWR	For this EIS/OEIS, a major consideration is	The term 'consideration' should be replaced with 'priority conservation action to be
	170		10-2		Determination of Significance		biosecurity.	implemented as part of basic operations within the Pacific'.
J-018	171	4	10-2		10.2.1.2 Vegetation	GDAWR	Impacts would be determined significant if any primary limestone forest (mature forest dominated by mative species) would be cleared, unless determined to be very minor in the context of the surrounding forest areas.	Determination for significant impact to limeatone forest should include all forest types, not restricted to mature forest dominated by native species. All habitat on Guam is essential for native species and any removal is considered significant. Previously disturbed and secondary forest provides important space for the recovery of native species. Guam is a relatively small land mass and land is of premium value.
J-018-	117	4	11-1	2	11.1	GDAWR	I.I. Affected Environment The Jade Shoals site, located to the northwest of Western Shoals and Big Blue Reef,	The DEIS is incorrect in stating that Jade Shoals is located to the northwest of Western Shoals and Big Shoals. Jade Shoals is located to the northeast of Western Shoals and Big Shoals. The FEIS needs to correct this and state that Jade Shoals is located to the northeast of Western Shoals and Big Shoals.

m a principal Channel CNM Military Palocation

stakeholders to develop plans for cultural stewardship and access that balances operational needs, public safety concerns, and the continuing public use and enjoyment of these sites.

J-018-114

Page 45 of 135

Thank you for your comment. Recreational resources in the vicinity of the Pagat Trail, which also includes the caves, are provided in Volume 2, Section 9.1.2.4 of the EIS.

J-018-115

Thank you for your comment. Biosecurity actions are specified in Volume 4, Section 10.2.2.6.

J-018-116

Thank you for your comment. Impacts are considered significant only for removal of primary limestone forest for the vegetation category which does not consider animals. Impacts to animal habitat are evaluated separately under the wildlife and special-status species categories of the analysis.

J-018-117

Thank you for your comment. Text has been revised as stated.

	Γ			10 20 20 20 10	DEIS Guam and CN		nent Response Matrix	Page 46 of 135
	GDAW	R-Comme	ents 2-16-2	010	1	Draft EIS/OEIS Gu	nam and CNMI Military Relocation	
	#	Volume			Location		EIS/OEIS Statement	
18	118	volume	Page	Paragraph	Section	Commenter	ELS/OE/S Statement	GDAWR's Comment
10	173	4	11-1	3	11.1	GDAWR	11.1 Affected Environment This area was dredged in 1946 to allow safe access to the newly completed Inner Apra Harbor.	The DEIS fails to provide any references of a document referring to the 1946 dredging or maps from a document to confirm the areas that were actually dredged. The FEIS needs to provide references of a document referring to the 1946 dredging and a map from a document to confirm the areas that were actuall dredged.
	174	4	11-1	3	11.1	GDAWR	11.1 Affected Environment The clapsed time since dredging of the original channel suggests that much of the coral within the depth zone to be dredged for the aircraft carrier project (-49.5 ff [-15 m] mean lower low water [MLLW] plus 2 ft [0.6 m] of overdredge) is regrowth, which would indicate a community with a maximum age of 62 years (Dollar et al. 2009).	The DEIS fails to scientifically validate whether the coral community and the project area and turning basin is regrowth and fails to scientifically determine the age of the coral community in that area. The only evidence that is used in the DEIS to make these determination is based on dredging that they say occurred in 1946. The FEIS needs to scientifically validate whether the coral community in this area is regrowth and scientifically validate the age of the coral community in this area is
8	- 119 175	4	11-1	4	11.1	GDAWR	11.1 Affected Environment Construction of the aircraft carrier wharf would involve placing fill material in approximately 3.6 acres (ac) (1.5 hectares [ha]) of nearshore and intertidal waters for either alternative.	The DEIS fails to mention what type of fill. The FEIS needs to mention what type of fill will be used.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-118

Thank you for your comment. The exercise the commenter requests is unnecessary as documents from this time period would not be readily available. During the dive surveys, it was obvious to the coral biologists where previous dredge areas started and ended. No text revision.

J-018-119

Thank you for your comment. Although the type of fill is described in Chapter 2, Section 2.3.4.1, Volume 4, text has been added to the EIS in Chapter 11 to describe the type of fill material.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 GDAWR's Comment Location EIS/OEIS Statement Commenter Volume Page Paragraph The DEIS comment is misleading and The project area is previously disturbed; most of GDAWR J-018-120 the coral that would be dredged is marginally to attempts to undervalue the coral reef modestly healthy (Smith 2007; Dollar 2009) and habitat within the project aea. The consists of "re-growth" on the bared reef surfaces photoquadrat method used to that were dredged approximately 60 years ago determine these variables is during the creation of Inner Apra Harbor (Navy inadequate as stated in previous comments. There are coral 11communities and other species on the 11.2.5.2 3 176 shoals and in depths greater than 60 ft. that the DEIS appears to not be taking in account. This statement needs to be revised in the FEIS and an assessment of the corals and other species below the 60 ft, depth needs to be included within the FEIS. The DEIS incorrectly names the Cessation of dredging operations during the period od of 10 by Department. The Guam spawning (7-10 days after the full moon in July) in consultition to f Water Resources with the Guam Department of Water Resources. Table 11.2-16 177 needs to be changed to the Guam 106 Department of Agriculture in the Ships should not be entering Sasa Bay at all. There is increased likelihood of collisions GDAWR No ships would be allowed to enter Sasa Bay at with sea turtles. The FEIS should state that no ships should be entering Sasa Bay. 11-Table 11.2-16 Furthermore, DEIS provides no explanation 178 106 on why the ships need to enter Sasa Bay, the size of the ships, or how far the ships will be

J-018-120

Page 47 of 135

ntering Sasa Bay

Thank you for your comments.

Comment 1. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

Comment 2.

The FEIS was updated as appropriate.

Comment 3.

	R-Commer			EIS Guam and CI	Coma	ocation nent Response Matrix am and CNMI Military Relocation	Page 48 of 135
#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
179	4	11-11	1	11.1.2.2	GDAWR	11.1.2.2 Coral and Coral Reef Community Data As described later in this chapter, the 656 ft (200 m) distance represents a gross overestimate of the projected indirect impact area, and allows for collection of baseline data at the associated patch reef and shoal areas. As described in the SEI (2009) plume modeling summary discussed later in this chapter (Section 11.2.2.2 and Figures 11.2-2 and 11.2-3), only the area located 39 ft (12 m) beyond the direct dredge impact area is anticipated to receive cumulative sedimentation totaling at least 0.2 inches (in) (6 millimeters [mni]); 0.2 in (6 mm) was established as the cumulative sedimentation threshold for corals.	GDoA disagrees with his statement. The limited indirect impact area doe not represent the area potentially to impacted by dredging. Your review John McManus PhD in Appendix J, Supplemental Aircraft Carrier Maris Surveys, also agrees that the delimited area by no means represent he area potentially to be impacted by dredging. Lessons learned from pervious dredging projects within Apra Harbor, such as Kilo Wharf (Adotgan Point Ammunition Wharf monitering reports 1986) should be applied to the CVN. The FEIS need to take into account indirect impacts that will occur outside of the 656 ft distance and beyond the 60 ft. depth and the lessons learned from previoud redging projects within Apra Harbo
180	4	11-11	4	11.1.2.2	GDAWR	11.1.2.2 Coral and Coral Repf Community Dain There are four large patch recfs (Jade, Western, Big Blue, and the unnamed reef) as shown on Figure 11.1-9.	This statement is misleading because it attempts to exclude mentioning the Middle Shoals and appears to try an minimize its importance. The Middl Shoals patch reef system is just as large as the other patch reefs mentioned. The FEIS needs to include the Middle Shoals as one of the large patch reefs.

The FEIS was updated as appropriate.

J-018-121

Thank you for your comment.

Comment 1.

The 200 meter (m) indirect zone used in the DEIS was based upon discussions with resource agencies which indicated that indirect impacts would be contained within the shallow reef area which is approximately 200 meters from the outside edge of any dredging footprint. Subsequent to discussions with the resource agencies, modeling with appropriate best management practices has indicated that indirect impacts would be limited to 12 m to the outside edge of the dredging footprint; hence, the analysis provides for a 188 m buffer area.

The Navy understands that this generalized zone of indirect impact is not refined sufficiently to address USACE concerns and have solicited the assistance of USACE Environmental Research and Design Center (ERDC). The refined level of indirect impacts associated with the dredging activities based upon additional analysis is anticipated to be greatly reduced.

Observations of sedimentation from Kilo Wharf are inapplicable to proposed dredging for the transient CVN pier because of its location further inside Apra Harbor and its associated reduced wave action. Implementation of BMPs would sufficiently reduce indirect impacts associated with sedimentation.

Comment 2.

Text modified in FEIS as appropriate.

		DAWR Co		Page 49 of 135				
					eation		EIS/OEIS Statement	GDAWR's Comment
	"	Volume	Page	Paragraph	Section	Commenter		
J-018	- 122	4	11-11	4	11.1.2.2	GDAWR	11.1.2.2 Coral and Corai Reef Community Data The project area where dredging would occur (direct impact area) does not contain shallow shoal patch reefs.	This is not a true statement and attempts to mislead people. The direct impact area contains parts of patch reefs such as Jade Shoals, Unnamed Shoals, Middle Shoals, and other unnamed reefs. The FEIS needs to correct this statement and include these reefs and within the document.
	182	4	11-13	7 th and 16 th row	Table 11-1.1	GDAWR	Total dredge area with coral	The DEIS states that the total dredge area with coral for both direct and indirect impacts is 171.78 ac for Alternative 1 and 154.69 ac for Alternative 2. These numbers are inconsistent with what has been stated in the DEIS. The FEIS needs to correct these inconsistencies.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-122

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

- 1. Text and figure have been revised to show five "large shoal" areas and the direct impact area and 200 m coral study area, which is not the same as the indirect impact area.
- 2. The statement in the DEIS is correct. The larger number the commenter refers to is inclusive of the indirect impact areas. The statement in the DEIS (and FEIS) is referring to the direct dredging impact area (i.e. with coral and w/out coral). No text revision necessary.

					MI Military Rela	ent Response Matrix	Page 50 of 135
GDA	WR-Commo	ents 2-16-2	010	1	Draft EIS/OEIS Gu	am and CNMI Military Relocation	
-			Lo	cation			
_	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
183		11-15	2	11.1.2.2	GDAWR	III.1.2.2.Coral and Coral Reef Community Data It is also evident that the area within the project boundaries, as well as within the dredge area boundaries, coes not contain any of the continuous areas of very high cover (20%) coral) that is the dominant cover category on the western margins areas of very high cover (20%) coral that is the dominant cover category on the western margins of the large shoel teefs bordering the project area. While the mapping results indicate that about 10% of coral for both alternatives is in the highest cover class (270%), such areas are not concentrated in any particular biotope or region, but are spread across the dredge zones in relatively low densities, mainly at the edges of the dredge perimeters.	These statements are misleading because it attempts to minimize the value of the coral reef habitat with the project area. The dominant coverage of the large shoal reefs are within the project boundaries and are fairly continuous. The DEIS also fails to take into account the indirect impartate will affect corals below the 60 depth. These statements need to be revised in the FEIS to state. "The ar within the project boundaries, as was within the dredge area boundaries, as was within the dredge area boundaries contains fairly continuous areas of very high cover (>70% coral) that it the dominant cover category on the western margins of the large shoal reefs bordering the project area. The mapping results indicate that about 10% of coral for both alternatives is in the highest cover class (>70%) spread across the dredge zones, mainly at the edges of the dredge perimeters. Furthermore, the impact to corals and other species, such as sponges, below the 60 ft. depth need to be included within the FEIS.

Thank you for your comment. The FEIS includes detailed information on coral coverage in the dredge area.

The 200 meter indirect zone used in the DEIS was based upon discussions with resource agencies which indicated that indirect impacts would be contained within the shallow reef area which is approximately 200 meters from the outside edge of any dredging footprint. Subsequent to discussions with the resource agencies, modeling with appropriate best management practices has indicated that indirect impacts would be limited to 12 m to the outside edge of the dredging footprint; hence, the analysis provides for 188 m buffer area.

The Navy understands that this generalized zone of indirect impact is not refined sufficiently to address USACE concerns and have solicited the assistance of USACE Environmental Research and Design Center (ERDC). The refined level of indirect impacts associated with the dredging activities based upon additional analysis is anticipated to be greatly reduced.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 51 of 135

GDAWR-Comments 2-16-2010

				cation		E1S/OEIS Statement	GDAWR's Comment
# 8-124	Volume 4	Page	Paragraph 7 and 8	Section 11.1.2.2	Commenter GDAWR	In 1.2.2 Community Data However, Big Blue Reef west provides significant ecological function and is sensitive to human induced environmental degradation, thereby meeting two of the four criteria for HAPC designation. The coral habitat expected to be impacted by the proposed situral carrier project currently is, in general, "of marginal to modest ecological value."	The DEIS makes contradictory statements. It states that Big Blue Reef west provides significant coological function, yet in the oex paragraph states that the coral habitat expected to be impacted is of marginal to modest ecological value. This is misleading and is another attempt to minimize or downplay the value of the coral reef habitat within the proposed aircraft carrier project. The statement "The coral habitat expected to be impacted by the proposed aircraft carrier project currently is, in general, "of marginal to modest coological value," needs to be removed from the FEIS. This statement is not in line with 40 CFR Section 1502.1 Putposs, which states that it (meaning the environmental impact statement) shall provide full and fair discussion of the significant impacts etc. A determination is being made within the DBIS on the coral roef habitat based on an inadequate impact assessment. To roiterate corals and other species, such as sponges, below the 60 ft, depth were not assessed by
185	4	11-2			GDAWR	Figure 11.1-1 Bathymetric Map of the Study Area and Proposed Alternatives	the Navy in their trapact assessment. These impacts to corals and other species, such as sponges, below the 60 ft. depth need to be included within the FEIS. Figure 11.1-1 fails to include the name of the reef to the northwest of Jade Shoals that is to be impacted by dredging. The FEIS needs to include the name of of the reef.

Comment Response Matrix
Draft EIS/OEIS Guam and CNMI Military Relocation

Guam and CNMI Military Relocation DEIS/OEIS

J-018-124

Thank you for your comment.

Comment 1.

The FEIS has been modified as appropriate based upon your comment.

Comment 2.

Figure 11.1-1 includes labels on all the reefs with known names. We are not aware of a name for the reef located to the northwest of Jade Shoals.

		R-Comme		nent Response Matrix am and CNMI Military Relocation	Page 52 of 135			
	#			L	ocation			
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	186	4	11-21	1	11.1.2.2	GDAWR	I.1.2.2 Coral and Coral Reef Community Data The coral reefs at the shoal areas and Turning Basin appear to be of marginal to modest ecological value, based upon the eight criteria.	The DEIS makes contradictory statements. I states that Big Blue Reef west provides significant coological function, yet in the nex paragraph states that the coral habitat expected to be impacted in 6 magnial to modest ecological value. This is misleading and is another attempt to minimize or downplay the value of the coral reef babitat within the proposed aircraft carrier project. The statement "The coral habitat expected to be impacted by the proposed aircraft carrier project currently is, in general, "of marginal to modest ecological value." needs to be removed from the FBIS. This statement is not in line with 40 CFR Section 1502.1 Perpose, which states that it (meaning the curvommental impact statement) shall provide full and fair discussion of the significant impacts etc. A determination is being made within the DEIS on the coral reef habitat based on an inadequate impact assessment. To reiterate corals and other species, such as sponges, below the 60 ft. depth were not assessed by the Navy in their impact assessment. These impacts to corals and other species, such as sponges, below the 60 ft. depth need to be included within the FEIS.

Thank you for your comment.

Comment 1. Text in FEIS modified as appropriate to clarify discussion of impacts.

Comment 2. The 200 meter (m) indirect zone used in the DEIS was based upon discussions with resource agencies which indicated that indirect impacts would be contained within the shallow reef area which is approximately 200 meters from the outside edge of any dredging footprint. Subsequent to discussions with the resource agencies, modeling with appropriate best management practices has indicated that indirect impacts would be limited to 12 m to the outside edge of the dredging footprint; hence, the analysis provides for 188 m buffer area.

The Navy understands that this generalized zone of indirect impact is not refined sufficiently to address USACE concerns and have solicited the assistance of USACE Environmental Research and Design Center (ERDC). The refined level of indirect impacts associated with the dredging activities based upon additional analysis is anticipated to be greatly reduced.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 53 of 135

Г				Lo	eation		EIS/OEIS Statement	GDAWR's Comment
	#	Volume	Page	Paragraph .	Section	Commenter		
18	126 187	4	11-21 and 11-23	7 on 11- 21 and 3 on Page 11-23	11.1.2.2	GDAWR	Sediment Effects on Coral and Pre- and Post- Monitoring of Dredging Sediment Effects on Coral Reefs	The DEIS fails to include in these two sections the Adotgan Point Ammunition Wharf monitoring reports (1986). The findings from the reports mainly state that I sediment plume was transported beyond 20 m. The FEIS needs to include in the document a discussion of the sediment plume from the Kilo Ammunition Wharf.
	188	4	11-22	3	11.1.2.2	GDAWR	11.1.2.2 Coral and Coral Reef Community Data Sofonia and Anthony (2008) found that the coral Turbinaria m esenterina on nearshore reefs in the central Great Barrier Reef lagoon	Turbinaria m exenterina should be spelled Turbinaria mesenterina
	189	4	11-26	2	11.1.2.2	GDAWR	Macine Research Consultants (2005) and Smith (2004) have documented well-developed communities of reef corals in the northern portion of the Inner Apra Harbor Channel. Remote sensing using satellite imagery allowed mapping and quantification of the area coverage of the coral cormunities. Integrating the mapped area of coral cover revealed a total area of 3.32 ac (1.34 ha) of sparse coral and 6.8 ac (2.77 ha) of dense coral, for a total area of approximately 10.2 ac (4.11 ha) of coral cover in the Inner Apra Harbor Entrance Channel of Eigens 11.1-14)	The Marine Research Consultants (2005) a Smith (2004) studies and Figure 11.1.14 is inconsistent with the data presented in the DBIS from Dollar (2009). Marine Research Consultants (2005) and Smith (2004) in the DBIS state that there well-developed communities of reef cortain in the northern portion of the Inner Apra Harbor Channel while Dollar (2009) does not mention this well developed community in the DBIS at Why the inconsistency?

J-018-126

Thank you for your comment.

Comment 1.

The 200 meter (m) indirect zone used in the DEIS was based upon discussions with resource agencies which indicated that indirect impacts would be contained within the shallow reef area which is approximately 200 meters from the outside edge of any dredging footprint. Subsequent to discussions with the resource agencies, modeling with appropriate best management practices has indicated that indirect impacts would be limited to 12 m to the outside edge of the dredging footprint; hence, the analysis provides for 188 m buffer area.

The Navy understands that this generalized zone of indirect impact is not refined sufficiently to address USACE concerns and have solicited the assistance of USACE Environmental Research and Design Center (ERDC). The refined level of indirect impacts associated with the dredging activities based upon additional analysis is anticipated to be greatly reduced.

Observations of sedimentation from Kilo Wharf are inapplicable to proposed dredging for the transient CVN pier because of its location further inside Apra Harbor and its associated reduced wave action. Implementation of BMPs would sufficiently reduce indirect impacts associated with sedimentation.

Comment 2.

Text modified in FEIS to correct spelling of this species.

Comment 3.

	iDAWR (omment	ts to DEIS/OI	EIS Guam and CN		ocation nent Response Matrix	Page 54 of 135
GDAW	/R-Comme	nts 2-16-2	010				
#	Volume	Page		ocation	1 0 1	EIS/OEIS Statement	
190	4	11-26	Paragraph	Section 11.1.2.2	Commenter GDAWR	Dollar et al. (2009) evaluated size-frequency of coral colonies from transect photo-quadrats using a built-in function of CPCe software to determine greatest chord length.	GDAWR's Comment The GDoA does not agree with this method. This indicates that coral colony size is measured as the lengt or portion of the colony falling with the quadrat. Length is bounded by the quadrat. The method will overestimate smaller size classes an underestimate larger size classes because corals will not be measured in full. A large coral may appear in two quadrats and allocated to a smaller size class than what it really is.
191	4	11-3	3	Ĭì.I.1	GDAWR	11.1.1.Navy Coral Assessment Methodology Almost all of the approaches detailed in Viefman (2009) rely heavily on expert opicion, which is unlikely to be universally accepted, and consequently, contributes to the adversarial nature of determining the extent and costs of restoration.	The DEIS misquotes Viehman (2009). The FEIS needs to correct the and state "Almost all of the approaches detailed in Viehman (2009) rely heavily on expert opinion which is unlikely to be determined it a universally accepted manner, coutributing to the adversarial nature of determining the extent and costs of restoration.

GDAWD Comments to DESCIONES O 1 CONTROL

While not referring to the particular area of well-developed communities of reef coral identified by Marine Resource Consultants (2004) and Smith (2004), results of the Dollar et al. study described include areas of high coral coverage level. Please refer to Table 11.1-1 in the FEIS.

J-018-127

Thank you for your comment.

Comment 1.

Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

Page 55 of 135 GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 GDAWR's Comment EIS/OEIS Statement The scalloped hammerhead is reported to spawn, although rarely (Navy 2009b), in areas outside the This is incorrect. Anecdotal evidence GDAWR J-018-128 suggests that pupping and not Inner Apra Harbor Entrance Channel (NOAA spawning occurs around in in Sasa Bay and Inner Harbor. The FEIS 11-35 11.1.3 needs to correct this and a study 192 should be conducted to verify this information and included within the FEIS. The DEIS does not provide any The greater variability in fish assemblages evidence or studies to support this among sites within the depth range of 40claim. It is unlikely that previous 60 ft (12-18 m) is likely explained by 11.1.3.1 dredging increased the fish variability previous dredging of many of these sites. 11-36 193 of these sites. The statement needs to be removed from the FEIS.

Comment 2.

Text modified in FEIS to correctly quote the Viehman study.

J-018-128

Thank you for your comment.

Comment 1. Text modified in FEIS as appropriate, and information presented confirmed.

Comment 2. The text in the FEIS indicates that fish assemblages are likely more variable in nature due to the fact that dredging occurred, resulting in patchy and disjointed habitat types. It appears that the commenter has possibly mistaken this statement with an indication that fish species diversity and/or richness are higher due to past dredging activities; this is not what the text in the FEIS is implying.

- 1						MI Military Rel	ent Response Matrix	Page 56 of 135
G	GDAW	R-Comme	nts 2-16-2	010	E	Praft EIS/OEIS Gu	am and CNMI Military Relocation	
	#		r		eation		FIRMONIA A	
<u> </u>		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
13	194	4	11-37	3	11.1.4	GDAWR		The DEIS fails to provide an update report on sea turtles to include number of sea turtles. No methodology on sea turtle surveys is provided for Smith (2007) because the report is not included in the DEI However, a lot of information is use from it. From discussions with the Navy, sea turtle observations were based on incidental sightings during the benthic surveys. In other words, sea turtles were not the main focus of the benthic surveys. They were recorded if they were seen while conducting the benthic surveys. Sea turtles on Guam are usually weary o individuals and will leave when individuals are near. Thus, assessing sea turtles on Guam are a bit of a challenge and incidental sightings are not an appropriate method to assess sea turtles. The DEIS fails to provide an adequate and updated assessment on sea turtles. An adequate sea turtle same and turtles and included in the FEIS. Furthermore, the Smith (2007) report needs not be included in the FEIS. Furthermore, the Smith (2007) report needs not be included in the FEIS.

Thank you for your comment.

The Smith et al. (2007) reference was added to the FEIS as an appendix.

The Navy currently implements standard operation procedures, mitigation measures and BMPs that consider federally protected species and their well-being. The Navy has co-existed with sea turtles in the Harbor for over 60-years. The Navy, in a partnership with the Fish and Wildlife Service, monitors sea turtle activities within Apra Harbor and around Guam. There are no records of sea turtles nesting on beaches within Apra Harbor that would be impacted by the proposed action and there have been no reported observations of sea turtles grazing within the area to be dredged. The Navy will also implement mitigation measures and BMPs during in-water and land-based construction activities (i.e. dredging and wharf construction) to lessen any potential impacts to sea turtles and sea life in general. Additionally, the Army Corps permit will require measures to protect biological resources. These measures may include the following: biological monitors on vessels (making sure sea turtles and dolphins [although rare in Apra Harbor] do not approach the area); halting of dredging activities, if these animals enter the buffer zone, until the sea turtle and/or dolphin voluntarily leave the area, low lighting, and as described above, joint Navy/Guam Resource Agency monitoring of nesting beaches though out Guam, to name a few.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Comment Response Matrix

Page 57 of 135

Draft EIS/OEIS Guam and CNMI Military Relocation

-				eation		EIS/OEIS Statement	GDAWR's Comment
#	Volume	Page	Paragraph	Section	Commenter		
195	4	11-37	3	11.1.4	GDAWR	A cooperative effort between the Navy and pressures egencies is ongoing for monitoring sea surtle needing activity, however tagging programs and density information for sea turtles in Apra Harbor is deficient.	A cooperative effort between the Navy and resource agencies is currently almost non-existent for monitoring sea turtle nesting activity. It is difficult for GDAWR staff to access sea turtle nesting areas in Navy property. Navy does not provide funding to the GDAWR for sea turtle work. No information is provided to the GDAWR on sea turtle nesting in Navy property. The FEIS needs to clarify the statement and state that the Navy needs to make an effort to cooperatively work with the resource agencies for monitoring sea turtle nesting activity.
196	4	11-39	1	11.1.4	GDAWR	Historic records of son turtle nesting include a hawkohil reported at a beach near Sumay Cove in 1997, and a general report of nesting at a beach near the Sea Planne Ramp (COMNAV Marianas 2007a) (refer to Figure 11.1-18.)	The DEIS makes an inaccurate statement. The nest at Sea Plane Ramp is not considered historical as this happened within the last 2½ years. Sea turtles usually return to nest every 3 to 5 years. The FEIS needs to state that nesting at Sea Plane Ramp is not a historic sea turtle nesting site.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-130

Thank you for your comment. See previous response to this duplicate comment.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

17.1.1

Comment Response Matrix
Draft EIS/OEIS Guam and CNMI Military Relocation

Apra Harbor, Guam (Smith 2007).

Volume 9, Appendix J.

scientists and the reviews are included in

GDAWR-Comments 2-16-2010

199 4 11-4

Volume | Page | Paragraph | Section EIS/OEIS Statement GDAWR's Comment Commenter 11.1.1 Navy Coral Assessment Methodology. This report was peer reviewed by eight scientists and these reviews are also in Volume 9, Appendix J. J-018-131 The document fails to provide information on the reviewer's experience in general, or as it pertains to coral reef impact assessments and the Habitat Equivalency Analysis (HEA). Many of the reviewers may 11-4 2 11.1.1 not have any experience or expertise with coral reef impact assessments and HEA and may not be giving accurate comments. The FEIS needs to provide the reviewers experience and expertise to validate their comments. ILL. I Navy Coral Assessment Methodology Ecological Assessment of Stony Corals and Associated Organisms in the Eastern Portions of GDAWR The DEIS fails to include this report 198 11-4 11.1.1

as an appendix. The FEIS needs to include this report as an appendix. 11.1.1 Navy Coral Assessment Methodology This document was peer reviewed by eight renowned coral

The document fails to provide any information on the reviewer's experience in general, or as it pertains to coral reef impact assessments and the HEA. Many of the reviewers may not have any experience or expertise with coral reef impact assessments and HEA and may not be giving accurate comments. The FEIS needs to provide the reviewers experience and expertise to validate their

Page 58 of 135

J-018-131

Thank you for your comment.

Page 59 of 135 GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 GDAWR's Comment # Volume Page Paragraph Section **EIS/OEIS Statement** Commenter **GDAWR** The DEIS only took into account The indirect impact areas would be affected at J-018-132 model runs at the most for 24 hours of varying degrees from sediment accumulation. The dredging. The DEIS states on page assessment of indirect impacts is a substantial overestimate of the actual indirect impact and 11-49 of Volume 4 that total dredging based on a 656 ft (200 m) buffer zone. The actual operation is expected to last 8 to 18 indirect impact area would be a much smaller area than that based on the 40 ft (12 m) cumulative months to complete the entire proposed action based on dredging 24 sediment deposition modeling. hr/day. How can you predict the transport and impacts of the sediment During initial meetings with the agencies to determine the extent of the study area, the Navy plume to the coral reef ecosystem suggested a 100 m "buffer zone" beyond the dredge footprint. USFWS suggested making it 200 based only on a 24 hour duration. The DEIS fails to take into account m, which was agreed upon by the Navy. It is important to note that there was no actual basis for the effects of sediment for longer periods of dredging. In order to this number in terms of indirect impacts; it was simply to define a survey area that could encompass any potential indirect effects. It is in no way connected to the 40 ft (12 m) buffer that predict the transport and effects of sediment plume on the coral reef ecosystem, model runs need to be comes from the SEI (2009) cumulative plume modeling. It evolved into the "Indirect" impact conducted for longer durations. This analysis needs to be conducted and area only because no one ever suggested that it be 200 11-49 6 and 7 11.2.2.2 anything else, and that it can be stated with high included into the FEIS. certainty that it is indeed very conservative (Dollar 2009). These two paragraphs in the DEIS are conflicting. The first paragraph states that the 200 m buffer zone is an overestimate. Then in the second paragraph it states that the buffer zone (indirect impact area) is very conservative. The FEIS needs to clarify if the indirect impact area is conservative or not. GDoA agrees with the DEIS that the 200 m buffer zone (indirect impact area) is conservative. From previous dredging projects within Apra Harbor

Guam and CNMI Military Relocation DEIS/OEIS

J-018-132

such as Kilo Wharf (Adotosa Point

Thank you for your comments. USACE ERDC is running their own model and will be compared with the Navy's. Text has been changed; however, the 200 m "buffer zone" was conservative in the sense that models show a maximum effect of 144 ft (44 m).

\Box	DI WIC	ATHILICITY OF THE PARTY OF THE	a to DEIS/O	EIS Guam and CN		ocation nent Response Matrix	Page 60 of 135	
GDAW	'R-Commer	nts 2-16-2	010			am and CNMI Military Relocation		
a	Volume	I D	Paragraph	ocation		EIS/OEIS Statement	GDAWR's Comment	
	Vosatne	rage	Paragrapa	Section	Commenter		GDAWR'S Comment	
201	4	11-49	9, 10, and 11	11.2.2.2	GDAWR	The following summarizes the direct and indirect impaces to corals from Alternative 1 actions (Table 11.2-1): Areas with the greatest coral abundance (>70 to < 90%) would comprise the smallest portion (10%) of the total coral coverage category that would be lost due to proposed dredging. Areas with the learn amount of coral coverage (0 < 10%) of the total coral coverage (0 < 10%) would comprise the largest portion (approximately 36%) of the total coral coverage category that would be lost due to proposed dredging. About 62% of the area proposed for dredging contains corals with a coverage of less than 30%. Approximately 3% of the total area proposed for dredging contains corals in the 70-90%, coverage category and 10% for the 50-90% range of coverage.	The DEIS fails to take into account corals and other species, such as sponges, greater than the 60 ft. dep These impacts to corals and other species, such as sponges, below the 60 ft. depth need to be included within the FEIS.	
202	4	11-50	1	11.2.2.2	GDAWR	The total area impacted is about 172 ac (69.52 ha), which includes direct and indirect impacts of 72 ac (28.80 ha) and 101 ac (40.71 ha), respectively. This equates to a percent coral cover impact of 42%, which includes direct (35%) and indirect (46%) impacts of the total area affected, respectively.	The DEIS fails to take into account corals and other species, such as sponges, greater than the 60 ft. dept These impacts to corals and other species, such as sponges, below flow 60 ft. depth need to be included within the FEIS. Also, does the DE take into account the coral reef at the mouth (entrance) of the inner harbo The FEIS needs to take into account these corals also.	

Thank you for your comment. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 61 of 135

Draft EIS/OEIS Guam and CNMI Military Relocation

- 1	-	#		Loc	ation		EIS/OEIS Statement	GDAWR's Comment
- 1	#	Volume	Page	Paragraph	Section	Commenter		
18	203	4	11-50	4	11.2.2.2	GDAWR	Indirect impact analysis, as described certifer, assessed a 656 ft (200 m) buffer zone. It important to restate that there is no basis for the 200 m buffer zone in relation to the indirect impact area, which is in no way connected to the 40 ft (12 m) actual indirect impact zone (SEI 2009). However, it can be stated with high certainty that the buffer zone is indeed very conservative (Dollar 2009).	GDoA agrees that the 200 m buffer zone is very conservative as stated it Dollar et al. (2009) because the sediment plume has the potential to be transported outside the 200 m buffer zone. This is consistent with the findings from the Adotgan Point Monthly Monitoring Reports (1986) The findings from the report state th the sediment plume was transported beyond 200 m.
	204	4	11-51	4	11.2.2.2	GDAWR	SEDIMENT DEPOSITION MODELS. The Current Measurement and Numerical Model Study for CVM Berthing (SEI 2009) is included in Volume 9, Appendix E, Section E.	The DEIS cely tock into account model ru in the most for 24 hours of freeding. The DEIS states on page 11-49 of Volume 4 th total dreedings operation is expected to last to 18 months to complete the entire propso action based on dreding 24 bridsy. The findings from the Adotgan Point Amutunit Wharf monitoring reports (1996) state that the sediment plume was transported beyon 200 m. How can you predict the transport and impacts of the sediment plume to the coral reef ecosystem based only on a 24 he duration. The DEIS fails to take into account the effects of sediment plume on the coral reef ecosystem based only on a 24 he duration. The DEIS fails to take into account the effects of sediment plume on the coral reef ecosystem, model runs need to be conducted for longer durations. This anal needs to be conducted and included into the FEIS.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-134

Thank you for your comment. The 200 m is conservative in the sense that anticipated sediment effects are expected out to 144 ft. (44 m) based on models being verified by USACE ERDC. Text has been revised to state these anticipated impact areas (e.g. 12 m = adverse effect and 44 m = less than significant effect). See response to previous comment.

GDAV	R-Comme	nts 2-16-26	210	ı	Comm Draft EIS/OEIS Gu	nent Response Matrix am and CNMI Military Relocation	Page 62 of 135
#			Lo	eation			
	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
205	4	11-52	2	11.2.2.2	GDAWR	Sili curtain effectiveness was simulated based on 145 days of TSS measurements inside and custide of the all curtain deployed for the Alpha-Bravo Wharves dredging project in Inner Apra Harber. These measurements shawed that the silt curtains retained 90% of the material inside of the curtain retained 90% of the material inside of the curtain Model computed TSS levels compared well with the Alpha-Bravo Wharves project measurements outside the silt curtain.	1. The findings from the Adolgan Point Ammunition Wharf monitoring reports (1986) state that the sediment plume we transported beyond 200 m. 2. The DEIS fails to state when these 145 days of TSS frassurements were taken and if TSS measurements were taken and if TSS measurements were taken and if TSS measurements were taken druing a time period when wind speeds are generally weak or all the TSS measurement data were not used then the results of the model would not reflect the true effectiveness of the all curation. The linear Apra Harbor is more protected that the curation of the model would not reflect the true effectiveness of the two areas may not be comparable. 3. TSS measurement for the Kilo Wharf dredging project should have been used as well to compare the effectiveness of the silt curtain. 4. As stated, the model was only run at most for 24 hriday of dredging when the CVM dredging is to last to 18 months. This could impact the effectiveness of the silt curtain. 5. The FEIS needs to a) state the time period when the 145 days of TSS measurements of Alpha-Bravo were taken and if measurements were taken for longer than 145 days, b) use TSS measurements from the Kilo Wharf Project, and c) run the model for longer taken and thriday of dredging.

Thank you for your comment. The Navy is aware of issues involving the subcontractor managing the silt curtain mitigation measures at the Kilo Wharf dredge site. Changes to the height of the silt curtains and some operational changes have been made to correct these issues. However, the Kilo Wharf project and the proposed action occur in very different areas of Apra Harbor. The setting of Kilo wharf is much more exposed to wind and wave action that impact the BMPs and mitigation measures. The proposed action area is anticipated to be less challenging with regard to the Navy's ability to minimize environmental impacts from sediment plumes. The dredging plume models that were run for the Draft EIS were based on high silt curtain sediment retention of 90% observed at other locations in Apra Harbor having similar conditions to the proposed action area.

The USACE ERDC will be verifying the Navy's sediment models by running their own transport models. This information will be incorporated into the Compensatory Mitigation Plan prepared by the Navy post ROD.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-136

Thank you for your comment. See previous responses.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-137

Thank you for your comment. See previous responses.

		R-Commen			IS Guam and CNI	Comm	ent Response Matrix am and CNMI Military Relocation	
	#				Cation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	- 138	Volume 4	Page 11-54	Paragraph 4	11.2.2.2	GDAWR	CUMULATIVE SEDIMENT DEPOSITION MODEL. Possible cumulative sedimentation during the policient was assessed by extrapolating in time and space the daily results, assuming a 24-br dredging operation and dredging production of 1,800 cy (1,376 m3) per day (SEI 2009 Model Cases 6.1 to 6.7).	The DEIS only took into account model runs at he most for 24 hours of freedging. The DEIS states on page I 1-40 of Volume 4 that total dredging operation is expected to last 8 to 18 months to complete the entire proposed action based on develaging 24 hrdys. The findings from the Adotgan Point Ammunition Wharf monitoring reports (1986) state that the sediment plane was transported beyond 200 m. How can you predict the transport and impacts of the sediment plane was transported beyond the certain control of the sediment plane was transported beyond different products the transport and impacts of the sediment plane to the certain Certain Constitution. The DEIS fails to take into account the effects of sediment for longer periods of dredging. In order to predict the transport and effects of sediment plume on the coral reef ecosystem, model runs need to be conducted for longer durations. This analysis needs to be conducted and included into the

Guam and CNMI Military Relocation DEIS/OEIS

J-018-138

Thank you for your comment. See previous responses.

		DAWR	Comment	ts to DEIS/O	EIS Guam and CN	MI Military Rel	ocation	Page 66 of 135
	GDAW	R-Comme	nts 2-16-2	010	1	Comn Draft EIS/OEIS Gu	ent Response Matrix am and CNMI Military Relocation	
	Ħ	Volume	In		ocation		EIS/OEIS Statement	
	_	Volume	Page	Paragraph	Section	Commenter		GDAWR's Comment
J-018	209	4	11-66	7	11.2.2.2	GDAWR	It should be noted that sea turtles have not been observed forniging or resting within the proposed project area during multiple dive surveys performed there; it has been observed to function as a transit area to and from Sasa Bay (Navy 2009d).	This statement is not supported by any evidence or studies conducted within the proposed project area. From discussions with the Navy, sea turtle observations were based on incidental sightings during the benthic surveys. In other words, sea turtles were not the main focus of the benthic surveys. They were recorded if they were seen while conducting the benthic surveys. Sea turtles on Guam are usually weary of individuals and will leave when individuals are near. Thus, assessing sea turtles on Guam are a bit of a challenge and incidental sightings are not an appropriate method to assess sea turtles. The DEIS fails to provide an adequate and updated assessment on sea turtles. An adequate sea turtle assessment needs to be conducted by the Navy with individuals who have experience and are experts with sea turtles and included in the FEIS. The GDoA conducts aerial surveys and part of the survey involves counting the number of sea turtles observed in the water. The GDoA was not asked for this information from the Navy.

Thank you for your comment. The information on sea turtles provided by divers and boat tenders is applicable based on the thousands of hours spent observing on the surface in boats and in the water at these locations. Although specific tracking data for sea turtles would be ideal and provide valuable information, the EIS uses best available data.

Please provide the Navy with studies showing that sea turtles in Guam are more weary of individuals, and that they leave when individuals are near making them more challenging to study than other areas in the Pacific.

Page 67 of 135

GDAWR Comments to DEIS/OEIS Gu	arm and CNMI Military Relocation
ODA WK Commicnes to Describe	Comment Response Matrix
	Draft EIS/OEIS Guam and CNMI Military Relocation
D 4 3341 Communets 2, 16, 2010	

#				cation	Commenter	EIS/OEIS Statement	GDAWR's Comment
	Volume	Page	Paragraph	Section	GDAWR	Due to the distances of Adotgan Point, Kilo Wharf	Seaplane Ramp is not a historic nesting site;
210	4	11-66	9	11.2.2.2	GDAWA.	and the historic Scaplane Ramp nesting areas from the proposed action under Alternative I, it is unlikely that any nesting-related activities would be affected by the action alternatives, including night work and the associated lights and noise.	GDAA reported nesuing only a rive years ago. The FEIS needs to correct this statement and state that Seaplane Ramp is a recent sea turde nesting site. The FEIS needs to include information on the type and power of lights as they may affect nesting activities are unlikely to be affected due to the distances is not adequate.
211	4	11-66	10	11.2.2.2	GDAWR	In summary, the Navy recognizes that there are many on-going and recent past studies of potential noise exposures to sea turtles and other marine species from pile driving actions. Further research and validation of these studies are necessary prior to being able to determine the applicability of methodologies and results to the proposed action within this DEIS.	This is not in line with 40 CFR Section 1502.16 Affected Environment, which states that "The discussion will include the environmental impacts of the alternatives including the proposed action, any adverse environmental affects which cannot be avoided should the proposal be implemented" In other words, the DOD must analyze the full rauge of direct, indirect, and cumulative effects of the preferred alternative, if any, and of the reasonable alternative, if any, and of the reasonable alternative identified in the draft ELS. Obtaining these studies should not require an exorbitant cost and the studies needs to be included in the FEIS as well as the environmental affects.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-140

Thank you for your comment. Please see previous response to these comments.

ĺ		R-Commer			EIS Guam and CN	Como	Page 68 of 135 mment Response Matrix Guam and CNMI Military Relocation			
	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment		
-018	212	4	11-66	10	11.2.2.2	GDAWR	The Navy would continue to monitor these studies and where appropriate, incorporate and apply methodologies, analyses, and results to the ongoing impact analysis to sea turtles from the proposed action. Applicability of these studies would also be coordinated through consultations with the National Marine Fisheries Service. The Final ERNOEIS will contain revised sea turtle impact analysis as developed through this process.	The Navy is implying that it will pick and choose studies that fit its purpose instead of objectively evaluating all adverse environmental affects as stated with 40 CFR Section 1502.16 Affected Environment. This is not in line with 40 CFR.		
	213	4	11-67	2	11.2.2.2	GDAWR	Approximately 5,500 non-native species were recorded in these surveys, of which most remain restricted to Apra Harbor (Paulay et al. 2002). Potential long-term impacts to the marine habitat within Apra Harbor from non-native membalist within the native from non-native membalist within the native from non-native membalist native membalist native from non-native from non-native from non-native from non-native	The number is 85 non-native species. 5500 is the total number of marine species recorded from Guam, both native and non-native. The FEIS needs to correct this inaccuracy.		
	214	4	11-67	3	11.2.2.2	GDAWR	These species are found to be more prevalent on artificial structures than natural reef bottoms (Paulay et al. 2002), thus some non-native species recruitment from the inner harbor area to the new aircraft carrier wharf pilings may be expected. This may enhance the community assemblage and diversity of the area.	Adding non-native species to the habitat does not enhance the community assemblage. Non-natives are shown to be more prevalent on man-made substrates. For this reason, artificial reefs are not a favored choice for mitigation. GDoA is not in favor of adding more substrate that can be colonized by non-native		

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comments.

L - G	DAWRC	omments	to DEIS/OF	IS Guam and CN	Comme	ent Response Matrix	
				D	raft EIS/OEIS Gus	m and CNMI Military Relocation	
GDAW	R-Commen	its 2-10-20)	10				
#				Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
18-142 215		11-68	Paragroph 2	11.2.2.2	GDAWR	The operational indirect impacts would be far less than those modeled for 10 to 24 hours of dredging (Volume 9, Appendix E, Section B of this EIS/OEIS), as the deposition contours do not extend to Big Blue Reef.	1. The DEIS only took into account mod runs at the most for 24 boars of dredging. The DEIS states on page 11-49 of Volume 4 that tool afredging operation expected to last 8 to 18 months to complete the entire proposed action based on dredging 24 hrday. The findings from the Adorgan Point Ammunition Wharf monitoring report (1986) state that the sediment plume or transported beyond 200 m. How can predict the transport and impacts of the sediment plume to the cord treef ecosystem based only on a 24 hour duration. The DEIS falls to take into account the effects of sediment for its private of the plume of the cord freef conducted for longer duration. This analysis needs to be conducted for longer durations. This analysis needs to be conducted and included into the FEIS. 2. The DEIS does not take into account cords and other specie, such as spony below the 60 ft. depth. The FEIS net to take the cords below the 60 ft. depth. The FEIS net to take the cords below the 60 ft. depth. The FEIS net to take the cords below the 60 ft. depth. The FEIS net to take the cords below the 60 ft. depth. This plan is account.
210	5 4	11-69	1	11.2.2.2	GDAWR	However, there may also be additional recruitment potential of juvenile finfish from Sasa Bay to the aircraft carrier wharf as an extended nursery area.	Man-made substrate does not repla mangroves or naturally occurring structure. Again, man-made substrates is favored by non-native species.

Thank you for your comment. Please see previous comment responses. Please also review the HEA and supporting studies provided in Volume 9, Appendix J, for more detailed information regarding the sediment modeling.

Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS is updated to reflect the latest developments in this review.

			- Inches	TO DEIGIO	EIS Guam and CN	VIVII MILITARY REI	ocation	Page 70 of 135
	GDAW	R-Comme	ats 2-16-20	010	1	Draft EIS/OEIS G	nent Response Matrix arn and CNMI Military Relocation	
	9			- 1	ocation			
	,	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
I-018	143 217	4	11-69	3	11.2.2.2	GDAWR	Scasonal disturbances to potentially spawning scalloped hammerhead sharks and high concentrations of adult biggye scad.	If dredging continues for 18 months two pupping seasons of the hammerheads could be disrupted. Likewise, two seasons of recruitmer for the big eye scad.
	218	4	11-71	4	11.2.2.2	GDAWR	Identification of Polaris Point as the least environmentally damaging of the two alternatives considering both construction and operational impacts (further away from Big Blue Reef)	This alternative is closer to the Sasa Bay MPA, increasing the risk of impact to the mangrove and nursery areas found within Sasa.
-018	- 144 219	4	11-71	4	11.2.2.2	GDAWR	Use of appropriate silt curtains and/or other silt containment BMPs to fully enclose areas (maximum extent practicable and within performance levels of curtains) where in-water operations are occurring along with frequent monitoring of their effectiveness to contain suspended sediments.	Silt curtains and other containment plans have already been shown to be not effective at other military dredge sites in Apra Harbor (Kilo Wharf, Inner Harbor channel)
-018	- 145 220	4	11-73	15	11.2.2.4	GDAWR	Cessation of dredging operations during the period of peak coral spawning (7-10 days after the full moon in July) in consultation with the Guam Department of Water Resources (GDAWR).	GDAWR stands for the Guam Division of Aquatic and Wildlife Resources (GDAWR). The FEIS needs to make this correction.
	221	4	11-73	17	11.2.2.4	GDAWR	No ships would be allowed to enter Sasa Bay at night.	No ships should be entering Sasa Bay to begin with. You are increasing the likehood of collisions with sea turtles. The FEIS need to state that no ships should be entering Sasa Bay. Furthermore, DEIS provides no explanation on why the ships need to enter Sasa Bay, the size of the ships, or how far th ships will be entering Sasa Bay.

Thank you for your comment. The EFHA evaluates potential impacts to these PHCRT MUS. The DEIS acknowledges the proximity of both alternatives to sensitive areas and their anticipated impacts.

J-018-144

Thank you for your comment. A number of protective measures would be taken to minimize the distribution of the turbidity plume that would unavoidably be generated by the proposed dredging operations. These measures are noted in Chapters 2, 4, and 11 of Volume 4. Silt curtains are one example of these types of protective measures. Standard turbidity curtains are approximately 20-30 feet (6-9 meters) in length and have a weighted bottom to maintain the effectiveness of the curtain against the movement of currents within the water body. The Kilo Wharf project and this proposed action occur in very different areas of Apra Harbor. The setting of Kilo Wharf is much more exposed to wind and wave action. The proposed action area is anticipated to be less challenging with regard to our ability to minimize environmental impacts.

J-018-145

Thank you for your comment.

- 1. Correction has been made.
- 2. Mitigation will be revised accordingly.

		DAWR Commen			IS Guam and CNM	Comm	ocation cut Response Matrix am and CNMI Military Relocation	Page 71 of 135
	#				Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018		Volume 4	11-75	Paragraph 2	11.2.2.5	GDAWR	The compensatory mitigation is subject to approval by USACE, under the CWA, through the Section 404/10 permit requirements (USACE, USEPA, USFWS, and NOAA 2000).	The DEIS fails to include the Government of Guam Resource Agencies on the list of agencies, sepocially since the impacts will affect their island. The PEIS needs to include the GDoA on the list in addition to the federal agencies because GDoA is responsible for the control of fish, corst, and wildlife on Guam (5GGA Chapter 60 and 63).

Guam and CNMI Military Relocation DEIS/OEIS

J-018-146

Thank you for your comment. The GovGuam Agencies and applicable regulations are listed in Volume 8. The EIS statement the commenter is referring to specifically refers to Compensatory Mitigation, which is overseen by USACE.

		R-Comme				MI Military Rel Comm Draft EIS/OEIS Gu	nent Response Matrix nam and CNMI Military Relocation	Page 72 of 135	
	g				ocation				
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
J-018	223	4	11-75	5	11.2.2.5	GDAWR	To address the concern of USPVS and USEPA that cord cover as a single metric is inadequate, the revised HEA model is based on percent coral cover plus regestiy (horizontal: vertical necessurements) to capture the 3-D complexity of the reef.	I. GDoA does not agree with method used to determine rugosity as mentioned in Appendix I, Assessment of Benthic Community Structure in the Vicinity of the Proposed Turning Basin and Berthing Area for Carrier Vessel Nuclear (CVN) Apra Harbor Guam. This study stated that "LIDAR data are processed to derive reef slope (vertical relief divided by horizontal distance) at each pixel in the scene. Since each pixel has the same horizontal distance, pixels with high slope indicate high vertical relief. A high slope does not mean a high vertical relief. Based on field observations, a high slope can have a low vertical relief. Furthermore, why is Lidar data being used to determine rugosity? Was any groundtruthing conducted to determine if the use of the Lidar data for rugosity was accurate? An in situ method to determine rugosity should be conducted and included within the FEIS. 2. An adequate resource assessment such as the use of an in situ method to determine oral size (size frequency distribution) needs	

Thank you for your comment. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 GDAWR's Comment EIS/OEIS Statemen Paragraph The GDoA is only aware of HEA A HEA was used in other Navy dredging proje GDAWR J-018-148 in Apra Harbor, including Kilo Wharf. being used on one Navy project in Apra Harbor, which is Kilo Wharf. The DEIS comment alludes to the HEA being used on more than one 11.2.2.5 Navy project in Apra Harbor, which 11-76 224 is incorrect. This statement needs to be revised and included in the FEIS to state "A HEA was used in the Navy's Kilo Wharf dredging project in Apra Harbor" The assessment of benthic communities The benthic community assessment CDAWR report assumes a 60 ft (18 m) dredge does not examine effects to communities below 60ft. These depth, which is an overestimate of the proposed dredge depth of -49.5 ft (-15.1 communities will be scriously m) MLLW plus 2 ft (0.6 m) overdredge, affected by sedimentation and physical destruction from dredging in 11.2.2.5 representing an approximately 10-15% 11-76 225 shallower water. An assessment of increase in assessed benthic habitat in the dredged area. For this reason, the total these communities needs to be conducted and should be included dredged area differs from the dredged area provided in Volume 4, Chapter 4. within the FEIS. This analysis focused on the coral habitat expected to be either permanently lost due to dredging or temporarily affected by Soft bottom habitat is important fish sedimentation. Much of the habitat within habitat, and should be included with 11.2.2.5 11-77 2 226 the dredge footprint is unconsolidated soft the HEA in the FEIS sediment with no coral cover (Smith 2007,

Dollar et al. 2009). Soft bottom habitat

was not addressed in the HEA

J-018-148

Page 73 of 135

Thank you for your comment.

- Text has been revised as stated.
- 2. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS is updated to reflect the latest developments in this review.
- 3. The assessment of the soft bottom community was included in the EFHA within the EIS.

				EIS Guam and CN	Comn	ent Response Matrix	Page 74 of 135
GDAW	R-Comme	nts 2-16-2	010	1	Praft EIS/OEIS Gu	am and CNMI Military Relocation	
#	Volume	Page		ocation		EIS/OEIS Statement	
	Volume	rage	Paragraph	Section	Commenter	Eas/OEas Statement	GDAWR's Comment
227	4	11-77	4	11.2.2.5	GDAWR	The acreage of coral habitat expected to be affected by dredging, including direct (dredging) and indirect (dredging); and indirect (dredging) and indirect (dredging); and indirect (dredging); and indirect (dredging); and impacts. Based on pixel counts from the remote sensing map, the total area ("plan" view) with any level of coral coverage is about 25.20 ac (10.0 ha) for the Polaris Foint Alternative and 23.74 ac (%) 60 ha) for the Former SRF Alternative in the direct impact area.	1.The DEIS makes an inconsist and misleading statement. It states that the acreage of coral be affected is to include both direct and indirect impacts. However, the next sentence or includes the direct impact are This is misleading to individual who are reading the document 2. The input fails to include impe to corals and other species, sue as sponges, deeper than the 60 depth. 3. Are the corals at the mouth of inner harbor included in the inputs? 4. The FEIS needs to include inputs? 4. The FEIS needs to include inputs? 5. To reiterate, the use of the photoquadrat method to collect data and the use of the coral metric/rugosity for the HEA is inadequate.

Thank you for your comment.

- 1. The statement is correct and is appropriate differentiating between impacts associated with direct coral removal and indirect effects from sedimentation and/or the combination of them both. No text change.
- 2. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS is updated to reflect the latest developments in this review.

3. Yes.

-					IS Guam and CNI	Cemm	ecation ent Response Matrix am and CNMI Military Relocation	Page 75 of 135
	GDAW	R-Commen	ts 2-16-20					GDAWR's Comment
	#	. Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR'S Comment
J-018	228		11-77	7	11.2.2.5	GDAWR	The total area (three dimensional view) of labitat with some coral colverage is approximately 33 ac (13 las) for Alternative 1 Polaris Point, and approximately 32 ac (13 ha) for Alternative 2 Former SRF.	1.This is misleading and appears to minimize the value of the coral reef habitat. The DFIS states that the total area with coral coverage is approximately 71.44 as for Alternative 1 Polaris Point, and approximately 70.95 as for Alternative 2 Former SRF (Table 11.1-1). The FEIS needs to correct or explain this. 2.To reiterate, a high slope does not mean a high vertical relief. Based on field observations, a high slope can have a low vertical relief. Furthermore, why is Lidar data being used to determine rugosity? Was any groundrusthing down to determine if the use of the Lidar data for rugosity was accurate? An in situ method to determine rugosity should be conducted and included within the FEIS.

- 4. See comment No. 2.
- 5. See comment No. 2.

Page 75 of 135

Thank you for your comment.

- 1. The total dredge area with coral is 25.20 and 23.74 for Alt. 1 and 2 respectfully. The total area dredged is 71.18 and 60.77 for Alt 1 and 2, respectfully. The text and table (11.1-1 and others) have been clarified and revised in the EIS.
- 2. Comment noted. See Volume 9, Appendix J for details. "Ground truthing" was performed at all sites.

	GDAW	R-Comme	nts 2-16-20	010	ı	Comn Praft EIS/OEIS Gu	ient Response Matrix am and CNM1 Military Relocation	Page 76 of 135
	ti			L	ocation			
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	229	4	11-78	3	11.2.2.5	GDAWR	For direct impacts, the HEA assumed an initial 100% loss in ecological services (i.e., the resource suffers a complete loss of ecological function). For indirect impacts, affected habitat is expected to experience an initial 25% loss. This estimate is consistent with the expectation that cumulative sedimentation caused by dredging is expected to be low (i.e. < 0.40 in [< 1 cm]), and the relatively lower sensitivity of dominant corals in the affected area (Porites rus and Porites cylinárica) to such levels of sedimentation.	The HFA does not address the cumulative impacts of exposing these corals to repeated levels of excess sedimentation. This likely will result in a loss rate higher than 25%. An analysis of the exposure to repeated levels of excess sedimentation needs to be conducted and included in the FEIS.
	230	4	11-78	6	11.2.2.5	GDAWR	Step 2 requires a mitigation project and artificial reefs were the mitigation approach used in the HEA. There is a discussion later in this section on the rationale for using artificial reefs.	Artificial reefs are not the preferred mitigation alternative. Artificial reefs do not restore a high percentage of ecological function, and the man- made substrate of artificial reefs will encourage non-native species to

Thank you for your comment.

- 1. A Cumulative Sediment Deposition Model was run and is included in the EIS. Figure 11.2-3 depicts the estimated limits of sediment accumulation exceeding 6 mm (adverse effects).
- 2. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor is one available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

[OAWR Co			IS Guam and CNN	Comm	cation eat Response Matrix m and CNMI Military Relocation	Page 77 01 133
ì	#			Location		Commenter	EIS/OEIS Statement	GDAWR's Comment
	"	Volume	Page	Paragraph	Section		111 June direct amplication	
J-018	231	4	11-83	4	11.2.2.7	GDAWR	This option would be a direct application of a HEA derived artificial reef project in Apra Harbor. The Navy would install an artificial reef in approximately 80+ ft (24.4 + m) of water (to ensure its survival even in a super-typhoon) using one or more agreed upon artificial reef concepts. Reef alternatives may include "Z blocks" (used in Hawaii), Biorock, and Reefballs. Suggestions of other artificial reef options would be welcomed. Placement would be on the harbor floor and would not affect hard substrate. A potential mitigation site would be located within the ESQD are of Kilo Wharf (to prevent the reef from being used as a Fish Aggregation Device that would invite recreational or commercial fishing or diving activities). As part of the artificial reef proposal, the HEA restoration project would include the potential use of transplanted coral as part of its compensation strategy.	Placement of the artificial reef in 80 feet of water ensures a slow rate of recovery due to current and clarify of water in the harbor. The man-made substrate will favor non-native species more than a natural substrate would. Placing the artificial reef in an area inaccessible to the public does not replace lost recreational or subsistence values. GDoA is opposed to the installation of artificial reof as compensation mitigation. The FEIS must identify compensation that restores function (i.e., coosystem, recreation, and subsistence).

Guam and CNMI Military Relocation DEIS/OEIS

J-018-152

Page 77 of 135

Thank you for your comment. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor is one available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

G	DAW	R-Commer	nts 2-16-2	010		Comm Praft EIS/OEIS Gu	ent Response Matrix am and CNMI Military Relocation	Page 78 of 135
Ė	#	Volume			cation		EIS/OEIS Statement	
^ -	_	votanie	rage	Paragraph	Section	GDAWR		GDAWR's Comment
18-11	232	4	11-83	7 and 8	11.2.2.7		Option 1: Artificial Reefs within Apra Harbor or Other Locations Clar and Hixon (1997) found that artificial reefs with structural complexity and other abiotic and biotic features similar to those of natural reefs would best mitigate in-kind losses of reef fish populations and assemblages from natural reefs-specifically they compared colonization and subsequent assemblage structure of reef fishes on correl and artificial (concrete block) reefs where reef size, age, and isolation were standardized.	I. The DEIS provides no evidence for the use of artificial reefs to replace lost ecosystem function and services. One reference is provided in the DEIS, which is Carr and Hixon (1997). This paper evaluated the role of artificial reefs as a functional replacemer of natural coral reefs. GDOA supports the use of in-lie fee as the preferred mitigation a watershed restoration and management as the alternative mitigation. GDoA does not support artificial reefs as an option of mitigation because it does not replace the lost ecosystem functions.

Thank you for your comment. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor is one available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

	G	DAWRC	omments	to DEIS/OE	IS Guam and CN!	MI Military Relo	cation	Fage /9 01 155
		DAWKO	Olimento	to DEAD OF		Commo	ent Response Matrix	
	ļ				D	raft EIS/OEIS Gua	am and CNMI Military Relocation	
	GDAW	R-Commen	ts 2-16-20	10				
				Lo	cation		EIS/OEIS Statement	GDAWR's Comment
	#	Volume	Page	Paragraph	Section	Commenter		The statement is inconsistent with
J-018	233	4	11-83	9	11.2.2.7	GDAWR	Suggestions of other artificial reef options would be welcomed. Placement would be on the harbor floor and would not affect hard substrate. A potential mitigation site would be located within the ISOO are of Kilo Wharf (to prevent the reef from being used as a Fish Aggregation Device that would invite recreational or commercial fishing or diving activities).	The statement is inconsistent with available evidence that suggest that artificial reefs aggregate existing reef stocks (Pears and Williams 2005). Fish Aggregating Devises are defined as permanent, semi-permanent or emporary structures or devices made from any material and used to lure fish. Just because recreational or commercial fishing or diving is restricted or not allowed at the artificial reefs does not mean that they are not fish aggregating devices. Whether the artificial reef is placed within the ESQD or not, the artificial reefs with still serve as fish aggregating devices. To reiterate, GDoA does not support artificial reefs as an option for mitigation because it does not replace the lost ecosystem functions.

J-018-154 Thank you

Page 79 of 135

Thank you for your comment. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor is one available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

GDAW	/R-Comme				MI Military Rel Comm Praft EIS/OEIS Gu	Occation Page 80 of 135 ment Response Matrix nam and CNMI Military Relocation		
#				eation				
	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
234	4	11-83	9	11.2.2.7	GDAWR	As part of the artificial reef proposal, the HEA restoration project would include the potential use of transplanted coral as part of its compensation strategy.	A review of coral compensatory mitigation for coral reef impacts in the Pacific Islands indicated that cet transplanting was not effective as compensatory mitigation (Bentivog 2003). Rojas et al. (2008) transplanted corals in Guam from Inner Apra Harbor to Sunnay Moun The results indicate that Porites rus performance was better with approximately a 93% survival rate: compared to P. cylindrica with approximately a 23% survival rate. However, the study was only a 18 month study and does not demonstrate the long term effectiveness of coral transplanting. Guam in regard to compensatory mitigation. The survival rate for bo corals has probably decreased after months. The GDoA recommends the FEIS state that coral transplanting be conducted as a best management practice and corals from the dredge area be provided to the GDoA for educational and scientific purposes. Any corals given to entities besides the GDoA will be in violation of \$65601 of 5CCA.	

Thank you for your comment. Comment on coral transplanting is noted.

A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor is one available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

	GI	AWR Co	mments	to DEIS/OE	IS Guam and CNA	II Military Relo	eation	Page 81 of 135						
		Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010												
	#				cation	Commenter	EIS/OEIS Statement	GDAWR's Comment						
J-018	- 156 235	Volume 4	11-84	Paragraph 2	Section 11.2.2.7	GDAWR	Option 2: Watershed Restoration and Management	GDoA supports the use of In-lieu fee as the preferred mitigation and watershed restoration and management as the alternative mitigation.						
	236	4	11-85	3	11.2.2.7	GDAWR	The watershed area on the figures is approximately 4,694,980 ac (1,900,000 ha) along the southwestern coast of Guam, extending from south of Naval Base Guam to the southern point of Guam and Cocos Island.	The DEIS states an inaccurate number regarding the acres of watershed area along the southwestern coast of Guam. The total land area of Guam is 544 sq km (The World Factbook 2009) or approximately 135,000 acres. Errors of this magnitude call into question the validity of other figures used in this DEIS. The correct acres of watershed area along the southwestern coast of Guam need to be recalculated and included within the FEIS.						

Page 81 of 135

Thank you for your comments and bringing this to our attention.

- 1. Comment noted regarding GDoAs support of watershed restoration and management.
- 2. As stated in the EIS, this information was provided directly for inclusion in the EIS by the Guam Bureau of Statistics and Planning (BSP 2009). It is pertinent that Guam agencies work together and provide correct information to the Navy. Survey's are being performed to accurately assess the areas. The Navy will recalculate BSPs estimates of the watersheds as the citation provided (The World Factbook 2009) is questionable. GIS data and drainage area information from WERI will be used.

		DAWR C	omment	s to DEIS/OE	IS Guam and CN	MI Military Rel	ocation	Page 82 of 135
		R-Commer				Comp	aent Response Matrix nam and CNMI Military Relocation	Fage 62 01 155
	#	Volume	Page	Paragraph	Section Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018-	237	4	11-85	7	11.2.2.7	GDAWR	A Cetti Finy watershed restoration project was attempted as compensatory mitigation for coral toss at Kilo Mart. Because land use was not totally controlled and management agreements could not be concluded, the project has not been successful.	The DEIS states that the Cetti Bay watershed restoration project has not been successful. This is an unfair and inaccurate statement because the Cetti Bay watershed restoration project is a ten year project and currently the project is only in its second or third year. Logistical issues are more of a concern than control of land. This unfair and inaccurate statement needs to be removed from the FEIS. A conclusion on the success of the Cetti Bay watershed project should be made after the project is completed.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-157

Thank you for your comment. The document has been reviewed and modified as appropriate based upon your comment.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Page 83 of 135

Comment Response Matrix

Draft EIS/OEIS Guam and CNMI Military Relocation

GDAWR-Comments 2-16-2010

- 1	-			Lo	cation		EIS/OEIS Statement	GDAWR's Comment
1	#	Volume	Page	Paragraph	Section	Commenter		1 ()
J-018	238	4	11-90	3	11.2.2.7	GDAWR	Shallow Water Reof Enhancement. This option would include the transplanting of a significant quantity of coral that would be removed by the proposed dredging project.	A review of coral compensatory mitigation for coral reef impacts in the Pacific Islands indicated that coral transplanting was not effective as compensatory mitigation (Bentivoglio 2003). Rojas et al. (2008) transplantied corals in Guam from Inner Apra Harbor to Sumay Mound. The results indicate that Porties rus performance was better with approximately a 93% survival rate as compared to P. cylindrica with approximately a 23% survival rate. However, the study was only a 18 month study and does not demonstrate the long term effectiveness of coral transplanting on Guam in regard to compensatory mitigation. The survival rate for both corals has probably decreased after 18 months. The GDoA recommends that the FEIS state that coral transplanting be conducted as a best management practice and corals from the dredge area be provided to the GDoA for educational and scientific purposes. Any corals given to entities besides the GDoA will be in violation of \$65601 of 5GCA.

J-018-158

Thank you for your comment.

		R-Commer			IS Guam and CN	Page 84 of 135		
	a	Volume			cation		EIS/OEIS Statement	
		Votume	Page	Paragraph	Section	Commenter	Els/OEIs Statement	GDAWR's Comment
)18	239	4	11-90	3	11.2.2.7	GDAWR	Stadies have shown that larger intact colonies survive transplanting much better than small or fragmented colonies. Larger colonies also have far greater reproductive potential than small ones.	The DEIS states that studies have shown that larger intact colonies survive transplanting much better than small or fragmented colonies. However, the DEIS fails to provide any evidence supporting this statement. The FEIS needs to include the property of
	240	4	11-90	5	11.2.2.7	GDAWR	Constal Water Resource Management – Upgrode Wastewater Management Systems. This option would involve upgrading Guam Teathmen plants and ocean outfalls to have secondary treated effluent to improve coastal water quality that would in turn enhance coral health in the coastal zone of Geam.	the studies. The DEIS fails to provide any evidence that upgrading the wastewater management system wireplace lost ecosystem functions an services. Infrastructure improvements should not be considered as mitigation for loss of natural resources. Upgrading Wastewater Management Systems will mainly improve public health related issues. Human health and natural resource loss are two differences for mitigation.
	241	4	11-91	4	11.2.3	GDAWR	11.2.3 Alternative 2 Former SRF	All concerns expressed for the Polar Point alternative are the same for th former SRF alternative. The only exception is the proximity to the Sa: Bay MPA.

Thank you for your comment.

- 1. The FEIS will contain additional information regarding potential projects for compensatory mitigation. The compensatory mitigation plan will not be ready until post ROD, however the Navy will continue to work with the USACE and EPA/GEPA and do whatever is necessary to satisfy the requirements of Section 10/404 and Section 401 permit documentation.
- 2. As stated in the EIS, the DoD will be participating in the refurbishment and upgrade of Guam's Northern District WWTP. This action alone will assist the GWA in meeting its coastal water quality standards for the benefit of sea life and people of Guam. How can improved water quality and meeting GWQS (something Guam has not done in 30+ years) NOT benefit the marine biological resources? Improved water quality, be it from upland reforestation (decreasing sedimentation) or an increased efficiency in the treatment of sewage (decreasing TSS, turbidity, chemical constituents, biological organisms [Enterococcus], etc.) is a natural resource benefit.
- 3. Alternative 1 and 2 are very similar. The differences have been identified in the LEDPA discussion.

-	-			cation		EIS/OEIS Statement	GDAWR's Comment
. "	Volume	Page	Paragraph	Section	Commenter		
242	4	11-99	15	11.2.5.1	GDAWR	The coral community to be dredged is not pristine because it itse within an existing navigation claumed that was first dredged during the creation of the Inner Apea Harbor some 60 years ago. Diverveys indicate that overalt coral community composition within the dredge area are of marginal to modest ecological value, beased upon eight criteria (i.e., percentage of sea floor covered by coral, reof complexity and rugosity, species diversity, coral health, size frequency distribution of coral colonies, diversity and abundance of sessile macro-beathos other than corals [e.g., sponges], diversity and abundance of mobile macro-investebrates, and the diversity and abundance of finish).	The DEIS comment is misleading attempts to undervalue the coral rehabitat within the project area. The photoquadrat method used to determine these variables is inadequate as stated in previous comments. There are coral communities and other species on shoals and in depths greater than 6 ft. that the DEIS appears to not be taking in account. This statement needs to be revised in the FEIS and assessment of the corals and other species below the 60 ft. depth need to be included within the FEIS.
243	4	2-10	4	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered, Glass Breakwater, Security/Force Protection A wharf at this location would be vulnerable to attack from ships in the Philippine Sea and difficult to defend.	The DEIS fails to state how it wou be vulnerable and difficult to defer A proper analysis for this alternative needs to be conducted addressing alternative and included in the FEI The rational can be applied to the other locations as well so an explanation is needed. For examp it is just as easy to fire a missile to Glass Breakwater as it is to Polaris Point

CDANIB Comment to DEIS/ORIS Grow and CNMI Military Palacetion

J

3

J-018-160

Page 85 of 135

Thank you for your comment. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

J-018-161

Thank you for your comment. Glass Breakwater juts out into the sea and is further away from the core areas of the base. A location that is more remote presents a greater security concern than those located closer to the inner harbor.

		DAWR C	comment	s to DEIS/OF	EIS Guam and CN			· Page 86 of 135	
	GDAW	/R-Commer	nts 2-16-20	010	1	Coma Draft EIS/OEIS Gu	nent Response Matrix am and CNMI Military Relocation		
		1		L	ecation		T		
	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
018-	1 62 244	4	2-10	6	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered, Glass Breakwater, Environment Extensive fill would be required to provide the amount of shoreside land area for activities and accommodate the movement of more than 5,600 personnel on and off the ship.	The DEIS fails to state how much fi would be required. A proper analysis for this alternative needs to be conducted addressing this reason an included in the FEIS.	
	245	4	2-10	7	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered, Glass Breakwater, Environment Cost, Technology, and Logistics.	The DEIS fails to state what exactly are the cost, technology, and logistic criterion. A proper analysis for this alternative needs to be conducted addressing this reason and included the FIIS. The FIES needs to state specifically what these criterion are.	
	246	4	2-10	11	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered, Glass Breakwater, Environment The site is a great distance from the base, which is problematic for personnel quality of life activities and supply reptenishment.	The DEIS fails to state what this distance is. A proper analysis for th alternative needs to be conducted addressing this reason and included the FEIS. The FEIS needs to state what this distance is.	
	247	4	2-11	7	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered, Dr. Dock Island, Environment Extensive fill would be required to provide the amount of shoreside land area for activities and to accommodate the movement of more finan 5,600 personnel on and off the alter.	The DEIS fails to state how much fi would be required. A proper analys needs for this alternative needs to be conducted addressing this reason an included in the FEIS.	

personnel on and off the ship.

J-018-162

Thank you for your comment. Design level detail was not done for each of the alternatives considered and dismissed. The purpose of screening criteria is to provide an initial test to determine whether a potential alternative is practicable before moving forward. Security/force protection is of utmost concern, and potential locations (such as the Glass Breakwater and Dry Dock Island) that did not meet this criterion had to be dismissed. Thus, a full blown analysis on design detail for these locations, is not warranted.

A formatting error occurred in the DEIS. Cost, Technology, and Logistics should have been shown as an italicized heading not a bullet. This has been corrected. The bullets following this item explain why the location does not meet this screening criterion.

The EIS has been updated to include the approximate distance from base amenities.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Page 87 of 135

Comment Response Matrix

Draft EIS/OEIS Guam and CNMI Military Relocation

GDAWR-Comments 2-16-2010

				Lo	eation		EIS/OEIS Statement	GDAWR's Comment
	#	Volume	Page	Paragraph	Section	Commenter		
J-018	248	4	2-11	9	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered. Dry Dock Island, Cost, Technology, and Logistics The site is a great distance from the base, which is problematic for personnel quality of life activities and supply replenishment.	The DEIS fails to state the distance. A proper analysis needs for this alternative needs to be conducted and included in the FEIS. The FEIS needs to state the distance.
	249	4	2-11	11	2.3.1	GDAWR	2.3.1 Whatf Location Alternatives Cossidered, Dry Dock Island, Cost, Technology, and Locistics The utilities on Dry Dock Island that support Echo and Delta Wharves do not have the capacity to support a carrier.	The DEIS fails to state the utilities on Dry Dock Island. A proper analysis needs for this alternative needs to be conducted and included in the FEIS. The FEIS needs to state what the utilities are on Dry Dock Island, compare the Dry Dock Island utilities that support Echo and Delta Wharves' utilities with its capacity to support a carrier.
	250	4	2-11	13	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered. Dry Dock Island, Cost. Technology, and Logistics The site would create incompatible uses with existing recreational use of parts of Dry Dock Island.	The DEIS fails to state the existing recreational uses on parts of Dry Dock Island. The FEIS needs to state the existing recreational uses and an analysis conducted showing how it is incompatible.
	251	4	2-12	2	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered, Delta/Fisho Wharves, Operational/Navigational Delta/Esho Wharves were dismissed because the required buffer zones around the aircraft carrier would obstruct harbor traffic.	The DEIS fails to state what the required buffer zones are. The FEIS needs to state what the required buffer zones are.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-163

Thank you for your comment. The EIS has been updated to include the distance from Dry Dock Island to base amenities.

The EIS has been updated to include some information about utilities and recreational uses in the vicinity of Dry Dock Island.

The EIS has been updated to include a description of the security buffers around the aircraft carrier for the Delta/Echo location.

	R-Commer		ts to DEIS/OE	Page 88 of 135			
#	Volume			ation		EIS/OEIS Statement	
_	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
252	4	2-12	8	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered, Sierra Wharf, Onerational/Navigational The width of the narrow channel leading to Inner Apra Harbor would not allow for the minimum buffer distance around an aircraft carrier to be met without obstructing harbor traffic.	The DEIS fails to state what the required buffer zones are. The FEI needs to state what the required but zones are.
253	4	2-13	2	2.3.2	GDAWR	2.3.2 Wharf Alignment, Polaris Point The specifications for an aircraft carrier require an approach clearance area of 600 ft (183 m) extending from the edge of the entire length of the wharf.	The DEIS fails to provide a reference for this specification. The FEIS need to state a reference.
254	4	2-13	2	2.3.2	GDAWR	2.3.2 Wharf Alignment, Polaris Point Survey data indicated there is coral along the outcrop that would have to be removed to provide the 600 ft (183 m) of clearance in front of the wharf at the eastern end.	The DEIS fails to include a report if the survey data. In other words, no evidence regarding the removal of to outcrop is provided within the DEIS The YEIS needs to include a report the survey data.
255	4	2-13	5	2.3.2	GDAWR	2.3.2 Wharf Alignment, Polaris Point There would be additional construction costs to achieve the stability required.	The DEIS fails to state the additional cost. The FEIS needs to state the additional costs.

Thank you for your comment. The EIS has been revised describing the required buffer zones to meet security and force protection reqirements for a CVN at Sierra Wharf that will affect the entrance channel to Inner Apra Harbor. The EIS has been updated to provide a reference for the approach clearance around an aircraft carrier. Evidence regarding the removal of the outcorp for the diagonal wharf alignment at Polaris Point is contained in the cost estimates of dredge material calculations and coral mitigation provided in the CVN Capable Berthing Study (July 2008) which is included in Volume 9 of the Appendices.

The same CVN berthing study provides the estimated costs for both the wharf structure parallel to shore at Polaris Point and the pier structure extending diagaonally offshore. A comparison between the two main pier structures using steel pipe piles shows a difference of roughly \$20.5 million for the additional constructions costs needed to achieve stability for the diagonal pier alignment.

	G	DAWR C	mments	to DEIS/OE	IS Guam and CNM	I Military Relo	cation	Page 89 of 135
		Dirita G				Comm	ent Response Matrix am and CNMI Military Relocation	
	GDAW	R-Commen	ts 2-16-201	0	Dra	III EIS/OEIS Gu	and China minutely recovering	
				Lo	cation		EIS/OEIS Statement	GDAWR's Comment
	#	Volume	Page	Paragraph	Scetion	Commenter	EIS/OEIS Statement	
J-018	- 165	4	2-13	8	2.3.2	GDAWR	2.3.2 Wharf Alignment, Former SRF The second dismissed alignment would also be aligned east-west, but would be recessed into the existing shoreline allowing the dry dock traffic to pass, but this option would excavate significant amounts of existing land area.	The DEIS fails to state the quantity of land that would need to be excavated. A proper analysis needs to be conducted regarding this alternative and included within the FEIS.
	257	4	2-14	5	2.3.3	GDAWR	2.3.3 Channel Options The CVN-Capable Berthing Study (NAVFAC Pacific 2008) assessed three channel alignment options that are applicable to both alternative wharf locations as follows and as shown on Figure 2.3-2.	The DEIS fails to include the CVN-Capable Berthing Study (NAVFAC Pacific 2008) as an appendix. The FEIS needs to include this study to the appendix.
	258	4	2-14	9	2.3.3 Channel Options	GDAWR	2.3.3 Channel Options As shown in Figure 2.3-2, the sharp bend option follows the same location as the existing navigational channel, but the channel would be widened to 600 ft (183 m) to meet the UFC channel width requirements for a nuclear powered aircraft carrier.	The DEIS fails to clarify if the entire existing channel from the channel entrance as shown in Figure 2.3-2 would be widened 600 ft (183 m) or a portion of the existing channel. The FEIS needs to state and show in Figure 2.3-2 what portion of the existing channel needs to be widened 600 ft.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-165

Thank you for your comment. The text has been revised to provide an enhanced discussion of the alternatives evaluated and dismissed, where appropriate. Clarifications have been provided in the text as noted in the comment.

The CVN Capable Berthing Study is already included as an Appendix (See Appendix K).

-	G	DAWR	Commen	ts to DEIS/C	EIS Guam and Ch	MI Military Rel	ocation	Page 90 of 135
-	GDAW	R-Comme	nts 2-16-2	010	1	Comn Draft EIS/OEIS Gu	nent Response Matrix nam and CNMI Military Relocation	1001133
	#				Location		EIS/OEIS Statement	
-	-	Volume	Page	Paragraph	Section	Commenter		GDAWR's Comment
018-1	259	4	2-19	7 and 8	2.3.4	GDAWR	2.3.4 Structural Design While both the sheet pile bulkhead and concrete caissons are used in Apra Harbor, it was determined that a pile supported wharf for this proposed action is preferable for several reasons, including superior seismic performance, less dredging, and less cost. All design options would disturb the same area and have comparable impacts, but there are structural advantages to a steel pile supported wharf as described below.	The DEIS makes conflicting statements regarding environment impacts from design options. It is that a pile supported wharf would require less dredging then it goes to state that all design options wou disturb the same area and have comparable impacts. The DEIS d not objectively evaluate the different design options. The FEIS needs to objectively evaluate the different design options and clarify these conflicting statements. Without objective evaluation, it is impossib to decide on a preferred design option.
	260	4	2-19	10	2.3.4	GDAWR	2.3.4 Structural Design, 2.3.4.1 Steel Pile Supported Wharf This structural design alternative would result in a concrete deck superstructure 90-ft (27-m) wide by up to 1,325-ft (404-m) long, supported by all vertical piling	The DEIS lacks diagrams of the structural designs, lacks figures showing the placement of the concrete and steel piling on the correct environment. Without this information you can't make a determinative would be preferred. The FEIS needs to include the structural designs and figures showing the placement of the concrete and steel piling on the coral reef environmen or add a reference as to where it could be found within the FEIS.

Thank you for your comment. Regarding the structural design options for the wharf structure associated with both alternatives, the EIS in Section 2.3.4, Chapter 2, Volume 4 provides differentiating characteristics between the pile-supported structure, a sheet-pile bulkhead, and the caisson-based wharf structure. The caisson-based design is described as requiring additional dredging than a pile-supported structure and both the caisson-based design and sheet-pile bulkhead design have had a history of poor seismic performance. To provide the EIS reader more detailed information regarding the previous study about the wharf design options, the CVN Berthing Study that is referenced in this section is included in the technical appendix, Volume 9, Appendix K. Clarifications have been added to the text of the EIS to remove any confusing statements.

Figures 2.5-4 and 2.6-4 in Chapter 2, Volume 4 provide the relative wharf locations in plan view relative to the surrounding reef structures. Both figures show the location of the proposed wharfs and as noted in the text, the placement of the fill and pile-supporting structures would occur beneath the wharf deck. More detailed drawings would be developed as the design process becomes more finalized.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 91 of 135

	Draft EIS/OEIS Guam and CNMI Military Relocation
1 1 1 1 Comments 2 16 2010	

G	DAWI	R-Commen	ts 2-16-20	10				
	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
-018-1	261	4	2-21	4	2.3.4	GDAWR	2.3.4 Structural Design, 2.3.4.2 Sheet Pile Bulkhead Sheet pile bulkhead construction has long been considered conomical in many ports and military harbors due to its simplicity, ease and speed of construction,	The FEIS needs to include the structural designs and figures showing the placement of the concrete and steel piling on the coral reef environment or add a reference as to where it could be found within the FEIS.
	262	4	2-21	8	2.3.4	GDAWR	2.3.4 Structural Design, 2.3.4.3 Concrete Caissons Reinforced concrete caissons are widely used for the construction of vertical breakwaters and gravity quay walls	The FEIS needs to include the structural designs and figures showing the placement of the concrete and steel piling on the coral reef environment or add a reference as to where it could be found within the FEIS.
	263	4	2-22	10	2.3.5.1	GDAWR	2.5.5 Dredging, 2.3.5.1 Methodology, Mechanical Dredges Placement of dredged material into open seows that hold the material for transport to an offloading site. The offloading site can be upland or open water with proper permits.	The DEIS fails to state where the offloading site is located. The FEIS needs to include the offloading site o reference in the FEIS where to find this information.
	264	4	2-22	3	2.3.5.1	GDAWR	2.3.5 Dredging, 2.3.5.1 Methodology, Hydraulic Dredgeg Placement of dredged material into upland placement site where dewatering occurs with return flow discharge into receiving water body; loose or fine material is not released into the water oclume, durine transfer of dredged material.	The DEIS fails to state where the offloading site is located. The FEIS needs to include the offloading site or reference in the FEIS where to find this information.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-167

Thank you for your comment. Figure 2.5-5 provides the general cross-sectional details of design for the piling supported structure available at this phase of design and environmental analysis. As noted in Chapter 2, Volume 4, the piling supported wharf structure has the least amount of dredging and is less susceptible to seismic failure relative to the other two wharf structure alternatives including the caisson-based design as noted in Chapter 2, Volume 4. There is no detailed caisson-based design for either alternative at this time and the leading choice design both in cross-section and plan view has been provided for each alternative. The cross-section would be the same for both alternatives and the plan views are shown in 2.5-4 and 2.6-4 for Alternatives 1 and 2, respectively. The Upland Placement Study (2008) has been added to Volume 9, Appendix K which includes information about the offloading sites.

	R-Commer				NMI Military Rel Comm Draft EIS/OEIS Gu	ocation scent Response Matrix am and CNMI Military Relocation	Page 92 of 135
#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
265	4	2-22	6	2.3.5.1	GDAWR	2.3.5 Dredging, 2.3.5.1 Methodology, Hydraulic Dredges Historically, mechanical dredging has been used in Apra Harbor, and would likely be the preferred method. Mechanical dredging is assessed as the environmentally conservative method (maximum adverse impact) of dredging in the EIS/OEIS because it has the greater combined potential for environmental impacts from direct and indirect impacts to coral reefs due to sediment redistribution.	1. The DEIS fails to provide sufficient justification and analysis to use mechanical dredging since it has the great combined potential for environmental impacts than hydraulic dredging. The FEIS needs to include a justification and an analysis for the use mechanical dredging over hydraulic dredging. 2. The DEIS makes a conflicting statement concerning the environmental impacts of mechanical dredging. It states that it is an environmentally conservative method but then i states it has maximum adverse impacts. The FEIS needs to state, "Mechanical dredging is assessed as the least environmentally conservative method"

Thank you for your comment. The differences between the environmental effects of mechanical and hydraulic dredging are discussed in Chapter 2, Volume 4 and Appendix D of the EIS. Mechanical dredging involves use of a clamshell or fixed bucket that excavates the dredge sediment from the harbor floor and then carries the sediment in the full bucket through the water column before lifting the bucket out of the water and placing the dredged sediment in a nearby barge or scrow. During this movement, a small fraction of the collected sediment will escape from the bucket and create suspended sediment in the lower and higher levels of the water column. On the other hand, a hydraulic dredge works solely on the harbor floor and any suspended sediment will emanate only in the lower portion of water column. As a result, the plume of suspended sediment is generally greater with use of conventional clam shell bucket as compared with a hydraulic dredge. However, use of hydraulic dredging is generally limited to soft bottom sediment on relatively flat surfaces. Mechanical dredging, which has historically been used in Apra Harbor, was chosen as the dredging method for evaluating environmental impacts as it presents the most adverse impact scenario.

A sediment plume is an inevitable effect of in-water construction activities. The Navy proposes to minimize sedimentation by using best management practices such as silt curtains and operational controls of dredging equipment. Final mitigation measures for all dredging activities will be determined and agreed upon during the permit phase of the projects.

The intent of "environmentally conservative" was to equate it with "maximum adverse impact." The text has been revised.

GDAWR Comments to DEIS/OEIS Guarn and CNMI Military Relocation Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 GDAWR's Comment EIS/OEIS Statement Volume Page Paragraph Commenter 1) Figure 2.5-1 of the DEIS is GDAWR Figure 2.5-1 Alternative 1 Polaris Point J-018-169 missing the outline of the reef and the reef's name that will be impacted by the dredging right after the bend and right above Jade Shoals. The FEIS needs to include the outline and name of the reef that will be impacted. 2-31 2) Figure 2.5-1 of the DEIS is missing the name of the reef between Western Shoals and Big Blue Reef. It just says reef. The FEIS need to include the proper name of the reef between Western Shoals and Big Blue Reef. GDAWR Figure 2.5-1 illustrates the buoys and The DEIS fails to state where the buoys and range lights will be range lights that would have to be relocated. The FEIS needs to indicate relocated or removed to avoid obstructing 1 2.5.2.1 267 2-36 where the buoys and range lights will the channel. be relocated in a figure. 2.5.3.2 Construction Common to Both Action Alternatives, Dredging Dredging The DEIS fails to state when dredging operations have been modeled as 24 hours will begin. The FEIS needs to state 2-41 2.5.3.2 per day operation for the duration of 6 to 9 when dredging will begin. months, but depending upon dredging efficiency, could last from 8 to 18 months

J-018-169

Page 93 of 135

Thank you for your comment. The reefs to which the comments are referring are not named reefs. The named reefs in the vicinity of the proposed action are identified in multiple figures in Chapter 2, Volume 4 and Chapter 11, Volume 4.

Due to the need to widen and relocate the centerline of the navigational channel and turning basin to support the ingress and egress of the transient aircraft carrier, range lights and mooring buoys locations need to be relocated. Figures 2.5-1 and 2.6-1 identify the needed modifications. The exact locations of the relocated buoys has not been established. Final design of the entrance channel widening and turning basin for either alternative will define the new buoy locations and specify the new orientation of the range lights to support navigational movements in the harbor.

The EIS does not state when the dredging will begin since no specific date has been established. As noted in Chapters 2 and 4, Volume 4, the estimated time to complete the dredging is 8 to 18 months.

		iDAWR C	omment	ts to DEIS/OF	EIS Guam and CN			Page 94 of 135	
	GDAW	/R-Commer	nts 2-16-2	010	1	Comm raft EIS/OEIS Gu	ment Response Matrix uam and CNMI Military Relocation		
	#				ocation		EIS/OEIS Statement		
		Volume	Page	Paragraph	Section	Commenter	E15/OE15 Statement	GDAWR's Comment	
J-018-	170 269	4	2-46	4	2.6.1	GDAWR	2.6 Alternative 2: Former SRF. 2.6.1 Operation 1) Access to the site is from existing primary (Marine Drive and Sumay Drive) and secondary roads (4th Street and Main Street) through Naval Base Guam and into the Guam Economic Development and Commerce Authority (GEDCA) lease area. 2) No decision has been made at the present time in connection with the fluture reuse of the Former SRF lands to include a new lease for commercial ship repair facility purposes beyond the current 2012 lease expiration date.	1) The DEIS fails to show on a map where the GEDCA lease area is located. The FFIS needs to show on a map where the GEDCA lease area is located. 2) The DEIS fails to give a date when the GEDCA lease will expire only a year. The FEIS needs to give a date along with year on when the lease will expire.	

Guam and CNMI Military Relocation DEIS/OEIS

J-018-170

Thank you for your comment. The lease area has been added to Figures 2.5-1 and 2.6-1. The lease expires on October 1, 2012.

	GI	DAWR Co	mments	to DEIS/OE	IS Guam and CNM	I Military Relo	cation	Page 93 01 133
J-018		R-Commen				Comm	ent Response Matrix un and CNMI Military Relocation	
	#	Volume		Lo Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
			2-47	Paragrapa	section	GDAWR	Figure 2.6-1 Alternative 2 – Former SRF	 Figure 2.6-1 of the DEIS is missing the outline of the reef and the reef's name that will be impacted by the dredging right after the bend and right above Jade Shoals. The FEIS needs to include the outline and name of the reef that will be impacted.
	270	4	2-41					Figure 2.6-1 of the DEIS is missing the name of the reef between Western Shoals and Big Blue Reef. It just says reef. The FEIS needs to include the proper name of the reef between Western Shoals and Big Blue Reef.
J-018	- 172	4	2-49	10	2.6.2	GDAWR	2.6.2 Shoreside Structures. Security/Biosecurity, Biosecurity A comprehensive Biosecurity Plan is being developed in cooperation with the USFWS, USDA, USGS, National Invasive Species Council (NISC), the state of Hawaii, the Commonwealth of the Northern Mariana Islands (CNMI), and GovGuam.	The DEIS fails to give a date when the Biosecurity Plan is expected to be completed. The pian needs to be completed prior to the release of the FEIS and included within the FEIS. Furthermore, funds for implementing the Biosecurity Plan needs to be provided by DOI as mentioned in 40 CFR Section 1505.3. This section states that agencies may provide for monitoring to assure their decisions are carried out and should do so in important cases.

- --- - Palacetion

J-018-171

Page 95 of 135

Thank you for your comment. The reef that the commentor notes near Jade Shoals does not have an official name.

This figure has been revised to show the name of the reef (Middle Shoals) between Western Shoals and Big Blue Reef.

J-018-172

Thank you for your comment. A percentage increase of invasive species cannot be predicted with any accuracy and the species that may become problematic are difficult to determine. The Micronesia Biosecurity Plan (MBP) that is being developed in conjunction with the proposed action will provide an analysis. The MBP will also provide inspection recommendations for cargo entering and leaving Guam and will recommend steps to prevent spread of invasive species. The MBP will address all aspects of the potential for the transport of brown treesnake and all potential non-native invaseive species to other Pacific Islands and to Guam due to military activities originating on Guam. The Navy is in ongoing discussions with the U.S. Fish and Wildlife Service regarding specific procedures and requirements for inspections of cargo and these will be incorporated into the EIS. The MBP is being completed in stages. The first stage is the risk assessments and these are scheduled for completion through this summer. The final approved MBP is expected in spring of next year. Because the MBP will not be completed in time for some of the proposed actions, interim measures are proposed and these have been added to the FEIS in Chapter 10 of Volume 2. A commitment to the DoD-related portion of the MBP for all high risk and high priority activities has been added to the FEIS. The plan would be coordinated and discussed with GDAWR as well as other parties and a Memorandum of Understanding or similar agreement with these parties would be sought. Information pertaining to the MBP and general biosecurity issues are discussed in Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species, and in Volume 2, Chapter 11, Section 11.2.2.6 for marine

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Page 96 of 135 Comment Response Matrix
Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 Volume Page Paragraph Section EIS/OEIS Statement GDAWR's Comment Commenter 2.6.3 Construction, 2.6.3.1 Alternative 2 -The DEIS fails to include a report for J-018-173 Specific Surveys of these buildings have the building surveys. Therefore, no been conducted for asbestos-containing results are provided for the asbestos-272 2-53 material, lead-based paint, and PCB-2.6.3 containing material, lead-based paint, containing electrical equipment. and PCB-containing electrical equipment. The FEIS needs to include a report with results for the survey data. GDAWR Figure 2.6-5 Former SRF Dredge Areas Figure 2.6-5 of the DEIS fails to indicate the name of the reef that will 273 2-56 be impacted by dredging and is right above Jade Shoals. The FEIS needs to show the name of the reef in Figure 2.6-5. 2.3 Security/Force Protection The The DEIS is not clear on whether the minimum buffer distance between a minimum buffer distance is 450 ft security threat and a potential naval target (137 m) or not in regard to the wharf is 450 ft (137 m), although the minimum location. Wharf locations are being could be greater depending on the force dismissed if they did not meet the protection conditions. In addition to the minimum buffer distance, however specified minimum distances, the the distance is not clearly stated in the Commander, U.S. Pacific Fleet has 274 2-6 alternatives because it is discretionary authority to determine discretionary. The FEIS needs to separation distances based on site-specific state exactly what the minimum assessments of potential threats. Wharf buffer distance is for the CVN project locations that did not meet security/force and what distance was used for each protection requirements were not of the alternatives. This needs to be considered feasible. stated in this section. Is the minimum buffer distance 450 ft (137 m) or is it

another distance?

species. Volume 2, Chapter 14 (marine transportation) has been updated to include estimated increases of cargo traffic associated with both organic growth and the military buildup.

J-018-173

Thank you for your comment. A reference has been provided for the building surveys and text has been updated to indicate results.

The reef indicated in the comment does not have a name. For clarification purposes, Section 2.3, Volume 4 has been revised to add text to state that the minimum security clearance distance under Alpha and Bravo security conditions is 250 ft (76 m) from the aircraft carrier hull. Under Charlie and Delta security conditions, the minimum distance is 450 ft. (137 m). The Commander, U.S. Pacific Fleet has discretionary authority to change/increase those distances based upon assessments of site specific threats.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 97 of 135

1	Draft EIS/OEIS Guam and CNMI Military Relocation
GDAWR-Comments 2-16-2010	

			Lo	cation		FIS/OFIS Statement	GDAWR's Comment
	Volume	Page	Paragraph	Section	Commenter		
275	4	2-7	2	2.3	GDAWR	2.3 Cost, technology, and logistics Cost, technology, and logistics refers to how expensive the project would be, whether or not there would be technological limitations to project execution, or whether logistically, the project is not feasible due to distance from support facilities, for example. Factors associated with higher project costs could include construction techniques and/or labor or materials. Wharf locations that did not meet the cost, technology, and logistics criterion were dismissed from further analysis.	The DEIS fails to state exactly the cost, technology, and logistics criterion. The FEIS needs to state specifically what these criteria are. For example, what are the cost limitations and what is the minimum distance from the support facilities. None of these are mentioned.
276	4	2-7	11	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered, Guan Commercial Port. Security/Force Protection Location number (3) was dismissed as a potential aircraft carrier berthing option because it would be vulnerable to attack from ships in the Philippine Sea and difficult to defend.	The DEIS fails to state how it would be vulnerable and difficult to defend. A proper analysis for this location needs to be conducted addressing these reasons and included in the FEIS. The rational can be applied to the other locations as well so an explanation is needed. For example, it is just as easy to fire a missile to the Glass Breakwater as it is to Polaris Point

Guam and CNMI Military Relocation DEIS/OEIS

J-018-174

Thank you for your comment. Additional text has been added to these sections for clarification.

		DAWR C	omment	ts to DEJS/O	EIS Guam and CN			Page 98 of 135
	GDAW	R-Commer	ats 2-16-2	010	D	Comm raft EIS/OEIS Gu	nent Response Matrix am and CNMI Military Relocation	X 180 70 01 133
	ğ	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	175	4	2-7	13	2.3.1	GDAWR	2.3.1 Wharf Location Alternatives Considered, Guarn Commercial Port, Operational/Navigational Locations at the port proximal to the channel were dismissed because the required buffer zones around the aircraft carrier would effectively close harbor access to the majority of the available commercial port operations including cargo handling. This is an untenable situation for Guarn, which relies on receiving over 95% of its commodities by sea.	The DEIS fails to state what the required buffer zones are. A proper analysis for this location needs to be conducted addressing these reasons and included in the FEIS.
J-018	278	3	1-1	5	1-3 Decisions to be made	GDAWR	Siting and construction of associated facilities to support training and operations for the Army AMDTF on Guam.	Does Guam have the capacity to support training and operations for the Army AMDTF, in addition to Threatened and Endangered Species Recovery, private civilian build up, private businesses, and other foreseeable development?
J-018	- 177	5	10-11		Table 10.2-2	GDAWR	Percentage of Habitat Type on Guam that is Affected = 0.07% for Overlay refuge, essential habitat for bats and kingfishers, and crow, crow recovery zone.	The FEIS must clarify the Percentage of Habitat type on DoD lands that is affected by the current DEIS and other past projects (including projects prior to 2005, informal consultations and projects only requiring EAs). Table should include all 10sess, including any clearing for roads, borrow pits, etc.

Thank you for your comment. Section 2.3, Chapter 2, Volume 4 provides the specific buffer zone distances for Conditions Alpha and Bravo and Charlie and Delta. As noted in this section, the minimum buffer distance between a security threat and a potential naval target is 450 ft (137 m) under Charlie and Delta security conditions, although the minimum could be greater depending on the force protection conditions. For Alpha and Bravo security conditions, the minimum specified distance is 250 ft (76 m) from the aircraft carrier hull. Additional text has been added with these clarifications.

J-018-176

Thank you for your comment. These factors were included in the planning analysis for Army AMDTF facility/space requirements. Effects on threatened and endagered species are addressed in Chapter 10 of Volume 5.

J-018-177

Thank you for your comment. Collective impacts including percentage of habitat on Guam affected is described in Volume 7. For cumulative impacts DoD determined that review of projects back to 2005 was reasonable. Past actions are accounted for by using the current habitat as baseline to evaluate impacts. Cumulative impacts have been further evaluated in the FEIS.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix
Draft EIS/OEIS Guam and CNMI Military Relocation Page 99 of 135

-			Lo	cation		EIS/OEIS Statement GDAWR's Com	GDAWR's Comment
#	Volume	Page	Paragraph	Section	Commenter		
280	5	10- 11/12		10.2.3.1	GDAWR	Munitions Storage Alternative 1 (Preferred Alternative)Wildlife	Although Volume 2, Section 10.2.2.6 identifies BMPs while removing the actual habitat of the Mariena fruit bat, Mariana crow, and Guam Micronesian Kingfisher, the FEIS must compensate for the loss of 2.3 acres of habitat that will be cleared by this action.
281	5	10-12	1	10.2.3.1	GDAWR	Mariana Fruit Bat: Impacts would be mitigated to less than significant with a suite of mitigation actions as described in Volume 2, Section 10,2.2.6. Construction would be during the day so would result in a less than significant impact from noise and activity.	Mitigation actions should include the compensation of foraging ground lost within the 2.3 ac. There is native vegetation in the area, such as the native cycad, that bats feed on. (applies to other proposed Alternatives i this section).
282	5	10-13	1-3	10.2.3.1	GDAWR	Operation: no impacts to vegetation; less than significant impacts to wildlife and special-status species.	There is no mentioning of impacts to acces to the HMU for non-DoD personnel. The FEIS needs to clarify how unescorted acces to the HMU during operations will be provided, to GDAWR or other ecooperators
283	5	10-14	I	10.2.3.2	GDAWR	Mariana fruit bat: Because construction would occur at night, impacts would be less than significant.	Delete 'night' and insert 'day'. Night work will have a greater than significant impact the fruit bats.
284	5	10-19		Table 10.2-8	GDAWR	No mitigation required for Munitions storage alternatives and weapons emplacement alternatives under Vegetation.	Mitigation should be addressed and implemented for construction of the prefer alternative for the Munitions storage and weapons emplacement. Table 10.2-6 and imdicated SI-M under construction for spec status apocies. Access for recovery of spec will be impacted as well as native vegetatic Impacts to recovery need to be mitigated.

J-018-178

Thank you for your comment.

As currently noted in Chapter 10 of Volume 5, mitigation measures, including compensation for the 2.3 acres of habitat removed, would be included under the mitigation measures described in Volume 2, Chapter 10.

Access restrictions will only be put in place if required for the military mission. If access restrictions are necessary the Navy will work with GDAWR to provide the needed monitoring data.

The wording will be changed to indicate construction would be during the day.

Impacts to vegetation for the munitions storage and weapons emplacement would be less that signficant. This is for vegetation only habitat is assessed separately for wildlife and special-status species. Conservation measures proposed for wildlife and special-status species as specified in Table 10.2-8.

		DAWR	Comment	ts to DEIS/O	EIS Guam and Cl	VMI Military Rel	location		
	i	/R-Comme				Comr	nent Response Matrix nam and CNMI Military Relocation	Page 100 of 135	
	#				ocation				
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
J-018	285	5	10-4	1st bullet point	10.2.1.3	GDAWR	Activities associated with the military expansion (i.e., construction, expansion, renovation, and military training activities) may result in habitat loss and physical disturbance	The DEIS should read 'Activities associated with the military expansion will result in habitat loss and physical disturbance Native wildlife, such as bats and crows, adapted to degraded habitat or habitat dominated with 'Hex. These forest types are just as important than forest dominated with native species. Impacts will be significant and will need to be mitigated.	
J-018	- 180	5	10-4	3 rd bullet point	10.2.1.3	GDAWR	The issue 'of ulmost concern' is BTS interdiction and an effective, enforceable, and fail-proof procedure for inspecting all military cargo, personnel, and equipment entering the CNMI must be instituted. The Navy must sessue funding to austain a 100% inspection rate of all cargo, vehicles, munitions, and household goods.	The issue of utmost concern is not just BTS entering CNMI (and elsewhere). Invasive species netering Guam is of great concern. The FEIS and ROD must state that the Navy shall fland the development and implementation of a sustainable bio-security plan prior implementation of any other sections proposed in the DEIS.	
J-018	- 181	5	10-6		10.2.2.2	GDAWR	Headquarters/Housing Alternative 2.	The FEIS must not include Alternative 2 as a viable alternative as it includes the removal of over 376 acres of habitat in the NavylAirForce Barrigada area. Guarn tree snails were found in this site and the area is important habitat for the Marana fruit bets.	
	288	,	10-7		Figure 10.2-1	GDAWR	Vegetation and Special-Status Species Impacts, Headquarters/Housing Alternative 2- Navy and Air Force Barrigada.	The FEIS should relocate the Army Housing for Alternative 2 to minimize the amount of limestone forest removed. Shifting the location of the HQ/housing to the WSW of Navy Barrigada (dominated with shrub/grasslands and developed lands) will minimize significant impact to limestone forest and Quant tree snail.	

Thank you for your comment. The text referenced are issues identified during the scoping process and do not describe the actual analysis conducted. No changes are proposed.

J-018-180

Thank you for your comment. The DoN is developing a Micronesia Biosecurity Plan (MBP) to address potential non-native invasive species impacts associated with this EIS as well as to provide a plan for a comprehensive regional approach. Brown tree-snake issues are included in the MBP, however, the MBP encompasses other potentially invasive non-native species. The MBP will include risk assessments for invasive species throughout Micronesia and procedures to avoid, minimize, and mitigate these risks. It is being developed in conjunction with experts within other Federal agencies including the National Invasive Species Council (NISC), U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS), the US. Geological Survey (USGS), and the Smithsonian Environmental Research Center (SERC). The plan is intended to be a comprehensive evaluation of risks in the region, including all Marine Corps and Navy actions on Guam and Tinian. The Navy will develop biosecurity measures to address nonnative invasive species issues that will supplement existing practices. For additional information on the MBP and existing and interim measures for non-native invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2, Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-018-181

Thank you for your comment. Alternative 2 is considered a viable alternative but one of the reasons it is not preferred is because of the

Page 101 of 135 GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix Draft EIS/OEIS Guam and CNM1 Military Relocation GDAWR's Comment Location EIS/OEIS Statement Commente The FEIS should relocate the Army Housing Special-status species. Proposed construction GDAWR J-018-182 for Alternative 2 to minimize the amount of activities would impact the Guam tree snail. limestone forest removed. Shifting the location of the HQ/housing to the WSW of Navy Barrigada (dominated with 10.2.2.2 10-8 289 shrub/grasslands and developed lands) will minimize significant impact to limestone forest and Guam tree snail. Removal/ relocation of snails may be Special-status species. Mitigation would include the relocation of spails to another suitable location stressful for the species and result in mortality. The suitable location for the With this mitigation, impacts would be less than species is where they are found as of now. Avoidance of the species shall be the 10-8 10.2.2.2 290 preferred action. By relocating the HQ/housing, WSW in the area, the tree snails will be less impacted. The Mariana fruit bat is known to use Central Other species that are potentially present at Guam, including Navy Barrigada, as a Barrigada have not been documented as present in cerridor between Northern and Southern the proposed Alternative 2 project areas and would Guam. The forest present in Navy Barrigada not be impacted by construction. They will not be holds refuge for individuals making that 10.2.2.2 considered further under this alternative. 291 10-8 journey as a rest spot or foraging ground. The FEIS must address fruit bats further under this alternative. Native wildlife that most likely will use the Operation Wildlife, Operational activities would area is the Mariana fruit bat. The Guam generate noise throughout the area. However, population is less than 100 individuals and is migratory bird species or other native wildlife that would otherwise use the area are common not common. Noise generated by operations 10.2.2.2 will have an impact to bats in the area when 10-8 292 throughout Guam and are generalists that can

utilize numerous habitats that are abundant

throughout Guam.

biological resources present in the area. The Army housing for this alternative cannot be relocated to the southwest because this property in National Guard land.

J-018-182

Thank you for your comment. The Army housing for this alternative cannot be relocated to the southwest because this property is National Guard land. It is recognized that relocation of the tree snails could be stressful and result in mortality. This impact is one reason why this alternative is not the preferred alternative. If this alternative is selected a plan would be developed for movement of the snails and GDAWR would be consulted. The use of Navy Barrigada as a corridor for movement of fruit bats between northern and southern Guam has not been documented in any reports we are aware of. This area is not recognized by USFWS as recovery habitat or recovery habitat for the fruit bat. The discussion cited is for wildlife impacts. A discussion of fruit bat impacts from construction has been added under the Special-Status Species section in the FEIS.

	GDAW	R-Comme	nts 2-16-2	010	D	Comr raft EIS/OEIS Gt	nent Response Matrix nam and CNMI Military Relocation	Page 102 of 135
ı	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
18	183	5	10-8	9	10.2.2.2	GDAWR	Alternative 2 Potential Mitigation Measures: A plan to translocate Guern tree snails to another site on DoD lands would be developed and implemented after approval by the USFWS.	Coordination with GDoA should occur for the mitigation of the Guam tree snail.
18	294	5	10-9		10.2.2.3	GDAWR	Munitions Storage Alternatives	The FEIS should consider the use of existin Munitions Storage as an alternative. There are existing igloes that require refurbishing and renovations to meet required standards. These igloes should be utilized by the AMDIF.
	295		2-15		2.4.3	GDAWR	Four alternatives for the emplacement sites. Detailed information on the weapons emplacements is contained in a Classified Appendix L	All elternatives (1-4) encompass valuable habitat and jeopardize recovery of ES in northern Guam. The preferred Alternative includes "Area 50" which is a valuable conservation area. FEIS should identify how impacts to ES recovery will be compensated
	296	5	2-4	5	2.3.2.1 Administration/HQ and Maintenance Facilities	GDAWR	The administration/HQ and maintenance facilities would comprise approximately 28 acres (ae) (11 hoctars [10] of developed land including a battalion headquarters, company facilities, and tactical vehicle maintenance facilities.	The FEIS must define 'developed land'. Is open grassland or mowed land considered 'developed land'? If See, open grassland (unowed land) is habitat for nigratory birds. The proposed facilities for the Army AMDT should be combined with facilities proposed for the Marines.
	297	J	4-14		4.2.3	GDAWR		The FEIS must indicate an alternate site for munitions storage away from the HMU. Placing ECMs adjacent to the HMU will negate the mitigation site. The anticipased increase in security associated with the ECM will hamper unescorted access to local and federal resource agencies to complete mitigation activities within the HMU as committed to under the Biological Opinion.

Thank you for your comment.

Coordination with GDAWR would occur if tree snails were to be moved.

Endangered species recovery has been addressed under conservation measures. Additional conservation measures being developed in conjunction with the Section 7 consultation with USFWS are being added to the FEIS.

Developed land is defined in Volume 2, Chapter 10. The definition has been updated in the FEIS to include mowed grass areas. Impacts to migratory birds in all areas has been considered under the Wildlife section.

The proposed munitions storage area at Andersen AFB will not impinge on the requirements of the Biological Opinion (BO). Access will be allowed to meet the BO requirements.

J-018-184

Thank you for your comment. Existing munitions storage structures with sufficient size and storage requirements are not available.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 103 of 135

Comment Response Matrix	
Draft EIS/OEIS Guam and CNMI Military Reloc	ation

GDAW	R-Commen	ts 2-16-20	10				
			L	ocation		EIS/OEIS Statement	GDAWR's Comment
#	.Volume	Page	Paragraph	Section	Commenter		
J-018-185	6	12- 15	2	12.2.4.1	GDAWR	<u>BYIMINE</u> . Based on studies by others and observations in other similar races on the former FAA parcel and South Finegayan, the only native bird species likely to be present in the project areas are the yellow birtern and possibly the Pacific golden plover in open areas; both species are unbiquitous throughout Gaarn.	Former FAA and South Finegayan serves refuge for breeding yellow bittems. Mitigation actions will need to be in placed for the species in duration of construction. Construction will not take place if active nesting occurs; construction will continue when the nesting is complete.
299	6	12-33	3	12.2.6.1 Alternative 1: Off Base Roadways	GDAWR	Impacts to vegetation would be less than significant because no primary limestone forest would be removed.	The vegetation to be removed for GRN # 9,10,22,22A, 38A, 39A, 41A, 42A, 57, 12A, 35, and 36, may not be primary limestone forest, however, does provide habitat for withdife. Road expansions to benefit DoD should should be considered as impacting labolist and be included in the total amount o habitat lost when calculating for compensation.
300	6	12-10	1	12.2.3.1 Potable water Alternative 1 (preferred alternative)	GDAWR	Mariana crow: Based on the removal of Overlay Refuge and essential habitat areas, there would be significant impacts to the Mariana crow. This significant impact would be mitigated to less than significant with measures described in Volume 2, Section 10.2.2.	Mitigation measures/BMPs described do not help the species. Any clearing of vegetation in the Overlay Refuge and/or essential habit areas should be compensated. DOD shall compensate the loss of foraging and nesting areas from the construction by reforesting budlands, or rehabilitating disturbed forest in

GDAWR

kingfisher. This significant impact would be

escribed in Volume 2, Section 10.2.2.

mitigated to less than significant with measures

12.2.3.1 Potable

1 (preferred

2

12-10

Alternative

areas from the construction by reforesting badlands, or rehabilitating disturbed forest in adjacent areas to provide more nesting and Mitigation measures / BMPs do not help the Micronesian kingfishers: Based on the removal of species. Any clearing of vegetation in the Overlay Refuge and/or essential habitat areas Overlay Refuge and essential habitat areas, there would be significant impacts to the Micronesian should be compensated. DoD shall compensate the loss of foraging and nesting

foraging areas for the kingfisher.

areas from the construction by reforesting badlands, or rehabilitating disturbed forest in adjacent areas to provide more nesting and

J-018-185

Thank you for your comment.

The FEIS has been updated to note that the area serves as a refuge for breeding yellow bitterns, per your comment. Based on EO 13186 on "Responsibilities of Federal Agencies to Protect Migratory Birds", and the subsequent Memorandum of Understanding between DoD and USFWS signed on July 31, 2006, the FEIS has been updated to note that the DoD would minimize impacts to all migratory birds during the project. Due to the ubiquitous nature of the yellow bittern on Guam per USFWS, DAWR, and other reports and our field observations during project field studies, the proposed removal of habitat is not expected to adversely affect the population of yellow bitterns on Guam.

Removal of vegetation is considered significant if it is primary limestone vegetation. Removal of habitat is considered separately under Wildlife and Special-Status species. Road improvements are in already disturbed corridors except for GRN 124, a connector road at Finegayan. Impacts to rail recovery habitat that has recently been delineated by USFWS in that area has been added to the FEIS.

Conservation measures and BMPs to compensate for impacts to the Mariana crow and Micronesian kingfisher are being discussed in the ongoing Section 7 consultation with USFWS and are to be incorporated in the FEIS.

	G	DAWR C	omment	s to DEIS/O	EIS Guam and CNN	Al Military Rele	ocation	B 444 444	
		R-Commen				Comm	ent Response Matrix am and CNMI Military Relocation	Page 104 of 135	
1 010	#	Volume	Page	L Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
J-018	- 186 302	6	12-10	3	12.2.3.1 Potable water Alternative 1 (preferred alternative)	GDAWR	Guan vail: Proposed construction activities would include the loss of shrubignessland habitat that is potential foraging and nesting habitat for the Guan rail. Because the Guan rail is extirpated in the wild and most of Guan has habitat that is potentially suitable for the recovery of the species, removal of these areas due to construction would result in a less than significant impact.	Andersen AFB's INRMP clearly defines the recovery efforts for the Guarn rail on Andersen proper. The PNRMP and USFWS Recovery Plan for the Guurn rail should be included during the decision making process. Removal of the habitat due to the proposed action will have significant impact to the recovery efforts for the rail.	
	303	6	12-10		Table 12.2.3	GDAWR	Total area removed [ac (ha)]: Overlay refuge = 11(4.5); Bat and kingfisher habitat = 14 (5.7); Crow habitat = 14 (5.7); Recovery zone-crow = 19 (7.7).	The FBIS needs to clearly define the cumulative impact to essential habitat (recovery zones). How much essential habitat remains for the Special-stams species recovery? The amount of habitat removed from this and previous projects has a huge cumunulative impact. The table misrepresents the true impact.	

Thank you for your comment.

USFWS has recently delineated recovery habitat for the Guam rail and this information has been incorporated into the FEIS. Discussion of impacts and conservation measures are ongoing under Section 7 with the USFWS and are being incorporated into the FEIS.

Collective impacts from all proposed actions and cumulative impacts are addressed in Volume 7 of the EIS. Information on habitat remaining for Federal-listed species has been incorporated into the FEIS, Volume 7.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation GDAWR-Comments 2-16-2010 GDAWR's Comment EIS/OEIS Statement Commente Paragraph Comments under Alternative 1 apply for AAFB and Anderson South: Impacts would be the J-018-187 same as those under Alternative 1... for Basic Alternative 2. These are: 1) Any removal of vegetation is significant. All Construction (Vegetation, Wildlife, Special-Status vegetation types are habitat for ES. The wells are located in ES habitat and should be relocated to the 18 ac of developed areas. 2) The table does not clearly define the cumulative impact to vegetation. The table is misleading on the impact to ES recovery. FEIS must define the amount of remaining vegetation for Special-status species recovery. Construction noise and activity will have a temporary and permanent direct impact to fruit bats. Temporary: fruit bats will be forced out of foraging area.

Permanent: fruit bats will no longer forage in 12.2.3.2 Basic the area. Avoiding construction in the area
will minimize impacts to ES. Mitigation
measures described in volume 2, section 12-11 Alternative 2 10.2.2, are BMPs and not compensation for 10.2.2, are BMPs and not compensation for loss of habits. The FEIS must clarify how and when DOD will compensate by reforesting badlands, or rehabilitating disturbed forest in adjacent areas to provide habitat. The FEIS sheuld reference AAFB's INRMF and the USFWS Recovery Plan for the Guam rail when choosing alternatives. Removal of habitat will have significant impact to the recovery efforts for the Guam rail. The FEIS must focus on the analysis of impacts to habitat based on DOD lands.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-187

Page 105 of 135

Thank you for your comment. Removal of vegetation is considered significant if it is primary limestone vegetation. Removal of habitat is considered separately under Wildlife and Special-Status species. Collective and cumulative impacts are addressed in Volume 7 of the EIS. Location of wells and waterlines is conceptual and may be adjusted after additional water supply studies. Disturbance outside existing utility corridors and rights-of-way would be minimized. During construction, monitoring will be conducted and construction would be halted if fruit bats are present. This has been made clear in the FEIS. Permanent impacts due to removal of habitat have been evaluated and conservation measures have been proposed. The Navy is currently in Section 7 consultation with USFWS and various conservation projects are being discussed, in addition to those proposed in Volume 2, Chapter 10 of the DEIS. These are being incorporated into the FEIS.

GDAW	R-Commer	its 2-16-2			Comm raft EIS/OEIS Gu	Deadtoin Page 106 of 135 ment Response Matrix nam and CNMI Military Relocation		
#	Volume	Page	Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
- 188	6	12-12	2	12.2.3.2 Basic Alternative 2	GDAWR	Barrigade. Wildlife; Smaller, less mobile species, and those seeking refuge in burrows, could inadvertently be killed during construction activities; however, long-term, permanent impacts to populations of such species would not result because these species are abundant in surrounding areas and would rapidly repopulate suitable portions of the affocted area.	Populations tend to reach capacity of the habitat they inhabit. Loss of habitat will permanently displace individuals and over population will be impacted. Removal of population of such species (skinks, geckos insacts) can result to increase of pressure I such species in surrounding areas resulting a slow production or lack of availability of prey items for the birds found in or visiting the area as a foraging ground.	
306	6	12-12	3	12.2.3.2 Basic Alternative 2	GDAWR	Barrigada: Therefore, impacts to wildlife due to proposed construction activities at Andersen AFB would be less than significant under Alternative 1.	Sentence must be corrected. Section is regarding Air Force Barrigada and Alternative 2, not Andersen AFB, and Alternative 1.	
307	6	12- 12/13	. 5	12.2.3.2 Basic Alternative 2	GDAWR	Guam tree small: Proposed construction activities would remove 0.5 ac (0.2 ha) of primary limestone forest habitat. This area would be surveyed prior to removal of vegetation and if present, tree snails would be relocated.	Removal of primary limestone forest shou be avoided. If avoidance is impossible and tree snails are present, the translocation of snails would need to be coordinated with GDAWR.	
308	6	12- 12/13	1	12.2.3.2 Basic Alternative 2	GDAWR	Guam tree socil: This area would be surveyed prior to removal of vegetation and if present, tree snails would be relocated.	Removal of primary limestone forest shoul be avoided. If avoidance is impossible and tree snails are present, the translocation of snails would need to be coordinated with GDAWR.	
309	0	12-13		Table 12.2-6	GDAWR	Under Basic Alternative 1 (preferred); No primary limestone forest would be removed. [L.SI].	A total of 16 ac (6.5 ha) of limestone forest will be removed under the preferred Alternative for potable water (Table 12.2-2) The limestone forest is disturbed, however, is important habitat and serves the same purpose as primary limestone forests for ES recovery. The FEIS must define	

Guam and CNMI Military Relocation DEIS/OEIS

J-018-188

Thank you for your comment. Although the land available for occupation by wildlife species would be reduced, populations of all species known to be present (that are not Special-Status species) are high on Guam. Reference to Andersen AFB will be removed. Removal of primary limestone forest cannot be avoided based on all planning criteria under this alternative (which is not the preferred alternative). Any translocation of tree snails would be coordinated with GDAWR. Impact to disturbed limestone vegetation is not considered a significant impact under the vegetation category, however removal of this habitat is considered significant under the Special-Status species category. Conservation measures for removal of this habitat are included in the EIS.

			L	ecation		EIS/OEIS Statement	GDAWR's Comment
#	.Volume	Page	Paragraph	Section	Commenter		100
310	6	12-13	3	12.2.3.3 Summary of Impacts	GDAWR	Impacts would be less than significant to vegetation because no limestone forest would be removed.	Table 12.2-2, 2-3,2-4, and 2-5 summarize the total area removed under each Alternative. These vegetarion communities are habitat to Guam's wildlife. Disturbed linestone forest is as valuable as primary limestone forest. The FRIS must define compensation for all lost habitat.
311	6	12-13	3	12.2.3.3 Summary of Impacts	GDAWR	Impacts to widdle would be less than significant because there would be no diminished population sizes or distributions of migratory birds or regionally important native animal species.	Removal of vegetation will alter the normal behavior of the species found in the project sites. Altering of behavior because of the se of 'force' (in this case 'clearing') is considered as 'take' under ESA or MBTA. Wildlife impacts will be significant due to construction. Population size and/or distribution for most species will be negatively altered as result to the action.
312	6	12-13	3	12.2.3.3 Summary of Impacts	GDAWR	Significant impacts would result from construction of water wells and waterlines at Andersen AFB because some of the areas where they would be placed is Overlay Refuge and recognized essential habitat for the Marisan fruit bat, Micronesian kingfisher, and Marisans crow. These impacts would be mitigated to less than significant with measures described in Volume 2, Section 10.2.2.	The FEIS must identify adoquate compensation for the loss of Owerlay Refug and recognized essential habitat for Special Status Species. Volume 2, section 10.2.2 refers to BMPs and is not adequate compensation of the take of habitat. GDAWR recommends that DoD set aside equal amount of acreage to be used for recovery.
313	6	12-14		Table 12.2-7	GDAWR	Vegetation: (for all Alternatives) None specifically for vegetation.	Mitigation measure must include avoidance of unnecessary clearing of vegetation, avoidance of native tree species such as Cycas marianensis, and DoD must obtain a clearing permit at DoAg.

Guam and CNMI Military Relocation DEIS/OEIS

]-

J-018-189

Thank you for your comment. An impact to disturbed limestone forest vegetation is not considered significant under the vegetation category, however removal of this vegetation type is considered significant under the Special-Status species category because it is potentially valuable habitat. The statement referenced will be modified to note that there are no regionally important native animal species present in the project area (except special-status species) and there would be no significant impact to migratory bird populations. It is recognized that there could be fewer total birds due to the loss of habitat. These determinations are in accordance with the criteria outlined in Section 12.2.1.2. Conservation measures for removal of habitat for Special-Status species is currently being discussed with USFWS under the Section 7 consultation process. Revision of BMPs and conservation measures in the DEIS from this consultation are being incorporated into the FEIS. Clearing of vegetation has been avoided to the extent practicable based on all planning considerations. As noted above, an impact to vegetation other than primary limestone vegetation is not considered significant under the vegetation category, however removal of other vegetation types may be considered significant under the Special-Status species category.

ĺ	VR-Commen			EIS Guam and CN	Comp	Page 108 of 135 ment Response Matrix nam and CNMI Military Relocation		
#				cation				
_		Page	Paragraph	Section Commenter		EIS/OEIS Statement	GDAWR's Comment	
1 90	6	12-14		Table 12.2.7	GDAWR	Wildlife and Special Status Species: (Alternative 1 and 2): At Andersen AFB the construction period would be limited if Mariana crows were present and there would be no work at night to avoid impacts to the Mariana fruit bat.	The FEIS must identify who will be responsible to monitor the presence of croin the construction area, survey methods to used and ensure that all data collection is coordinated through GDAWR.	
315	6	12-14		Table 12.2.7	GDAWR	Wildlife and Special Status Species: (Alternative I and 2): At Anderson AFB the construction period would be limited if Mariana crows were present and there would be no work at night to avoid impects to the Mariana fruit but.	Finit bats are known to roost in foraging areas and not return to the colony. The construction areas must be surveyed prior initiation of work. The biologist completing the survey must report the presence of spec to GDAWR. Information must be classific to ensure no pouching of bats follows the report. Coordination with GDAWR and USFWS will be necessary.	
316	6	12-14		Table 12.2.7	GDAWR	Wildlife and Special Status Species: (Alternative 1 and 2): Establishment or expansion of new ecological reserves and conservation areas would be considered.	GDAWR agrees that the establishment of new and expansion of existing ecological reserves and conservation areas should be implemented in compensation of habitat los due to construction for the build up.	
317		12-14		Table 12.2,7	GDAWR	Wildlife and Special Status Species: (Alternative 1 and 2): Sea turtle natural history studies would be undertaken to better understand the species and benefit long-term military mission planning.	Sea turtle natural history studies should be included in CVN issues and not here. The sturtle study should be replaced with fruit be crow, kingfisher, starling, or rail studies (i.e appropriate topics for this section).	
318	6	12-14		Table 12.2.7	GDAWR	Wildlife and Special Status Species: (Alternative 1 and 2): High quality habitat areas would be fenced to exclude invasive species and foraging plots would be established within.	The FEIS should define "high quality habits for the purposes within the document. Fencing placement would need to avoid further clearing. Area surrounded by road access will be appropriate, such as Hunting	

Area A.

J-018-190

Thank you for your comment.

The FEIS has been modified to state that DoD will provide biologists for monitoring during construction. Methods are to be developed. Data would be available to GDAWR.

The FEIS has been modified to specify inspections prior to initiation of work, as well as inspections during construction. Sightings will not be made public.

New ecological reserves are being considered in conjunction with ongoing Section 7 consultation with USFWS.

Sea turtle natural history studies will be removed from this volume per the suggestion.

Establishment of high quality habitat areas are currently being discussed in the Section 7 consultation with USFWS and this information is being incorporated into the FEIS. Removal of any additional habitat would be avoided to the extent possible.

	G)	DAWR Co	mments	to DEIS/OE	IS Guam and CNN	II Military Relo	eat Response Matrix	Page 109 of 135
					Dr	aft EIS/OEIS Gu	am and CNMI Military Relocation	
	GDAW	R-Comment	ts 2-16-20	10				
					ocation		EIS/OEIS Statement	GDAWR's Comment
		Volume	Page	Paragraph	Section	Commenter		
J-018	319	6	12-14		Table 12.2.7	GDAWR	Wildlife and Special Status Species: (Alternative I and 2): Foncing, patrols, or cameras would be used to prevent peaching.	Fencing does not prevent pouching; enforcement of regulations does. The use of roadside patrols or cameras will not prevent pouching; petrols must go in the forest where pouching; petrols must go in the forest where pouchers go. Until recent restrictions of access to AAFB MSA, GDAWR. Conservation Officers have been effective in apprehending pouchers on AAFB property (i.e., in the forest where security patrols are not allowed to enter). An MOA needs to be established to allow the DoI to accept the stroke that local enforcement is able to provide to protect Guarn's natural resources. The decision to deny unescorted access should be analysed for the impact on natural resources.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-191

Thank you for your comment. Fencing as a conservation measure is currently being discussed with USFWS under the Section 7 consultation. The Navy is proposing to hire at least one conservation law officer for Guam. This is being added to the FEIS. Access to DoD lands on Guam for patrolling by GDAWR is a DoD Joint Region policy matter and not EIS-related.

GD		₹-Commer			EIS Guam and CN	Comn	nent Response Matrix am and CNMI Military Relocation	Page 110 of 135	
#	# -	Volume	Pogo	Paragraph	ocation Section	T	EIS/OEIS Statement		
18-19	_	6			Section	Commenter	Wildlife and Special Status Species: (Alternative 1 and 2): Greenbelt development would be considered for watershed protection, wildlife control, and restoration of habitat.	GDAWR's Comment Mitigation may reduce impacts, however it FBIS must identify compensation to be developed and implemented for loss of habitat.	
32	20		12-14		Table 12.2.7				
							٠		

Thank you for your comment. Conservation measures and BMPs to avoid and minimize impacts to ESA-listed species are being discussed in the ongoing Section 7 consultation with USFWS and are to be incorporated in the FEIS. These measures will also benefit wildlife and other special-status species.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 111 of 135

	Draft EIS/OEIS Guam and C	N
2 16 2010		

			Le	eation		EIS/OEIS Statement	GDAWR's Comment
#	Velume	Page	Paragraph	Section	Commenter		
18 -193 321	6	12-14		Table 12.2.7	GDAWR	Wildlife and Special Status Species: (Alternative 2): Conduct survey in limestone forest water well footprint at Navy Barrigada and, if found, translocation of Guarn tree snails.	Coordination with GDAWR will need to occur to develop a mitigation plan to translocate Guant tree snails. Recent coordination with DoD on resource issues ht been less than exemplary. DoD must respect the Sikes Act that provides the jurisdiction for the local resource agencies to monitor Guam's natural resources on DoD property.
322	6	12-14		12.2.4 Wastewater	GDAWR		A map illustrating basic alternative ts and t should be included in the EIS/OEIS.
_	-	-			GDAWR	Construction; Vegetation: Assuming the entire	The FEIS must redefine the impact as
323	6	12-15	1	12.2.4.1 Basic Alternative la (preferred Alternative) and 1b.		1,000 R (305 m) would need to be cleared, 0.6 ac (0.2 ha) disturbed limestone forest would be cleared, n.6 ad insurbed limestone forest would be cleared, in addition to areas of shruly grassland and tangantangan. Impacts from this removal would be less than significant because no primary limestone forest would be removed.	significant, Disturbed limestone forest is important forest habitat for wildlife. Removal of disturbed limestone forest will have significant impact to wildlife occurring at the former FAA parcel to the NDWWTP
324	6	12-15	2	12.2.4.1	GDAWR	<u>Pritating</u> : both species are ubiquitous throughout Guam.	The yellow bittern and Pacific golden plove are ubiquitous throughout Guam, and are often, within the proposed project site. The are protected under the MBTA. Forcing the species away from the area due to construction is considered take. Nesting birds should not be disturbed and allowed to fledge their young.
325	6	12-15	3	12,2.4.1	GDAWR	Widifis: Therefore, impacts to wildlife due to proposed construction activities at Anderson AFB would be less than significant under Alternative 1a.	Paragraph 1 in page 12-15 identifies former FAA parcel to the NDWWTP for the construction of a new sever line. DEIS is inconsistent with areas it is discussing. The sentence needs to be corrected to read form FAA, not Andersen AFP.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-193

Thank you for your comment.

Coordination with GDAWR would be consulted if Guam tree snails were to be moved. DoD intends to coordinate with GDAWR on natural resource management issues on Guam.

The map showing wastewater alternatives 1a and 1b is provided in Chapter 2 of Volume 6. Reference to these figures has been added to the FEIS.

An impact to vegetation other than primary limestone vegetation is not considered significant under the vegetation category, however removal of habitat of any vegetation type is considered separately under the Wildlife and Special-Status species categories of the analysis.

The proposed actions are not expected to adversely affect the population of migratory bird species that may be present, therefore impacts were determined less than significant.

The reference to Andersen AFB has been removed.

		GDAWR C	Commen	ts to DEIS/C	EIS Guam and CN			Page 112 of 135
	GDAV	VR-Comme	nts 2-16-2	2010	D	Comn raft EIS/OEIS Gu	nent Response Matrix nam and CNMI Military Relocation	11001100
	#	Volume	Page	Paragraph	Location		EIS/OEIS Statement	1
	_	6	rage	Paragrapa	Section	Commenter	ALSO DE LO STATEMENT	GDAWR's Comment
J-018	194 326		12-15	4	12.2.4.1	GDAWR	Special status species: No special status species have been identified in the area in historical studies or in recent project specific surveys in similarly nearly area at South Finegayan, former FAA, and GLUP 77 parcel. There would be no impacts to special status species.	The Mariana fruit bat and many of Guam's native avifatum (forested birds) were known to occur in the areas mentioned in the DEIS. There have been recent reports of incidental sightings of fruit bats using the areas. There is habitat remaining within the areas that fruit bats use.
J-018	195 327	6	12-17	1	12.2.5.1 Solid Waste	GDAWR	Basic Alternative 1 (Preferred Alternative): The preferred alternative for solid waste would be the continued use of the Navy Landfill at Apra Harbor until Layon Landfill is opened, which is scheduled for July 2011.	The FEIS must identify required recycling programs to reduce the amount of solid waste disposed of on Guarn.
J-018	196 328	6	12-33		Table 12.2-15	GDAWR	Totals: 58 ac limestone disturbed; 46 ac mixed limestone/secondary; 11 ac tangantangan; 35 ac scrub; 14 ac tangantangan; 35 ac scrub; 14 ac tangantangan; 36 ac developed land.	Approximately 133 ac of habitat for wildlife and special-status species will be removed for upgrading readways. FEB should indicate the total amount of vegetation to be removed with the proposed actions. The amount of vegetation to be removed comines to according to the proposed action of the prop
	329	0	12-34	1	12.2.6.1 Alternative 1: off base roadways	GDAWR	Wildlife:however, long-term, permanent impacts to populations of such species would not result because the species known to be present are abundant in surrounding areas. Therefore, impacts to wildlife would be less than significant with implementation of Alternative I roadways.	The presence of species found in the proposed project site must be addressed whother the species is ubsquitous or not. The ubiquitous nature of the buildup on Guam is destroying the ability of Guum to usustain even the basics of floor and fauna. The FEIS should state that the proposed actions will change Guam forever and not necessarily for the botter.

Thank you for your comment. We are not aware of any official report of species sightings in the area. However, based on the comment, impacts to special-status species will be changed from no impact to a less than significant impact.

J-018-195

Thank you for your comment. The new Layon Landfill is designed to accommodate municipal solid waste from all current and future DoD sources as well as civilian and commercial sources. Based on conservative waste generation rates, the new landfill will reach capacity in approximately 33 years. The DoD will be implementing diversion and recycling programs that will significantly reduce solid waste generation and will help to extend the life of the landfill. Details of these programs have been added to Volume 6, Chapter 2.

The Navy has prepared a Recycling and Solid Waste Diversion Study for DoD Bases, Guam that has established a diversion goal of 50 percent, not including construction and demolition debris. The Study considers the following alternatives: 1) DoD would construct two refuse transfer facilities, one in northern Guam and one in Southern Guam; 2) DoD would implement a source separation recycling program at all facilities; 3) DoD would construct recycling center(s); and 4) DoD would construct a materials resource recovery facility.

Additionally, the Navy has prepared a Construction and Demolition (C&D) Debris Reuse and Diversion Study for DOD Bases, Guam that addresses waste characterization, processing, recycling and disposal of construction debris. Information from this study has been used to update the FEIS.

The C&D study considers the following alternatives: 1) Contractors would continue to process all C&D debris, and DoD would construct a

- h					ocation		EIS/OEIS Statement	GDAWR's Comment
018-	197	Volume 6	Page	Paragraph	Section	GDAWR	Mariana fruit bat: There would be no temporary	The FEIS needs to clarify that there will be direct impacts to fruit bats. Bats are known to
	330		12-34	3	12.2.6.1 Alternative I: off base roadways		direct impacts from noise and activity during construction at Andersen AFB to roosting and nesting activities of the Mariena fruit bat because construction would only occur during the daytime.	occur in and around the proposed project site (reosting or foraging) at all times of the day. Noise generated by construction will have a significant impact to the species. Mitigation will need to be addressed and implemented. Note: Mariana fluit bats do not nest - they give birth to live young. Nesting should be removed and replaced with foraging.
	331	6	12-34	3	12.2.6.1 Alternative 1: off base roadways	GDAWR	Mariana fruit bor: Based on the removal of Overlay Refuge and essential habitat areas, there would be significant impacts to the fruit hat. This significant impact would be mitigated to less than significant with measures described in Volume 2, Section 10.2.2.	Mitigation measures described in Volume 2 Section 10.2.2 would not lessen the impact for the fruit bat. Impacts would be less by providing alternative undisturbed foraging and roosting grounds for fruit bats to avoid the project sites. In addition, the FEIS mutdentify how local resource agency will be allowed to continue monitoring the only remaining fruit bat aclosy on Gram that is located on AAFB property. Without the diligence of GDAWR for the last 30 years, fruit hat foraging and roosting areas would not be known and the proposed activities would proceed without knowing the full impact on the species. It is important that DoD allow the regulatory agencies to continue monitoring on DoD property to improve DoD's reputation as a good stown of Guarn's resources and a cooperator undit the Sikes Act.

composting facility to process green waste and 2) DoD would construct a C&D debris central processing facility and a composting facility to process green waste.

Through project specific contractual requirements, DoD contractors would be required to process and divert 50% of C&D debris that is generated on each project. Another alternative would be for the DoD to construct a central processing facility that would be used to recover and reuse or recycle scrap metal, concrete (without lead-based paint), asphalt concrete, and untreated wood. Contractors would be required to haul C&D to this facility. Based on the C&D debris composition assumed in the study, the Navy will be able to achieve a C&D debris waste diversion goal of greater than 50% by the end of fiscal year 2015. A site for the central processing facility is currently being evaluated but will most likely be located in northern Guam. Disposal of C&D debris that is not divertible or recyclable will be disposed at the Navy Hardfill at Apra Harbor. The study also evaluates the construction of a composting facility to handle green waste generated by land clearing activities required for new development.

J-018-196

Page 113 of 135

Thank you for your comment.

The total amount of habitat removed for all proposed actions is given in Volume 7 of the EIS.

The species present in the proposed areas of roadway improvements are described based on available information and extrapolation from other similar areas. Impacts to wildlife were evaluated based on the criteria outlined in Section 12.2.1.

J-018-197

Thank you for your comment.

		DAWK	omment	s to DEIS/O	EIS Guam and CNN		ocation ent Response Matrix	Page 114 of 135	
	GDAW	R-Commer	ıts 2-16-2						
	#				ocation			T	
J-018		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
	332	6	12-34	4	12.2.6.1 Alternative 1: off base roadways	GDAWR	Mariana crow: Based on the renoval of habitat areas, there would be significant impacts to the Mariana crow. This significant impact would be mitigated to less than significant with measures described in Volume 2, Section 10.2.2.	Mitigation measures described in Volume 2, Section 10.2.2 would not lessen the impact for the crow. Impacts would be mitigated by providing alternative undistarbed foraging and easing labeliar for crow recovery on DoD property. In addition the FEIS must commit to repatriation of ES on military property. Without allowing the reintroduction of ES on military property. DoD will fail in any attempt to minimize or mitigate for the carviroomenial impacts to ES and their habitat from the military building on Guam.	
	333	6	12-34	5	12.2.6.1 Alternative 1: off base roadways	GDAWR	Micronsian kingfisher: Based on the removal of babitat areas, there would be significant impacts to the Micronesian kingfisher. This significant impact would be mitigated to less than significant with measures described in Volume 2, Section 10.2.2.	Mitigation measures described in Volume 2, Section 10.2.2 would not lessen the impact for the kingisher. Impacts would be mitigated by providing alternative undistarted fornging and nesting habitat for kingisher recovery on DoD lands. In edition the TEIS must commit to repatriation of ES on military property. Without allowing the reintroduction of ES on military property, DoD will fall in any attempt to minimize or mitigate for the environmental impacts to ES and their habitat from the military buildup on Guam.	

During construction, monitoring will be conducted in areas where fruit bats may be present and construction would be halted if fruit bats are present. This has been made clear in the FEIS.

Final conservation measures for the fruit bat are being developed in conjunction with the Section 7 consultation with USFWS. These measures are being added to the FEIS. Access to DoD lands on Guam by GDAWR is a DoD Joint Region policy matter and not EIS-related.

J-018-198

Thank you for your comment. The Navy is proposing to implement various conservation measures on Guam to avoid and minimize proposed project impacts and to improve habitat for threatened and endangered species. These measures are currently being discussed with USFWS in conjunction with the Section 7 consultation. They are intended to support the re-introduction of native endangered & threatened species on Guam, consistent with the species recovery plans. When the constraints to successful reintroduction of native threatened or endangered species have been minimized to a point that the Navy and USFWS mutually agree will provide the opportunity for feasible and successful re-introduction, the Navy will work with USFWS to develop a programmatic biological opinion to ensure that such re-introductions are consistent with the species recovery plans and will not conflict with the military mission on Guam.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

12.2.6.1

12.2.6.1

12-35

12-37

337

2

Page 115 of 135

	nt Response manrix
Draft EIS/OEIS Gua	m and CNMI Military Relocation

					Dra	ft EIS/OEIS Gua	m and CNMI Military Relocation	
	GDAW	R-Commen	ts 2-16-20	10				
				L	ocation		EIS/OEIS Statement	GDAWR's Comment
	#	Volume	Page	Paragraph	Section	Commenter		
J-018	- 199	6	12-34	6	12.2.6.1 Alternative 1: off base roadways	GDAWR	Guam rail: Based on the removal of habitat areas, there would be significant impacts to the Guam rail. This significant impact would be mitigated to less than significant with measures described in Volume 2, Section 10.2.2.	Mitigation measures described in Volume 2, Section 19,2 would not lessen the impact for the Guarn rail. Impacts would be less by providing alternative undisturbed foraging and nesting grounds for Guarn rail recovery on DoD property. In addition the FEIS must commit to reparatisation of ES on military property. Without allowing the reintroducing of ES on military property. DoD will fail in any attempt to minimize or mitigate for the environmental impacts to ES and their habitat from the military buildup on Guarn.
	335	6	12-34	7	12.2.6.1 Alternative 1: off base roadways	GDAWR	Pacific Slandar-toed gecko: The geeko was found in recent surveys in northeastern NCTS Finegayan in a forested area. However, because the readway impacts would be in or along adjacent disturbed areas, the species would be unlikely to be present in the project areas.	Mitigation would need to be addressed and implemented for the Pacific Stender-need gocko. The species are known to move into areas adjacent or along roadway project sites during construction.
		6				GDAWR	Central Vegetation: Impacts to vegetation associated with the road improvements and bridge replacements would be less than significant because minimal nrimary limestone forest would	Any vegetation removed is significant as Guam is a very small island and all vegetation provides habitat for wildlife and Special status species. Vegetation removal

be removed.

Wildlife: Based on observations during field visits

and observations in other similar areas on Andersen AFB, NCTS Finegayan, and Anderser

South (discussed in Volume 2, Section 10.1), the only native bird species likely to be present in the

inland project areas are the yellow bittern and

without compensation or mitigation will have significant impact to species recovery.

Habitat outside of DoD lands will need to be protected and preserved for wildlife refuge. The DEIS does not identify specific surveys completed to base the findings on what native species are likely to occur at the proposed bridge replacement project sites. Systematic and frequent field observations are necessary to confirm presence or absence. The DBIS fails to address the Mariana common moorhen that may occur at several of the proposed project sites.

J-018-199

Thank you for your comment.

The Navy is proposing to implement various conservation measures on Guam to avoid and minimize the impacts from the proposed project and to improve habitat for threatened and endangered species. These measures are currently being discussed with USFWS in conjunction with the Section 7 consultation. They are intended to support the reintroduction of native endangered & threatened species on Guam, consistent with the species recovery plans. When the constraints to successful reintroduction of native threatened or endangered species have been minimized to a point that the Navy and USFWS mutually agree will provide the opportunity for feasible and successful reintroduction, the Navy will work with USFWS to develop a programmatic biological opinion to ensure that such re-introductions are consistent with the species recovery plans and will not conflict with the military mission on Guam.

Based on extensive project-specific surveys, the slender-toed gecko is considered rare within the proposed project areas and is not expected to be encountered along road renovation or construction projects.

An impact to vegetation other than primary limestone vegetation is not considered significant under the vegetation category, however removal of habitat of any vegetation type is considered separately under the Wildlife and Special-Status species categories of the analysis.

Biological surveys have been completed for the EIS and results from these have been incorporated into the DEIS. The report of these studies has been included in the FEIS. Mariana common moorhens are addressed under Special-Status Species. None were observed in any project areas. For those areas where they may be occasionally present,

	- G	DAWR C	omment	s to DEIS/O	EIS Guam and CN			Page 116 of 135
	GDAW	R-Commer	nts 2-16-20	010	D	Come raft EIS/OEIS Gu	nent Response Matrix am and CNMI Military Relocation	10,0110 01133
	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	200 338	6	12-37	3	12.2.6.1	GDAWR	Wildlife: Native land crabs and econet crabs are present on the base in coantal and estuarine areas.	The DEIS fails to address mangrove crabs which occur within the Lagues and Sasa area; both are surrounded with mangrove habitat. The PEIS must indicate mitigation to compensate the impacts.
	339	6	12-37	4	12.2.6.1	GDAWR	Wildlife:however, long-term, permanent impacts to populations of such species would not result because the area impacted does not expand greatly from presently disturbed areas and would be very small in comparison to the total habitat available. In addition, most species known to be present are abundant in surrounding areas (with the exception of occount crab).	The FEIS must clarify how there would be no iong-ferra, permanent impacts to species that are smaller, less mobile and secking refuge in burrows, such as mangrove crab and coconut crab. Mitigation must be developed and implemented or the FEIS must indicate compensation for the potential impacts to this species.
	340	6	12-37	5	12.2.6.1	GDAWR	Special status species: Direct impacts to special status species in the Central Region would be less than significant.	DEIS fails to mention that the Mariana common moorhen may occur at the proposed bridge replacement sites. Mitigation must be addressed to reduce impact to the species.
	341	6	12-39	5	12.2.6.5 Firing range option	GDAWR	Option A would require the realignment of Route 15, while Option B does not require realignment of Route 15, therefore, by choosing Option B, the impacts associated with proposed road projects within the Central Region study area to terrestrial biological resources would not occur.	DAWR concurs that Option B be better to eliminate any impacts associated with realignment of Route 15. However, previous issues still apply.

such as along roadways at river crossings, biological monitoring will occur in conjunction with construction projects.

J-018-200

Thank you for your comment.

Crabs near the proposed bridge replacement projects would be afforded some protection with standard BMPs for construction. Movement pathways would not be altered long-term by the construction. No impacts to the crab populations would be expected.

Mariana common moorhens were not observed in any project areas. For those areas where they may be occasionally present, such as along roadways at river crossings, monitoring by Navy biologists will occur in conjunction with construction projects and harassment would be prevented. This will be noted under the mitigation section.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Page 117 of 135

	Draft EIS/OEIS Guam and CNMI Military Relocation
D C	

			Lo	cation		EIS/OEIS Statement	GDAWR's Comment	
#	Volume	Page	Paragraph	Section	Commenter			
- 018-201 342	6	12-40		Table 12.2-18	GDAWR	The table indicates that there would be no removal of primary limestone forest, therefore classified as LSI.	The vegetation to be removed is described as disturbed, mixed secondary vegetation. The FBIS must identify these removals as significant as they serve as habitat for wildlife and special status species. Compensation will need to address removal of all forest habitat types, not just primary limestone forest. Guans is a small island will a limited landmass for the recovery of species. Compensation needs to address the cumulative impacts of clearing, disturbance within buffer zones around project sites, and the impacts of fragmentation of habitat to the recovery of ES.	
343	6	12-40		Table 12.2-18	GDAWR	The table indicates less than significant impacts to wildlife, therefore classified as LSI.	Construction activities will displace wildlife found in project site and adjacent areas. Impact will be significant to species found within the area and adjacent areas, regardless of whether it is ubiquitous on Guam. Mitigation will need to be ideatified to minimize impacts.	
344	6	12-40		Table 12.2-18	GDAWR	The table indicates significant direct impact due to the removal of designated essential habitat for 3 endangered species and Overlay Refuge, mitigated to less than significant.	Mitigation discussed in the text does not compensate for the take of habitat from the proposed activity. FEIS must identify compensation for all habitat loss.	

J-018-201

Thank you for your comment.

An impact to vegetation other than primary limestone vegetation is not considered significant under the vegetation category, however removal of habitat of any vegetation type is considered separately under the Wildlife and Special-Status species categories of the analysis. Mitigation measures are being proposed that take into account impacts from disturbance within buffer zones around sites. Fragmentation of habitat is being minimized, for example by sighting utilities in existing corridors where possible. It is noted that utility line locations are conceptual only at this time and final locations will use existing corridors or disturbed locations whenever possible.

Impacts to wildlife species will be less than significant based on the criteria in Section 12.2.1. It is also noted that many of the conservation measures proposed for special-status species will also benefit other wildlife species.

The Navy is currently in Section 7 consultation with USFWS and various conservation projects are being discussed to avoid and minimize impacts, in addition to those proposed in Volume 2, Chapter 10 of the DEIS. These are being incorporated into the FEIS.

GDAW	R-Commer	its 2-16-20				am and CNMI Military Relocation		
#	Volume	Page	Paragraph	ocation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
202	6	12-6	4	12.2.3.1 Potable water Alternative 1 (preferred alternative)	GDAWR	Construction, Vegetation: Impacts to vegetation at Andersen AFB and Andy South would be less than significant because minimal primary limestone forest would be removed.	Mitigation will need to address removal of forest habitat types, not just primary linestone forest. Guam is a small island value as limited landmass for the recovery of species. Mitigation needs to address the cumulative impacts of clearing, disturbanc within buffer zones around project sites, as the impacts of fragmentation of habitat to recovery of ES. The wells, located WNW AFB are in foraging grounds of the Marfruit bat. Removal of vegetation will result displacement of the species. Locating well in developed areas should be priority.	
346	6	12-8		Table 12.2-2	GDAWR	Total area removed. 16 ac (6.5ha) limestone forest, disarbed; 0.6 se (0.2ha) Lencenno, Casnorina; 0.1 ac (0.04) shrub/grasslands, savanna; and 18 ac (7.3 ha) developed.	The table provided does not clearly define cumulative impact to vegetation communities. The FIBS must identify amount of vegetation remaining for the Special-status species recovery. The 8% in table are deceiving, as the impacts appear small, however, the cumulative impacts of clearing vegetation are greater than the individual parents removed when fingementation of habitat is considered in analysis.	
347	6	12-8		Table 12.2-2	GDAWR	Total area removed. 16-ac (6.5ha) limestone forest, disturbed; 0.6 ac (0.2ha) Leucaena, Casuarina; 0.1 ac (0.04) strub/grasslands, savanna; and 18 ac (7.3 ha) developed.	The FEIS must outline compensation for the loss of all habitat types, as well as fragmentation of habitat. Priority sites for wells should be developed areas.	

Thank you for your comment.

An impact to vegetation other than primary limestone vegetation is not considered significant under the vegetation category, however removal of habitat of any vegetation type is considered separately under the Wildlife and Special-Status species categories of the analysis. Mitigation measures are being proposed that take into account impacts from disturbance within buffer zones around sites. Various criteria were used to cite water wells and associated waterlines. Impacts from installation of these are evaluated in the EIS. It is noted that locations of these are conceptual only at this time and final locations will use existing corridors or disturbed locations whenever possible.

The total habitat areas impacted are provided in Volume 7 of the EIS which addresses collective and cumulative impacts of the proposed projects.

The Navy is currently in Section 7 consultation with USFWS and various conservation projects are being discussed to avoid and minimize impacts, in addition to those proposed in Volume 2, Chapter 10 of the DEIS. These are being incorporated into the FEIS.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation

Comment Response Matrix

Comment Response Matrix

Draft EIS/OEIS Guam and CNMI Military Relocation

GDAWR-Comments 2-16-2010

Location

Location

GDAWR Section

GDAWR S

		Volume Page Paragraph Section Commente					EIS/OEIS Statement	GDAWR's Comment
#		Volume	Page	Paragraph	Section			
0 18-2 0	03	6	12-8	3	12.2.3.1 Potable water Alternative 1 (preferred	GDAWR.	Mariana fruit but: There would be no temporary direct impact from noise and activity during construction at Andersen AFB to roosting and nesting activities of the Mariana fruit but because construction would only occur during the daytime.	Fruit hats are known to occur in the area where the wells are located (refer to Figure 12.2.2). Avoidance is the preferred alternative. Notes and activity from construction will have a temporary and permanent direct impact to the fruit bat. Temporary roosting fruit bets will be force out of the area.
					alternative)			Permanent: fruit bats will no longer occur is the area due to the activity. Avoiding the area and not allowing for construction in the area will be more appropriate for the specie FEIS must compensate for all loss of habita Note: fruit bats roost not nest.
3	349	6	12-8	3	12.2.3.1 Potable water Alternative 1 (preferred alternative)	GDAWR	Mortana fruit bat: Based on the removal of Overlay Refuge and essential habitat areas, there would be significant impacts to the fruit bat. This significant impact would be mitigated to less than significant with measures described in Volume 2, Section 10:2.2.	Mitigation measures described in volume a section 10.2.2 are BMPs to minimize inpatching the proposed actions. The FEIS mustaring the proposed actions. The FEIS mustaring the proposed actions. The FEIS mustaring the proposed actions are set will be compensated. Compensation for less of vegetation (foraging areas) from the construction could include reforesting budlands, or rebabilitating disauthed forest adjacent areas to provide more rososting and foraging areas for the fruit bat. Compensatimentable should be in line with construction for the wells; if compensation activities are stalled then construction should be habed. Area needs to be maintained and monitore to ensure success.
	350	7	2-10		Table 2.1-1 Summary of BMP's	GDAWR	Natural Resource Management (Terrestrial):	DEIS fails to mention vegetation concerns unnecessary vegetation removal, recycling cleared vegetation as mulch, maintenance cleared disturbed areas due to construction and operation.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-203

Thank you for your comment.

Various criteria were used to sight water wells and associated waterlines. Impacts from installation are evaluated in the EIS. As stated, mpacts from operations are expected to be minimal since water wells would need servicing infrequently. It is noted that locations of these features are conceptual only at this time and final locations will use existing corridors or disturbed locations whenever possible.

The Navy is currently in Section 7 consultation with USFWS and various conservation projects are being discussed to avoid and minimize impacts, in addition to those proposed in Volume 2, Chapter 10 of the DEIS. These are being incorporated into the FEIS.

Vegetation impacts were considered in the DEIS. Mulching of cleared vegetation will be implemented if practicable. All cleared areas will be maintained.

		DAWK	Journen	s to DEIS/O	EIS Guam and CNM		ocation neat Response Matrix	Page 120 of 135
	GDAW	R-Comme	nts 2-16-2	910	Dra	aft EIS/OEIS G	near Response Matrix nam and CNMI Military Relocation	
	#			E	ocation			
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
-018	204 351	7	2-10		Table 2.1-1 Summary of BMP's	GDAWR	Natural Resource Management (Terrestrial):	DEIS fails to discuss BMPs for Mariana fre bat: noise generated by construction and operation disturbing fruit but roost and foraging sites, night time work is limited, prevent unnecessary vegetation clearing.
-018	- 205 352	7	2-21		Table 2.2-1 Summary of Potential Mitigation Measures	GDAWR	Geological and Soil Resources- No mitigation measures.	FEIS should consider the potential for fuel leaks during construction (hydraulic fuel, petroleum, etc.). All project sites should ha easily accessible absorbent pads. Frequent inspection of vehicles for fuel leaks should occur to prevent soil contamination.
-018	- 206 353	7	2-22		Table 2.2-1	GDAWR	TB-1: Adopt the Andersen AFB aircraft operations monitoring program and adaptive management strategy for Marinas fruit bats and crows and modify as necessary for project-specific actions.	The FEIS needs to include the Adaptive Management Strategy for Mariana fruit bars and crows. FEIS must ensure adequate coordination with GDAWR and USFWS occurs for the mitigation measures to occur.
	354	7	2-22		Table 2.2-1	GDAWR	TB-2: Translocate Guam tree snails at Navy Barrigada to another site on DoD lands after approval by USFWS (not required for preferred alternative).	The FEIS must clarify what is not required for preferred alternative - translocation of snails or getting approval? DoD must coordinate with GDAWR.
	355	7	2-22		Table 2,2-1	GDAWR	TB-2: Translocate Guam tree snails at Navy Barrigada to another site on DoD lands after approval by USFWS (not required for preferred alternative).	Translocation of Guam tree snails will need to be coordinated with GDAWR. Snails are protected under local ES list.
	356	7	2-22		Table 2.2-1	GDAWR	TB-3: Conduct biological surveys for the Mariana fruit bat and Mariana crow before clearing.	The FEIS must clarify who will survey for bats and crows and method/s to be used to determine presence of roosting bats. The FEIS should indicate that coordination with GDAWR is mandatory. No actions associated with the buildup or BRAC should hinder GDAWR's ability to continue surveying Guant's native species.

Thank you for your comment. Volume 7 has been updated in the FEIS to incorporate numerous changes in BMPs and conservation measures. Biological monitoring before and during construction has been added to ensure fruit bats are not disturbed.

J-018-205

Thank you for your comment.

Precautions to prevent contamination of soil from fuel and other potentially hazardous materials is discussed in Chapter 17, Hazardous Materials and Waste.

J-018-206

Thank you for your comment.

An adaptive management strategy for fruit bats and crows is to be developed. USFWS and GDAWR would be kept apprised of the status through the Integrated Natural Resources Management Plan.

The language on tree snail translocation has been clarified in the FEIS. If translocated, coordination with GDAWR would occur.

The FEIS has been updated to state that Navy biologists would monitor for fruit bats and crows. Access to DoD lands on Guam by GDAWR is a DoD Joint Region policy matter and not EIS-related.

	G	DAWP C	omments	to DEIS/OF	IS Guam and CNM	I Military Relo	cation	Page 121 of 135
		R-Commen				Comme	ent Response Matrix m and CNMI Military Relocation	
	Ħ	-			eation		EIS/OEIS Statement	GDAWR's Comment
	"	Volume	Page	Paragraph	Section	Commenter		
J-018	- 207 357	7	2-22		Table 2.2-1	GDAWR	TB-10: Update the existing Navy Ungulate Management Plans to include the new lands proposed for training and cantonment areas.	The FEIS must include the Navy Ungulate Management Plan. The plan will need to be reviewed and approved by GDAWR and USFWS as control methods may impact natural resources and the recovery of ES, as well as require local permits.
J-018	- 208 358	7	2-22		Table 2.2-1	GDAWR	TB-12: Establish high quality liabitat with perimeter fencing to exclude invasive animals and for establishment of foraging plots.	The FEIS and ROD must define "high quality labitat". Perimeter fencing requires clearing for installation, therefore area must be strategically selected to avoid the need to mitigate a mitigation action.
	359	7	2-22		Table 2.2-1	GDAWR	TB-13: Install fencing or patrols to prevent posching.	Fencing will not prevent posching. The enforcement of Guan's pane management regulations will control posching. The FEIS should state that DOD will allow DDAWR conservation officers unescorted access to enforce regulations on DOD property. All babitat removal associated with the installation of fences will need to be compensated.
	360	7	2-22		Table 2.2-1	GDAWR	TB-14: Coeduct biological surveys for Endangered Species Act. (ESA) listed species before construction clearing.	The FEIS must clearly define who and how the surveys will be completed. The surveys should be in cooperation with GDAWR. Surveys should not be restricted to construction clearing. Surveys (monitoring) should be conducted for the duration of the construction.
	361	7	2-22		Table 2.2-1	GDAWR	TB-15: Monitor birds using "Tropical Monitoring of Avian Productivity and Survival' survey methodology.	FEIS will need to define who and how often the monitoring will be conducted. Coordination with GDAWR and USFWS is necessary.

Thank you for your comment.

The Ungulate Management Plan is currently under development and will not be included within the FEIS. The plan will be provided to GDAWR through the Integrated Natural Resources Management Plan for review. Any local permits required to implement the plan would be obtained.

Bird monitoring specified under TB-15 is for Volume 3 - Tinian.

J-018-208

Thank you for your comment.

Locations for establishing high-quality protected habitat areas as a conservation measure are currently being discussed with USFWS under the Section 7 consultation. Fencing may or may not be included. If included the disturbance from installation of the fence would be minimized.

To prevent poaching the Navy is proposing to hire at least one conservation law officer for Guam. Access to DoD lands on Guam by GDAWR is a DoD Joint Region policy matter and not EIS-related.

The FEIS has been updated to state that Navy biologists would monitor for listed species before and during construction.

Bird monitoring specified under TB-15 is for Volume 3 - Tinian.

	$\overline{}$	DAMK	ommen	S to DEIS/OF	EIS Guam and CN			Page 122 of 135
	GDAW	/R-Comme	ats 2-16-2	010		Comn Oraft EIS/OEIS Gu	ent Response Matrix am and CNMI Military Relocation	
	#			Le	ocation		1	
		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	209 362	7	2-22		Table 2.2-1	GDAWR	TB-16: Develop and implement a Tinian monarch management plan.	DoD will need to coordinate and work closely with CNMI-DFW and USFWS to develop and implement a plan. DoD will need to secure funding for the implementation of the plan for CNMI.
	363	7	2-22		Table 2.2-1	GDAWR	TB-17: Reforest plots to improve habitat.	The FEIS needs to indicate that DoD will coordinate with Guam Forestry and GDAWI to develop a plan to reforest habitat.
	364	7	2-22		Table 2.2-1	GDAWR	TB-19: A survey would be conducted in the Rt, 15 range footprint areas prior to clearing for Hertitera longitacistate with subsequent translocation or propagation if found, mature trees identified in previous studies would not be removed.	Vegetative buffers around mature trees will need to be maintained to protect trees from typhoons and/or invasive insects.
I-018	- 210 365	7	2-22		Table 2.2-1	GDAWR	TB-20: Establish Base policies, instructions, or orders to ensure that cats and dogs are documented and all pets are controlled and not allowed at Haputo ERA.	Policies, instructions, or orders should include restrictions to other recreational area such as DoD beaches, scenic areas, golf course, etc.
-018	- 211 366	7	2-22		Table 2.2-1	GDAWR	TB-21: Monitor the Mariana fruit bat, Micronesian kingfisher, and Mariana crow in areas surrounding dervolition, breacher, and small arms training section to determine potential noise impacts and if this monitoring determined that these species were being affected, techniques to reduce noise generation, such as noise barriers, would be employed.	The FEIS needs to clarify who will be monitoring and how often will the monitorin cocur. The Island swiftlet should be include for monitoring at Naval Magazine. Cooperating with, and providing access to GDAWR staff will increase monitoring efforts.
J-018	367	7	2-22		Table 2.2-1	GDAWR	TB-23: Investigate invasive insect management options for the ESA-listed fire tree and SOGCN cycad.	The FEIS should indicate cordination with DoAg, and UOG will need to occur. Heritiera longipetiolata, Intsia bujuga and other SOGCN tree species should be included for this action.

Thank you for your comment. DoD will work with the USFWS and CNMI-DFW through the Integrated Natural Resources Management Plan to develop the Tinian monarch plan. DoD will seek input from Guam agencies through the Integrated Natural Resources Management Plan on reforestation efforts. Buffers around Heritiera longipetiolata trees will be maintained if possible. Some trees already have forest cleared up to them.

J-018-210

Thank you for your comment. The Marine Corps recognizes the various issues associated with household pets and has adopted a new order "Domestic Animal Control" (MCO 1000.22 Chapter 6, August 11, 2009) that would be applicable to the forces relocating to Guam. A few of the key points relevant to pet population control are: 1) Bachelors are not be allowed to have pets, 2) families are limited to 2 dogs, 2 cats or 1 dog and 1 cat, 3) all pets are to be registered with local veterinary treatment center, 4) vaccination and microchips are required and 5) spay and neutering is strongly encouraged but not required. The microchip requirement would deter abandonment, because the owners know in advance that they could be identified as being responsible for an abandonment. This new order is added to Volume 8 of the Final EIS and Volume 7 summary table of Best Management Practices. Pets are restricted from conservation areas, including Haputo Beach.

J-018-211

Thank you for your comment. The monitoring for potential noise impacts would be by Navy biologists. This conservation measure is being reevaluated under the Section 7 consultation with USFWS. This reevaluation is being provided in the FEIS. Swiftlets are already being monitored.

	G	DAWR C	omment	to DEIS/OE	IS Guam and CNM	II Military Relo	cation	Page 123 of 135
		R-Commen		,				
	#	Volume	Page	Lo Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	- 213	7	2-23		Table 2.2-1	GDAWR	TB-24: Establish or expand new ecological reserves and conservation areas.	Essential habitat for special status species had been identified in the Overlay Refuge. Adopting the identified essential habitat as an ERA is highly recommended for the recovery of the species. Expanding existing ERAs will be beneficial for the recovery of T&E species. Coordination with USFWS, GDAWR and other stakeholders will need to occur.
J-018	214 369	7	2-23		Table 2.2-1	GDAWR	TB-25: Conduct sen turtle natural history studies to better understand the species and benefit long-term military mission planning.	In addition to studying the species, conservation efforts to minimize impacts on turtle activity within Dol lands is needed. Unnecessary vegetation clearing in coastal habitat (potential sea turtle nesting areas) needs to be prevented. Awareness within the Command needs to be increased to prevent unauthorized clearing such as eccurred at Tarague Beach.
J-018	215 370	7	2-23		Table 2.2-1	GDAWR	TB-26: Limit construction period if Mariana crow are present during the day. No construction at night to avoid impacts to Mariana fruit bat.	The FEIS should indicate who will determine the presence of crows and/or bats at the construction site. Construction must stop during the day in the presence of fruit bats.
	371	7	2-23		Table 2.2-I	GDAWR	TB-27: Monitor the Tinian monarch and Mariana common moerhen would be conducted in areas surrounding the ranges to determine potential disturbance impacts and, if impacted, noise reduction techniques would be employed.	TB-27 should also be included as potential mitigation measure for Volume 6, bridge replacement projects. If nesting birds are present, construction activity should cease until nestlings fledge.

Thank you for your comment. This action would be programmed through the Joint Region INRMP. Coordination with DoAg and UoG would occur for investigation of insect management options. Emphasis would be on Serianthes nelsonii due to its status.

J-018-213

Thank you for your comment. Reserve areas are being discussed with USFWS under the Section 7 consultation. Management of these areas would be coordinated with stakeholders.

J-018-214

Thank you for your comment. Your concern is not directly related to the EIS but has been noted.

J-018-215

Thank you for your comment.

Navy biologists will be monitoring the construction. Construction would halt in the presence of fruit bats or crows.

Monitoring for Mariana common moorhens during bridge replacement projects has been added to the FEIS.

	G	DAWR C	omment	ts to DEIS/OI	EIS Guam and CN			Page 124 of 135
	GDAW	R-Commen	its 2-16-2	010	I	Comm Oraft EIS/OEIS Ga	nent Response Matrix 1881 and CNMI Military Relocation	
	#	Volume			ocation		EIS/OEIS Statement	
	-	volume 7	Page	Paragraph	Section	Commenter	Eloroteto statement	GDAWR's Comment
-018	216 372		2-23		Table 2.2-1	GDAWR	TB-28: Conduct additional surveys for the Pacific sleader-toed gecko at NCTS Finegeyan and habitat enhancement at NMS if necessary.	The FEIS must clarify what criteria will determine whether habitat enhancement at NMS for the Pacific slender-tood geeko is necessary. Habitat enhancement must also be defined. Other native repells expecies were identified and discussed briefly in Volumes 2 and 5. These native reptile species should be included under TB-28.
	373	7	2-23		Table 2.2-1	GDAWR	TB-29: Establish greenbelt for watershed protection, wildfire control, and restoration of habitat.	TB-29 should be included in all Volumes and not be restricted to Volumes 2 and 6.
	374	7	2-23		Table 2.2-1	GDAWR	TB-30: Exclusion fencing and foraging plots would be set up for protection of wildlife and special-status species.	Strategic planning for the placement of exclusion fencing is recommended to minimize further closes of vegetation and avoid having to mitigate for mitigation. Coordination with USFWS, GDAWR and other stakeholders will need to occur.
	375	7	2-23		Table 2.2-1	GDAWR	TB-33: Natural resource awareness briefings would be conducted for construction personnel.	In addition to conducting briefings for construction personnel, in-coming and existing military personnel and their dependents must be briefed and aware of the natural resources on Guam.
018	-2,1,7	7	2-23		Table 2.2-1	GDAWR	MB-33: Dredging/filling in the marine environment would be scheduled to avoid coral spawning and recruitment periods.	Scheduling should also avoid nesting sea turtles.
	377	7	2-23		Table 2.2-1	GDAWR	MB-34: Provide marine biological resources education and training on EFH, ESA, and MMPA	Marine Preserves should be included in the education and training program.
	378	7	2-23		Table 2.2-1	GDAWR	MB-35: Consider the suite of compensatory mitigation project proposals for impacts to coral reef communities: 1. Artificial reefs, 2	GDAWR does not approve of artificial reefs as an option for compensatory mitigation.

Thank you for your comment.

Although the full distribution and population of the slender-toed gecko is not known, it is documented as present on NMS and is found throughout the Pacific. Therefore, the species is unlikely to be significantly impacted. The impact on the Guam population is unknown. However, conservation measures proposed for endangered species will aid the species. To better define the Guam population, an INRMP project would be programmed to better define the distribution and abundance on military lands. Because even the distribution and requirements of the species is not well understood habitat enhancement needs are not known therefore the statement about habitat enhancement has been removed. Other reptile species will not be significantly impacted based on project-specific surveys therefore are not included.

TB-29 is general mitigation that applies to all project impacts.

Exclusion fencing may or may not be included in final mitigation plans after discussions under the Section 7 consultation. If included additional clearing would be minimized.

Requirements for natural resource briefings for marines and distribution of environmental education materials for families have been added to the FEIS.

J-018-217

Thank you for your comment.

	G	DAWRC	mments	to DEIS/OF	IS Guam and CNM	I Military Relo	ocation	Page 125 of 135
		R-Commen				Comm	ent Response Matrix nm and CNMI Military Relocation	
	#	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	- 218	7	2-23	raragrapu	Table 2.2-1	GDAWR	MB-36: Increased effort toward ERA enforcement (Haputo) and other ESA, MMPA, and EFH policies.	Allowing DAWR Conservation Officers access to DoD lands will increase efforts toward natural resources enforcement.
	380	7	2-23		Table 2.2-1	GDAWR	MB-36: Increased effort toward ERA enforcement (Haputo) and other ESA, MMPA, and BFH policies.	Marine Preserves will need to be added, as well as Hunting regulations and policies.
J-018	381	7	2-3		Table 2.1-1 Summary of BMP's	GDAWR	Oneration: Control the carabao population (through hunting, etc.) in order to prevent soil erosion by feral ungulates.	Control efforts should not be restricted to carebas population. Feral pig and deer populations are abundant in Naval Magazine. According to local resource regulations, DoD must obtain a permit from GDAWR to pursue 'game species'.
J-018	382	7	2-5		Table 2.1-1 Summary of BMP's	GDAWR	Item 5, Biosecurity Plan: The Navy has provided funding for a biosecurity plan.	The FEIS and ROD must clarify how DoD will ensure that the biosccurity plan is 100% (unded, including the gaps in biosecurity in other jurisdictions. Otherwise the risk of introduction and spread of invasive species troughout the region due to the increase in traffic due to the proposed action will not be mitigated. The risk to the Pacific region posed by the buildup is too large to take.
J-018	221 383	7	2-9		Table 2.1-1 Summary of BMP's	GDAWR	Minimize the risk of uncontrolled spills and releases through industry and Navy accepted methods for spill prevention, containment, control, and abatement.	The FEIS must identify what the "Navy accepted methods for spill prevention, containment, control, and abstenent". The FEIS must identify who is responsible to monitor or assess spills in DoD lands. DoD should also ndhere to the accepted methods developed by Guarn EPA, USEPA, ACOE, and USEWA.

Thank you for your comment.

J-018-219

J-018-218

Thank you for your comment. Discussion of carabao control has been removed.

J-018-220

Thank you for your comment. A commitment to the DoD-related portion of the Micronesia Biosecurity Plan for all high risk and high priority activities has been added to the FEIS. Additional information on the MBP and on interim measures to be taken prior to the full development of the MBP has been added to the FEIS. For additional information on the MBP and existing and interim measures for invasive species control, please refer to Volume 2, Chapter 10, Section 10.2.2.6 for terrestrial species and Volume 2, Chapter 11, Section 11.2.2.6 for marine species. Volume 2 Chapter 14 has been updated to include information on projected increased marine traffic associated with both organic growth and increases due to the military buildup.

J-018-221

Thank you for your comment. Volume 7 includes summary tables of BMPs and mitigation measures that are identified throughout the EIS. The details on waste management are provided in Volume 2, Chapter 17.

	- 0	DAWR C	omment	s to DEJS/O	EIS Guam and CNA			Page 126 of 135
	GDAW	R-Commer	nts 2-16-2	610	Dr	Comm aft EIS/OEIS Gu	nent Response Matrix am and CNMI Military Relocation	
	#	Volume	7.		ocation		EIS/OEIS Statement	
		Volume 7	Page	Paragraph	Section	Commenter	Eto OE15 Statement	GDAWR's Comment
J-018	384	7	3-28		3.3.9.1 Summary of Preferred Alternative's Impacts	GDAWR	The island-wide loss of special-status species habitat, due to clearing of vegetation required by the proposed construction projects ranges from 1% to 6%.	The proposed construction project should focus on the number of acreage to be removed within DoD lands, where the habitat is available for native wildlife. The FEIS should indicate a percentage of take versus remaining habitat on DoD property. The habitat proposed for removal is native forest set aside as essential habitat and Overlay Refuge. The amount of habitat that remains for native wildlife recovery needs to be assessed as well as the level of fragmentation that exists.
	385		3-30	1	3.3.9.2 No Action	GDAWR	Under no action, stressors that degrade habitat quality would remain and the present declining trends for terrestrial biological resources would continue.	Federal agencies have a responsibility to preserve and protect natural resources on DoD property. There are many tools that need to be implemented such as Navy and AAFB NRMPs, USFWS recovery plans, GCWCS, and GNWR-CCP. All focus on habitat quality and recovery of native species.
J-018	- 223	7	3-30	1	3.3.9.2	GDAWR	There is a high risk under both no action and the preferred alternative of the BTS being accidently transported to other Parific islands, but no action there may be less attention and focus on the problem.	There is great attention and focus on BTS and other invasive species entering and oxiding Guam prior to the DBIS. DoD must continue vigilance with 160% inspections for BTS, as well as providing continuous bis control in cargo staging areas by USDA Wildlife Services. The Sikes Act authorizes DoD to incorporate provisions for invasive species management in INRMPs for military installations on Guam. The FEIS must clarify whether DoD will find those projects. The statement indicates that DoD does not believe they can control the bis from leaving via military cargo. If so, the builday should not before the snake can be controlled island-wide.

Thank you for your comment.

Overlay Refuge occurs only on DoD lands therefore percent reduction reflects loss on only these lands. USFWS has recently defined recovery habitat. Comparison of loss of this habitat due to proposed actions compared to the total amount available on DoD lands has been added to the FEIS.

Description of no action conditions reflects the current situation on all lands on Guam.

J-018-223

Thank you for your comment. The statement being commented on is inaccurate and has been removed.

GDAWR Comments to DEIS/OEIS Guam and CNMI Military Relocation
Comment Response Matrix
Draft EIS/OEIS Guam and CNMI Military Relocation

Page 127 of 135

DAWR-Comments 2-16-2010		

			Lo	cation		E1S/OEIS Statement	GDAWR's Comment
#	Volume	Page	Paragraph	Section	Commenter		
- 224 387	7	3-30	2	3.3.9.2	GDAWR	Under no action, limestone forest areas are being dispraded by invasives plants, in particular the canopy tree Vitez, and this trend would continue. The BTS, ungulates, and other invasive plants and animals would continue to degrade and/or provent the recovery of the natural flora and fauna in the project areas.	Clearing, burning, development, and abundonment of domestie pets, associated with the actions degrade and /or prevent the recovery of the natural flors and faune. Without the proposed actions, there would be no additional development, clearing of regmentation of habitat GDA WR recovery projects would continue to improve habitat rative species and repartiset. The FEIS should state how GDAWR will be allowed unsecorted access to continue monitoring at restoring native species on DoD lands.
388	7	3-30	2	3.3,9.2	GDAWR	Ponching, which presently occurs in military lands, would continue because many of the military lands, particularly the Navy lands, are not fenced.	Fencing will not prevent poaching, poeching can only be eliminated through the enforcement of Glum's husting regulations and prosecution of offenders. DOD must acknowledge DoAg GDAWR's jurisdiction to manage Glum's natural resources by applying for depredation permits to implement their ungulate countrol plan and allowing unescorted access to DoAg's conservation officers to patrol DOD propert for poachers.
389	7	3-31	3	3.3.9.2	GDAWR	The most recent counts indicate that fewer than 50 bats remain on Guam.	The DEIS must indicate where the 'fewer than 50 bats remain on Guam' are located, particularly if they roost/forage on military lands where preferred alternatives occur. Where is the reference for this statement? The FEIS must identify the surveys completed that determined the statistic.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-224

Thank you for your comment.

DoD believes the statement commented on about continued degradation under the no action alternative is accurate based on all available information.

DoD believes the statement commented on about poaching under no action alternative is accurate. Access to DoD lands on Guam by GDAWR is a DoD Joint Region policy matter and not EIS-related.

The statement of number of fruit bats on Guam will be amended to state that the fruit bat population at Pati Point continues to decline. The number of fruit bats will be removed (details on numbers are provided in Volume 2, Chapter 10).

	G	DAWR C	omment	s to DEIS/OI	EIS Guam and C	NMI Military Rel		Page 128 of 135		
	GDAW	R-Commer	nts 2-16-20	910		Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation				
	#				ocation					
J-018		Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment		
	225	7	3-31	5	3,3,9,2	GDAWR	Although hunting of bats has been illegal under local law in both Guam and the CNMI since the 1970's, hunting remains a chronic threat.	Hunting is more of a chronic threat in CNMI particularly in Rota, because of the lack of enforcement. On Guam, the major threat is loss of habitat due to development and BTS		
					55,712			predation on pups. Recent declines in the be colony on Guam are more likely attributed to the recent approach lights project at Pati Point. The FEIS must correct the statement.		
J-018	391	7	3-32	3	3.3.9.3	GDAWR	There are many acres of suitable habitat available on non-federally controlled land, but land is not the limiting factor.	Land is a limiting factor as Guarn is a relatively small island. Plus, the majority of land identified as suitable habitat is within the Refuge Overlay where most of the proposed actions occur. Loss of habitat within the Refuge Overlay is a limiting factor and a major threat to species recovery. All habitat loss must be compensated.		
	- 226	,	4-6		Table 4.3-1	GDAWR	Projects listed for AAFB is incomplete.	Several projects were not identified in the table: Air Cargo Drop project, HMU, Ungulate exclosure, North runway approach lights, Dog kennels (additional to beddown project), and IRP clean-ups.		
	393	8	2-2		Table 2.1-1	GDAWR	Endangered Species Act	Table must include the Government of Guam's regulations for the Endangered Species Act, which the GDoA enforces.		
	394	8	3-1		Table 3.1-1	GDAWR	5 Guam Code Annotated § 63302: License required for cutting, removal or mutilation of live trees on public lands.	Permitting Agency would be GDoA.		
-018	237	8	3-1		Table 3.1-1	GDAWR	5 Guam Code Annotated § 63601: Permit required for takes of live coral from the area surrounding the Territory of Guam, extending from the shore of the island outwards to the 10 fathern contour.	Permitting Agency would be GDoA.		

Thank you for your comment. DoD believes the statement about hunting as a chronic threat to fruit bats on Guam is accurate. Loss of habitat has been added to the FEIS as a major threat. The statement about land not being the limiting factor for species recovery has been amended in the FEIS to state that it is only one controlling factor. Reference to the Guam's Endangered Species Act has been added to the FEIS. The correct permitting agency for the Guam code has been added to the FEIS.

J-018-226

Thank you for your comment. The Air Force provided the list of projects and have provided an updated list included in the Final EIS.

J-018-227

Thank you for your comment.

	GI	NAME C	ummente	to DEIS/OF	IS Guam and CNN	II Military Relo	cation	Page 129 of 135
		R-Commen				Commo	ent Response Matrix m and CNMI Military Relocation	
-					cation		EIS/OEIS Statement	GDAWR's Comment
L	#	Volume	Page	Paragraph	Section	Commenter		
J-018	396	8	3-1		Table 3.1-1	GDAWR	Required permit and approval not identified in table.	5 GCA §63122: relative to the protection of land or property from damaged caused by wild birds, and wild animals (ungulates). Permitting Agency would be GDAWR. The FEIS and DoD must acknowledge Guam's jurisdiction to manage Guam's natural resources on military property.
	397	8	4-1	6	Chapter 4	GDAWR	Some terrestrial habitat for special status species would be permanently lost on Guans.	Some is an understatement. Under Alternative 2, 55% of the Marine Location is on Overlay Refiges and puts in jeopardy the recovery of Guant's ES. in addition, the proposed firing range in Pagat will constitute a loss of habitat. The preferred terrestrial habitat on Goam is located within DoD lands on Overlay Refige. The FEIS must identify an alternative that minimizes habitat foos, particularly in the Overlay Refige. All habitat loss must be compensated.
J-018	398	8	4-1	6	Chapter 4	GDAWR	Some wetlands could be permanently lost on Guam.	Impacts to wetlands must be avoided and minimized; the endangered Mariana moorhen depends on the limited freshwater labitats on Guam. Compensation for wetland loss must be implemented concurrently with the proposed actions.
	399	8	5-1	4	Chapter 5	GDAWR	Compliance with these regulatory mandates by DoD and its contractors would reduce both short-term and long-term impacts.	Local and Federal authorities responsible for monitoring compliance with Federal and Cluma laws and permits must be given unescorted access to DoD property. Self-regulation is not an option for DoD due to the history of not adhering to local and Federal regulations wars. GEPA, DOWR, USEPA, USFWS, DEQ, and other regulatory agencies should be provided unescorted access to monitor activities.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-228

Thank you for your comment.

The correct permitting agency for the regulation cited has been added to Table 3.1-1.

The statement referenced concerning habitat lost is not in error and has been retained in the FEIS. The detailed analysis for these impacts are in other other Volumes, e.g. Volume 2, Chapter 10.

J-018-229

Thank you for your comment. The FEIS contains updated information reflecting the on-going investigation of potential wetland areas. The project design will avoid wetlands to the extent practicable.

		R-Commer			EIS Guam and Cl	Comn	nent Response Matrix aam and CNMI Military Relocation	Page 130 of 135
	#	Volume	Page	Paragraph	Section		EIS/OEIS Statement	GDAWR's Comment
018	230	8	5-1	тагадгари	5.1.2	GDAWR	Agriculturally productive soils would not be lost and the long-term productivity of these soils would be preserved.	It is not clear that there will be no contamination of soils. There is a history of the military contaminating Guam's lands and
		8		3.1.2	5.1.2			waters (eg. Cocos lagoon). The FEIS must analyze the risk during construction and operations for hazardous waste contamination.
-018	231		5-5		5.8.1	GDAWR	Short-term impacts would remove small amounts of primary limestone forest and ravine forest and vavine forest and would remove large areas of potential habitat for special-status species, including several federal, Guam, and CNMI listed species.	Removal of any amount of vegetative habits should not be considered as short-term impacts. Many, if not all, of the areas to be cleared are important for the recovery of T&E species, despite the quality of the habital. Space is a valuable and limiting component of the habital recessary for species recovery.
	402	8	5-5		5.8.1	GDAWR	However, besides the Tinian monarch, most project areas are unoccupied by special-status species at present.	The statement is very general, and untrue. Fruit bats are known to occur at most of the proposed areas. Crows are known to occur in the MSA. Swiftlets are known to occur in the MSA. Swiftlets are known to occur in NavMeg, moorthons on Big Navy property and in most wetlands. The FEIS must not minimize the existence of special status species and provide accurate analysis of the impacts that will occur.
	403	8	5-5		5.8.2	GDAWR	Implementation of the plans should improve the overall quality of habitat over current conditions.	The biosecurity plan, fire plan and ungulate management plan will not improve the overeil quality without active restoration of habitat, repatriation of mative species and referestation. The FER must clarify how DoD will compensate for losses through DoD-funded actions that include the local resource agencies and long-term monitoring to ensure succession.

Thank you for your comment.

Risks associated with Hazardous Waste contamination are discussed in Chapter 17 of the EIS, Hazardous Waste and Materials.

J-018-231

Thank you for your comment.

The statement about short-term impacts versus long-term productivity that is being referenced must be considered in the context of the analysis. Changes have been made in the wording in the FEIS to make the analysis more clear.

The statement that "most project areas are unoccupied" has been changed to "many project areas are unoccupied". The full analysis of impacts is in other volumes, e.g. Volume 2, Chapter 10.

DoD disagrees that the biosecurity plan, fire plan, and ungulate management plan would not improve overall habitat quality without other "active restoration". However, the DEIS did include some some active restoration, e.g. greenbelt development, and this has been explained further in the FEIS.

	01	A WD C	te	to DEIS/OF	IS Guam and CNM	Military Relo	cation	Page 131 of 135
		R-Commen				Comm	ent Response Matrix am and CNMI Military Relocation	
ł	#	Volume	Para	Lo Paragraph	cation Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	- 232 464		5-5	Paragraph	5.8.2	GDAWR	Restricted access would protect the species from potential poachers and prevent development of their habitat for the foreseeable future.	Restricted access should exclude local government agencies that regulates wildlife and their habitas. The FEIS must indicate that GDAWR bilogists and conservation officers will be allowed unescorted access to complete their missions.
J-018	-233	8	6-1	ī	6.1.1	GDAWR	Sustainability and smart growth including the ability to adjust to changing geo-political realities while encouraging local economic growth, preserving the environment, and working to improve the quality of life for Guam and CINMI residents and visitors.	The FEIS must address how DoD will encourage local economic growth, preserve the environment, and work to improve the quality of life for residents. All the alternatives proposed were very direct, whereas mitigation actions were considering. For exacuting ERAs or to establish now ERAs. It is difficult to believe that the rapid growth of Cham associated with the milliary builday will improve any environment on Guam – natural, social, or any other.
	406	8	6-1	2	6.1.1	GDAWR	It is the DOD's goal that proposed development would be sized, planned, and developed in a manner that is sustainable and works to preserve and protect limited resources.	The FEIS must define low Do.D meets this goal. Habitat available in DOD lands (destrifted as the Refuge Overlay) for the recovery of T&E species is a litrated resource, yet most of the proposed actions inched the destruction of Overlay Refuge Abitat. The DEIS analysis inchedes habitat throughout Guant, however these areas (outside conservation areas) are not protected.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-232

Thank you for your comment. The access issue is a DoD Joint Region Policy Matter and not specifically related to this EIS.

J-018-233

Thank you for your comment. Chapter 6 of Volume 8 has been updated in the Final EIS based on the updated sustainability planning information.

		DAWR	ommen	ts to DEIS/O	EIS Guam and CN			Page 132 of 135
	GDAW	R-Comme	ats 2-16-2	nent Response Matrix nam and CNMI Military Relocation	1 age 132 01 133			
	Ħ			L	ocation		T	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018	234 407	9	1	12	Appendix J	GDAWR	Appendix J. Supplemental Aircraft Carrier Marine Surveys. Email letter from JT 6. Would application of the data derived from this study provide the necessary input to a habitat equivalency analysis (HEA) model to meet accepted scientific standards for assessing direct physical impacts (dredging) to coral reefs?	The reviewers were asked a bias as well as the wrong question. The question that should have been asked is "Based on the best available science, what would be the preferred method to provide input to a habitat equivalency analysis (HEA) model to meet accepted scientific standards for assessing direct physical impacts (dredging) to coral reefs?
J-018	235 408	9	1	9	1.3	GDAWR	Figure 1-1. CVN Berthing Alternative 1 – Former Ship Repair Facility (SRF)	Alternative 1 is Polaris Point and not the Former Ship Repair Facility. The FEIS needs to correct this error because it is misleading.
J-018	409	9	11	4	Appendix J	GDAWR	Appendix J. Assessment of Benthic Community Structure in the Vicinity of the Proposed Turning Basin In this analysis, LIDAR data are processed to derive reef slope (vertical relief divided by horizontal distance) at each pixel in the scene. Since each pixel has the same horizontal distance, pixels with high slope indicate high vertical relief.	What does slope have to do with rugosity? A high slope does not mean a high vertical relief. Based on field observations, a high slope can have a low vertical relief. An adequate resource assessment such as the use of an in situ method for coral size frequencies and rugosity needs to be conducted and included in the FEIS.

Thank you for your comment.

J-018-235

Thank you for your comment. Although in the CVN Capable Berthing Study Alternative 1 is the Former SRF and Alternative 2 is Polaris Point, the EIS presents the opposite. Given that there are only two alternatives carried forward for analysis in the EIS, it is more logical to present the preferred alternative first even though this differs from the terminology used in the CVN Capable Berthing Study. The information is the same; only the numbering of the Alternative is different between the study and the EIS. Thus, it is anticipated that confusion would be minimal.

J-018-236

Thank you for your comment. The HEA referred to (Volume 4, Chapter 11 and Volume 9, Appendix E) is a description of how mitigation could look. Through coordination with our regulatory partners the Navy will develop a compensatory mitigation package that will conform to the regulatory guidance provided by USACE.

10		DAWR Co			IS Guam and CNM	Comm	ocation on Response Matrix am and CNMI Military Relocation	Page 133 of 135
					eation	-	EIS/OEIS Statement	GDAWR's Comment
		Volume	Page	Paragraph	Section	Commenter		
J-018	410	9	2	2	Appendix J	GDAWR	Appendix J. Supplemental Aircraft Carrier Marice Surveys, Email Letter from JT For your reference 1 am also including a word document that provides a description of each reviewers affiliation and credentials.	The document fails to provide any information on the reviewer's experience in general. It also fails to provide any information on the reviewer's expertise as it pertains to coral reef impact assessments and the Habitat Equivalency Analysis (HEA). Many of the reviewers may not have any experience or expertise with coral reef impact assessments and HEA and may not be giving accurate comments. The FEIS needs to provide the reviewers experience and expertise to validate their comments.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-237

Thank you for your comment. As stated, The EIS provides a description of each reviewers affiliations and credentials. Thus, the contact information for these reviewers has been provided if the commenter requires additional information. The EIS is not the appropriate format to provide experience and expertise for all cited or reference authors and materials.

	GDAW	R-Commer	nts 2-16-2	010	D	Comment Response Matrix Draft EIS/OEIS Guam and CNMI Military Relocation			
			T ==		cation		EIS/OEIS Statement		
	-	Volume	Page	Paragraph	Section	Commenter	EIS/OEIS Statement	GDAWR's Comment	
)18-	411	9	29	2	Appendix J	GDAWR	Appendix J. Assessment of Benthic Community Structure in the Vicinity of the Proposed Turning BasinAcknowledging these limitations, size-frequency of coral colonies was evaluated from transect photo-quadrats using a built-in function of CPC software to determine greatest chord length. Colonies lying partially within the frame were measured as the section bounded by the quadrat. Correction factors developed by Zvuloni et al. (2008) were not applied as these empirical factors were developed using computer simulations with all colonies of a size that was small compared to the sampling unit. Such a condition clearly did not apply to the coral populations in Apra Harbor (see section 4.2). In addition, use of the "center rule" (Zvuloni et al. 2008) where colonies with centers within the sampling unit are included, but those with centers outside the sampling unit excluded, is not possible with photo-quadrats as centers of colonies outside the sample frame are not visible. As a result, there is an inherent bias in the size-frequency data toward smaller distributions as colonies on the boundaries of the sampling frame will appear smaller than actual size.	1) This indicates that coral colon size is measured as the length portion of the colony falling within the quadrat. Length is bounded by the quadrat. The method will overestimate smal size classes and underestimate larger size classes because con will not be measured complete A large coral may appear in tw quadrats and allocated to a sm size class than what it really is. 2) Your reviewer Dr. Katharina Fabricius also stated the photo method does not allow assessm of neither size frequency nor si of large colonies (they don't fit in the photo frames). 3) An adequate resource assessme such as the use of an in situ method to determine coral size needs to be confucted and included in the FEIS.	

Thank you for your comment.

Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS is updated to reflect the latest developments in this review.

The Navy coral surveys were conducted in-situ at the sites of the proposed project area. As noted previously, the Navy has used a scientifically recognized and defensible survey methodology. Further, the analysis was performed by recognized experts from the University of Hawaii and the National Coral Reef Institute.

		G	DAWR C	omments	s to DEIS/OF	EIS Guam and CNM	II Military Relo	cation	Page 135 of 135
	GD.	ΑW	R-Commen	ts 2-16-20					
	ħ		Volume	Page	Paragraph	Section Section	Commenter	EIS/OEIS Statement	GDAWR's Comment
J-018-2	39	12	9	9	3	Appendix J	GDA WR	Appendix J. Assessment of Benthic Community Structure in the Vicinity of the Proposed Turning Basin, In brief, a matrix of 50 randomly distributed points was overlain on each photoquadrat image, and the organism or substrate type lying beneath each point was identified to the lowest taxonomic classification possible.	The DEIS indicates that the photoquadrat method used counted any part of a coral colony that occurred within the quadrat frame. The method is inadequate because it produces counts that overestimate colony densities due to double counting of colonies on contiguously placed quadrats.
									An adequate resource assessment such as the use of an in situ method for coral size frequencies needs to be conducted and included in the FEIS.

Guam and CNMI Military Relocation DEIS/OEIS

J-018-239

Thank you for your comment. Habitat assessment methodologies which evaluate the function of affected aquatic resources, such as coral reef ecosystems, are an evolving science and the adequacies of existing and new methodologies are heavily debated in the scientific community. Ideally, a standard assessment technique that accurately characterizes and quantifies losses and gains of coral reef ecosystem functions would be used. However, rulemaking for the Compensatory Mitigation Rule recognizes the wide variety of aquatic resources present in the United States and the evolving nature of science regarding aquatic ecosystem restoration make the establishment of standard assessment methodologies impracticable. The assessment for this EIS used an historically approved methodology (percent coral cover), supplemented by other methods such as the use of Light Detection and Ranging (LIDAR) satellite photos, for quantifying impacts to affected coral reef ecosystems impacted by the proposed transient CVN wharf and associated dredging. DoD believes that use of the percent coral cover methodology, supplemented by use of LIDAR satellite photos, is the "best currently available science" to attempt to capture the thousands of elements that comprise the function of a coral reef ecosystem. DoD's assessment is currently under review by the US Army Corps of Engineers, the agency charged with implementing dredge and fill permits under CWA Section 404, and other Federal agencies. The FEIS will be updated to reflect the latest developments in this review.

GDAWR Comments to Military Relocation DEIS/OEIS

References

Bentivog!io A. 2003. Final Report. Compensatory Mitigation for Coral Reef Impacts in the Pacific Islands. United States Fish and Wildlife Service Pacific Islands Fish and Wildlife Office, Honolulu, Hawaii.

FAO. © 2008-2010. Fishing Equipment. Fish Aggregating Device (FAD). Text by J. Prado. In: FAO Fisheries and Aquaculture Department [online]. Rome. Updated 27 May 2005. [Cited 4 February 2010]. http://www.fao.org/fishery/equipment/fad/en

https://www.cia.gov/library/publications/the-world-factbook/index.html

Pacific Basin Environmental Consultant, Inc. 1986. Monthly Monitoring Reports Adotgan Point Ammunition Wharf June to July 1986. Engineering Services Contract N62766-84-D-0023. Department of the Navy, San Francisco, Ca.

Pears RJ, Williams D McB. 2005. Potential effects of artificial reefs on the Great Barrier Reef: background paper. CRC Reef Research Centre Technical Report No. 60, CRC Reef Research Centre, Townsville, Australia.



I MAGA' LAHEN GUAHAN GOVERNOR OF GUAM FELIX P. CAMACHO I SEGUNDO NA MAGA' LAHEN GUAHAN LT. GOVERNOR OF GUAM MICHAEL W. CRUZ M.D. ADMINASTRADOT ADMINISTRATOR ANTHONY C. BLAZ

Aturidad Inadilanton Ikunumihan Guahan

February 17, 2010

Joint Guam Program Office c/o Naval Facilities Engineering Command Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, Hawaii 96860-3134

Attention: GPMO

Comments on the Draft EIS/OEIS for Guam and CNMI Military Relocation

Hafa Adai!

This letter provides comments from the Guam Economic Development Authority (GEDA) with input from the Governor's Economic Development Subcommittee (EDS) on the Department of the Navy, on behalf of the Department of Defense (DoD), proposal to relocate Marines from Okinawa, develop aircraft carrier berthing and establish an Army Air and Missile Defense Task Force in Guam.

J-019-001

Provided that the Navy, the DoD and the federal government and its agencies take actions that assure the people of Guam a sustainable economic, social and cultural quality of life, GEDA supports the proposed actions, as our analysis of the DEIS indicates that the economic costs of the proposed actions may putweigh economic benefits. However, other than the buildup, there are no immediate alternatives on he horizon to overcome our downward spiral and grow the economy.

J-019-002

o ensure economic sustainability so that Guam residents and the island's economy obtain maximum hort and long-term benefits from the buildup, DoD must implement mitigation measures. The mitigation measures provided, address the negative impacts in the DEIS and were formulated based on key economic development mandates to assist local enterprise, and promote investments of entrepreneurial capital in Guam creating vitally needed services, strengthening current industries, and developing new and emerging industries. The DoD must include recommended mitigation measures in the Final Environmental Impact Statement (FEIS) and in the Record of Decision (ROD).

J-019-003

t is unfortunate that many of the comments contained in this report could have been addressed in the DEIS as many of them were identified earlier in the scoping comments submitted by the EDS and GEDA. Our scoping comments in no uncertain terms, highlighted the direct causal relationship between the impacts of the proposed actions on the natural environment and the economic harm to the community that could have been addressed in the DEIS. Enclosed is a copy of our scoping comments. J-019-004 On frequent occasions, GEDA and the Government of Guam requested the Navy to inform us of the extent to which scoping comments were being addressed in the DEIS. Not only did the Navy fail to provide this information but in not doing so, the Navy created a sense of mistrust that was exacerbated by inaccurate statements during meetings concerning land acquisition and local business participation. It is our sincere hope that the DoD will incorporate recommendations contained in this letter and its enclosures into the FEIS and ROD.

ITC BUILDING, SUITE 511 590 SCOUTH MARINE CORPS DRIVE, TAMUNING, GUAM 96913 TEL. (671) 647-4332 FAX (671) 649-4146 EMAIL: HELP@INVESTGUAM.COM WEB SITE: WWW.INVESTGUAM.COM
"THIS INSTITUTION IS AN EQUAL OPPORTUNITY PROVIDER AND EMPLOYER".

Guam and CNMI Military Relocation DEIS/OEIS

J-019-001

Thank you for your comment.

J-019-002

Thank you for your comment. As mentioned, there are mitigation measures discussed throughout the FEIS. The mitigation measures that would be committed to by DoD would be identified in the Record of Decision (ROD).

J-019-003

Thank you for your comment.

J-019-004

Thank you for your comment. Responses to the issues identified in this letter are included alongside the appropriate comments.

J-019-006

J-019-007

As indicated above, there is a causal relationship between the impact of the proposed actions on the natural environment and the economic benefits and costs to the community. Usually, impacts that are a result of proposed actions must be discussed in sufficient enough detail to allow informed choice among alternatives, including the no action alternative. However, in Guam's case the DEIS states that economic impacts affect the island regardless of the alternative selected due to its small size. Under different circumstances, the three proposed actions would have been discussed individually to allow detailed study of impacts that result from the preferred alternatives. However, the DEIS was especially large in scale and scope; incorporating three major proposed actions into one study. Therefore, even greater importance must be given to the adverse impacts of the proposed actions and recommendations that would eliminate or mitigate these impacts on the human environment.

A major concern is the financial costs of the proposed actions on the people of Guam. The DEIS estimates that \$2.1 Billion in gross receipts tax, corporate tax and personal income tax would be generated over the 10 year period from 2010 to 2020. However, information provided at the Navy-sponsored Guam Industry Forum III indicates that GovGuam expects to pay over \$4 Billion in utility infrastructure costs to support the buildup and because the buildup has accelerated the need for specific projects required for organic growth. These costs do not include social service and infrastructure costs in health and medical care, education, public safety and general government services.

The FEIS must fully disclose these costs as it is doubtful that the federal government or the private sector would support projects that have even a 1:1 cost benefit ratio. It is recognized that other economic benefits resulting from the proposed actions may not be contained in the DEIS, however the DEIS is insufficient in that it does not consider a comprehensive quantification of infrastructure costs that will be required by GovGuam agencies. This, combined with the overestimation of the economic impact by using an economic model that clearly overstates the financial and economic projections, results in a very skewed analysis of the proposed projects on Guam.

The ebb and flow of economic activity associated with the military buildup will create enormous pressures on the residents of Guam during the "ramp up" portion of the buildup, however, to truly benefit from the effects of the buildup, Guam is challenged to maintain an increased standard of living for its residents after the operational period is achieved. While the identification of impacts is provided, focus on mitigating these adverse impacts is noticeably lacking in the DEIS. The DEIS does not offer any discussion on how Guam can accommodate the Marine relocation and still provide adequate public services, living wage employment opportunities and mitigate any sociocultural issues identified in the DEIS.

Furthermore, in GEDA's role as central manager for the government of Guam, as of December 2009, GovGuam has nearly reached its Debt Ceiling set by the Organic Act. The debt capacity of the island is based on 10% of the aggregate tax valuation property in Guam. The U.S. Supreme Court 2007 decision in the case of Limtiaco v. Camacho interpreted "aggregate tax valuation" to mean the assessed valuation (i.e. the amount upon which the property tax rate is levied, as opposed to the appraised value). Assessed value has been defined by Guam statute to equal 90% of appraised value.

J-019-005

Thank you for your comment. The economic impact analysis in the EIS does not differ between alternatives because the analysis is done at an island-wide level of detail - the particular location of construction or operations, as long as it is on Guam, does not significantly affect island-wide analysis.

Another study, funded by DoD, the Fiscal Impact Assessment Study will present more detailed information on the financial/fiscal condition of GovGuam's expected revenues and expenditures.

J-019-006

Comment noted.

J-019-007

Thank you for your comment. Please see Section 4.4.1 of the Socioeconomic Impact Assessment Study (SIAS), which is Appendix F, Volume 9 of the DEIS for information on the expected impacts the proposed action would have on the government of Guam's tax revenues. The analysis in the SIAS includes both direct and indirect impacts including those who move to Guam for work related to the proposed action. Another study, funded by DoD's Office of Economic Adjustment is underway, this is the Fiscal Impact Assessment that identifies the needs of the government of Guam and where the money to fund the needs could come from.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

A summary of Guam's indebtedness vs. debt ceiling is as follows, as of Dec 2009:

 Aggregate Value Less Exemptions (as of October 31, 2009)

 Land
 \$4,855,761,930

 Building
 \$3,934,936,524

 Total Aggregate Value
 \$8,790,698,454

Calculation of Available GovGuam Debt Capacity

Debt Ceiling (10% of Aggregate Value) \$ 879,069,845 Less GovGuam Outstanding Debt (as of 12/09) (\$ 753,084,289) Amount of Available GovGuam Debt Capacity \$ 125,985,557

The amount available is misleading, however, as there is currently an \$88 million USDA landfill loan pending, which would be applied to the debt ceiling if USDA requires a pledge of Section 30 revenues. Including this loan, there would be less than 5% of "cushion" in the debt ceiling.

As plainly shown above, the additional borrowing capacity of GovGuam does not exist. Any additional GovGuam borrowing anticipated by DOD would be added against the debt ceiling, with the exception of autonomous agencies such as Guam Power Authority, Guam Waterworks Authority, Guam International Airport Authority and Port Authority of Guam (to the extent that it does not rely on revenues of GovGuam).

Two hallmarks of sustainable economic development, the creation of jobs and small business development are not adequately addressed in the DEIS. First of all, when factoring in any declines in unemployment rates, the DEIS should consider the relationship between unemployment rates in Guam and actual employment. The unemployment rate is not necessarily an accurate indication of the unemployment/employment situation in Guam. For example, in September 2009, the unemployment rate increased by 1% to 9.3%, reflecting an increased number of unemployed persons. However, for that same time period, the number of employed persons increased by 4% according to the report. The unemployment figure also includes teenagers who are 16 years old through 24 years old, making up 40% of the September 2009 unemployed population. The DEIS should consider how many young persons between the ages of 18-24, who were not previously in the work force, could fill the new jobs. Furthermore, as stated in the DEIS out-migration of in-migrant workers and their dependents is an issue. The unconstrained scenario assumes prompt out-migration of temporary population as military construction concludes. Indeed, this is a serious issue that should be addressed further by the DEIS. By assuming prompt out-migration, the study ignores the serous potential costs of a larger in-migrant population in Guam that will have serious adverse impacts on public resources during the buildup process and beyond. Recommendation would be to support the constrained scenario as a preferred alternative.

The DEIS states that there are challenges related to human resources due to Guam's remoteness, size and lack of experience. It blames GovGuam's performance on human resources and lack of governance, while failing to describe circumstances under which

Guam and CNMI Military Relocation DEIS/OEIS

J-019-008

Thank you for your comments, they are helpful and noteworthy. The unconstrained scenario and the constrained scenario do not represent different alternatives to the proposed action. The two scenarios are merely projections, using different modeling assumptions, and the purpose of the two varying projections is to present a range of possible outcomes.

Another study, funded by DoD, the Fiscal Impact Assessment Study will have more detail about the particular financial/fiscal condition of GovGuam as related to government income and expenditures.

Guam was subject for the last fifty years. Especially in the last 10 years, Guam has dealt with more than three super typhoons, an earthquake of extreme magnitude, the Asian economic crisis, mandated tax policies with no subsidized funding, and the global economic crisis to name a few. To make a simple statement implying that GovGuam has mismanaged its Government without giving the full context is irresponsible on the part of the DEIS. In addition, it does not describe how it derived the conclusion that Guam does not have skilled technical or managerial workers based on its remote location and size.

In the matter of small business development, as in any economy, small businesses are the backbone of our island's economy, the DEIS is deficient in its coverage of local business contract opportunities and constraints. The only aspect dealt with in the DEIS is Alaskan contractors and their race-based ability to obtain contracts. GEDA's scoping comments presented many other opportunities and constraints that it requested should be addressed in the DEIS which was not done. As the Navy has publicly released its NavFac Execution and Acquistion Plan which deals with contracting and since the plan provides details regarding contracting opportunities associated with the proposed action, the DEIS should evaluate the impacts on local business contract opportunities in line with the provisions of this plan. Additionally, as this plan includes DPRI as well as non-DPRI funding and other proposals such as the establishment of Joint Base Guam/Joint Region Marianas, the effects of the plan must be addressed in the Cumulative Impact section of the DEIS. There is inadequate analysis of the benefits to accrue to Guam businesses. The proponent of the action has not "set-aside" contractual funding for local or even small businesses. The "expectation" that Guam businesses will benefit from various opportunities associated with the proposed action must be identified and quantified through proper study.

The recommendations contained in this letter and its enclosures will mitigate the following impacts on the human environment from the proposed actions as identified in Volumes 2, 4, 5 and 7 of the DEIS:

- The time lag between when GovGuam needs revenue and when revenue is actually collected.
- · Front-loading infrastructure costs.
- Use of other sources of revenue to fund civilian improvements as Section 30 does not contribute significantly to government revenues.
- Increase pressured for substantial borrowing resulting from increased infrastructure demands created by the proposed actions.
- The majority of value from buildup is never realized when imported goods are sold on-base and profits are not reinvested locally. Much of the expenditures by military personnel are made at on-base establishments that send profits off-island.
- The recession-like period after 2014 wherein businesses would have to end or cut back and many workers would have to out-migrate due to job loss.
- · The cost of goods and services rising faster than the incomes of Guam workers.
- Less opportunity for Guam companies to participate in the construction and operational phases.
- Over-supply of housing after 2015 (assuming that financing institutions would even finance construction), driving housing prices down for residents and substantial losses for developers and landlords.

Guam and CNMI Military Relocation DEIS/OEIS

J-019-009

Thank you for your comment. Public comments on the DEIS are an important part of the decision-making process. This information becomes part of the FEIS and is evaluated when DoD prepares the FEIS and issues a Record of Decision at the end of the NEPA process. The changes you recommend have been implemented for the Final EIS. Specific contracting procedures are not discussed in the EIS.

- Loss of labor to higher paying jobs and pressure for increased wages in existing
 jobs.
- Impaired competition with inexpensive Asian tourist destinations and conflicts between military and tourist operations.
- Few new federal civil service jobs for local residents.
- Increased level of service to be provided by most local government agencies.

J-019-011

DEIS indicates that a "suite of mitigation measures are under consideration to mitigate impacts to socioeconomics". A clear description of these mitigation measures and how they are expected to mitigate socioeconomic impacts must be provided. Following are recommended mitigation measures that should be included in the ROD, to increase the benefits of the proposed actions on the human environment and the economy of Guam:

- The DoD (and federal government) must identify and allocate funding for utility and social infrastructure improvements needed on Guam as a result of the proposed actions.
- The DoD working in conjunction with the Guam Department of Revenue and Taxation and the Internal Revenue Service must implement a collaborative monitoring system to ensure that all businesses and individuals receiving military contracts and payments abide by Guam tax law.
- The DoD should remove all barriers that disallow Guam residents every opportunity to qualify for proposed action-related employment during both the construction and operational phases.
- The DoD should remove all barriers that disallow resident businesses the
 opportunity to participate and qualify for contract awards both as prime
 contractors and subcontractors.
- The DoD with support from other federal agencies including the U. S. Department
 of Commerce and the U. S. Department of Agriculture must provide funding
 support to the Government of Guam to develop an economic plan which will
 examine and provide recommendations on how the benefits derived from the few
 short years of growth spurred by military expansion will sustain the Guam
 economy in the future.
- The DoD with support from other federal agencies must provide funding support
 to design, test and implement an econometric model for the island. The model
 would go beyond the Gross Island Product calculations to identify income, output,
 and employment multipliers including the multiplier effect of military spending
 on Guam.
- The DOD with support from other federal agencies must provide funding support to GovGuam to mitigate adverse impacts on non-DOD land.

J-019-010

Thank you for your comment. Jobs analysis was based upon the number of dollars estimated to enter the Guam economy as a result of the proposed action. Overall, at the 2014 peak of construction and beginning of operations, the civilian labor force demand with the proposed action is 75% higher than it otherwise would have been without the project. At 2020, the difference declines to 12%. Analysis took into account historical information of people arriving on Guam from other areas (such as the Phillippines and FAS) in search of jobs, in order to determine the number of new jobs generated by the proposed action that would go to Guam residents. Overall, analysis indicated that at the 2014 construction peak, Guam residents are expected to capture approximately 2,566 jobs and off-island workers would take 15,157 jobs. By 2020, the number of these jobs filled by Guam residents would decrease to 2,211 jobs, and off-island worker jobs would decrease to 3,935 jobs.

Please see the Socioeconomic Impact Assessment Study (Appendix F of the EIS), Section 4.3.7 for information on Tourism. The analysis of the impacts on tourism generally reflect that the impacts of the proposed action would have on tourism would be mixed. Tourism may decline as some visitors may shy away from Guam due to construction activities and an increased military presence on the island but that would be made up for by increased visits from members of the military who are tourists while their ships are docked on Guam. In the Socioeconomic Impact Assessment Study (SIAS), found in Appendix F of Volume 9 in the EIS, the number of off-island H2B visa foreign laborers was estimated. Two scenarios were reviewed: the maximal number (unconstrained) and a constrained scenario. In Section 4.4 of the SIAS, there is detailed discussion and analysis of impacts to public services; some of the public services would be impacted by temporary workers and some would not. The Navy would require contractors who work on DoD projects to provide healthcare for their employees, including offisland/H2B workers. A small percentage may seek health and/or social

- To assist in improving GovGuam's potential for participating in the private lending market, the Department of Defense must provide funding assistance to the Guam Economic Development Authority, which by local law is charged with providing oversight and guidance to GovGuam and its agencies and instrumentalities with respect to debt financing and cash and asset management, to retain financial consultancy services to carry out increased financial management responsibilities and to ensure that debt issuances obtain the best financing terms possible.
- Similar to the requirements of the Base Realignment and Closure Act, the DoD
 must initiate and support administrative remedies or Congressional action to
 establish local business preference criteria for all proposed military expansion
 construction and operation contracts.
- The Joint Guam Program Office (JGPO) in conjunction with the Naval Facilities Engineering Command Marianas (NavFacMar) with oversight from the U. S.
 Small Business Administration must tailor scopes of work for construction and operational phases for maximum participation by local/small businesses.
- NavFacMar shall police subcontracting plans to ensure that prime contractor commitments to local/small businesses are maintained throughout the life of the contract and periodic reports shall be made public.
- The DoD must commit that the determination that the military has met small business goals must be based upon small business contracts awarded in Guam and not the rest of the nation.
- The Commander Joint Region Marianas must study the impact on local/small businesses of Base Operating Support contracts to ascertain best practices for small businesses on Guam and publicize the results of its study.
- In negotiations with the Government of Japan, the DoD and Department of State
 must ensure that monies available from the Government of Japan and Special
 Purpose Entities (SPE) to implement the proposed actions provide for maximum
 local/small business participation.
- The DoD must support Guam Chamber of Commerce initiatives to allow local wholesalers to compete against off-island suppliers of goods at the Navy Exchange and Commissaries.
- The DoD through the Defense Logistics Agency and the Defense Commissary Agency must require use of local franchises and discourage/disallow the practice of purchasing goods from off-island franchises when local franchises exist.
- JGPO, NavFacMar, NavFacPacific (NavFacPac) and other DoD entities must revise the NavFac Execution and Acquisition Plan to award the National Goal of at least 23% of the total funding made available for the proposed actions including funding from the U. S. and Japanese Governments and Defense Policy

services provided by Guam. However, workers would also contribute to the Government of Guam revenues in form of personal income and gross receipts taxes; corporations would pay corporate income taxes (See section 4.3.3, page 4-24 of the SIAS). The additional money would flow into Guam's revenues and, depending on executive and legislative branches decisions, could be used to provide for additional public health and social services. Relating to the population figure of about 80,000 people; it should be noted the figure represents a maximal figure when most of the construction workers are still on Guam and the military populations arrive (2014); once construction is completed, the operational population would be about 33,400 (2016) (see the SIAS, Table ES-1, on page iii). Mitigation measures (as appropriate) to address the significant impacts will be discussed in the Final EIS.

J-019-011

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-019-012

Thank for your comment and recommendations. DoD continues to work closely with Government of Guam and federal agencies on these important issues associated with the proposed military relocation program.

J-019-013

Review Initiative (DPRI) and non-DPRI funding during both the construction and operational phases to entice local and small businesses to participate in contracting opportunities while current issues associated with securing performance and payment bonds, insurance and other doing business issues are worked out.

- DoD in conjunction with the U. S. General Services Administration shall return federal lands not utilized by the military for current activities or activities associated with the proposed actions pursuant to Public Law 103-339 within one year after the signing of the Record of Decision.
- The DoD working in conjunction with the Guam Department of Revenue and Taxation and the Internal Revenue Service must evaluate the military practice of stationing active duty personnel on a three month or less rotating basis to ensure that Guam can collect income taxes as provided under Section 30 of the Organic Act.
- DoD support the intent and advise all federal agencies that while every effort
 must be taken by GovGuam to account for taxpayer money previously spent
 under federal grant programs, previous performance cannot be an obstacle to the
 provision of grant assistance for activities associated with military buildup.
- DoD to provide funding to establish a Guam "data clearinghouse," to centralize and standardize pertinent economic data. Through a collaborative leadership that includes that business community, this pool of data creators and users, could set priorities and guide the formation of policy, and conduct cost-benefit analyses to include the determination of required resources to gather the data required to compile, and results of which would be the "priority-driver." This centralized, integrated system would then be equipped to address such issues as validity and consistency of data, and could even utilize "data nomenclature" developed and standardized for Guam, and which would be credible. This information-sharing paradigm would benefit everyone involved in sustaining Guam's economy, especially with valuable data that would enable the community to make good decisions and lasting contributions to Guam's economic progress.
- Should the Government of Guam allow the use of its property for buildup purposes, DoD should respect a provision that disallows non-local companies from building or managing facilities on such property.
- Economic development in a resurging economy means supporting existing small
 businesses, the core industries of tourism and the military, and attracting
 appropriate businesses to the community, to encourage the creation of jobs and
 employment opportunities, which foster and improve a strong, diversified
 economy for the future. With that in mind, to mitigate this "recession-like"
 period after 2014, the following GEDA initiatives should receive funding support:

Guam and CNMI Military Relocation DEIS/OEIS

J-019-013

Thank you for your comment. DoD is working with Government of Guam agencies to minimize adverse impacts associated with the proposed military relocation program. Potential mitigation measures are included in the EIS. Mitigation measures that may address some of the issues raised in your comment would be selected for implementation by the DoD in the Record of Decision (ROD).

J-019-014

- "Buy Local" Incentive and Awareness Program to promote the importance and value of local businesses' role in growing the island's economy (as referenced in the 2005 Realigning a Resurging Economy report).
- Development and implementation of a "Made on Guam" incentive program through the revitalization of the "Guam Product Seal" program.
- Research & Technical Economic mission to Okinawa, in partnership with the
 University of Guam's, Pacific Center for Economic Initiatives, to conduct an
 extensive study on the socioeconomic impacts of the military presence in
 Okinawa, to use as the bases to formulate best economic practices and
 business strategies for Guam's government and business community relative
 to the military buildup.
- Research & Technical Economic, Employment, & Education mission to El Paso Texas, in partnership with the University of Guam's, Pacific Center for Economic Initiatives, to conduct an extensive review of the community's ongoing military buildup process, identify best economic practices and business strategies for Guam's government and business community (as referenced in a White Paper written by Dr. Elizabeth Hawthorne, "The Case for Linking Education and Economic Development."
- Provide seed funding for a new financial assistance program, through GEDA, tailored to meet the needs of Guam-based small businesses such as obtaining bonding for federal contracting opportunities.
- Provide funding support for the development and implementation of an integrated marketing communications community educational and promotional campaign targeting the local community on positioning themselves and the island for growth through the various programs and resources available through the entities aligned under "The Power of E3 +1 (Employment, Education & Economic Development plus Ethics) as established by the Governor of Guam through the Guam Workforce Investment Board in 2004.
- Assist in the development of a regional farmers' cooperative, leveraging the agricultural resources of the region to meet the needs of the projected growth population.
- DoD to provide funding support for GEDA's initiative to reach the approximate 60,000 Chamorros that reside in the U.S. mainland, a significant number of them left over the past several years due to economic hardships. The mission will target areas to maximize reach, and appeal to former Guam residents of the opportunities for employment and entrepreneurship over the next several years.

J-019-015

The enclosed comments are in the form of two spreadsheets. The first identify the economic impacts, Navy's suggested mitigation examples and additional mitigation recommendations. The second spreadsheet contains specific comments on the DEIS, in the format provided by the Navy. Both spreadsheets and this letter document perceived impacts from the proposed actions and actionable mitigation measures.

J-019-016

Finally, we strongly suggest that long standing Federal/Territorial issues including war reparations, return of unneeded federal land and other such issues and the DoD position on these issues be incorporated into the Final EIS as a demonstration of the federal

Guam and CNMI Military Relocation DEIS/OEIS

J-019-014

Thank you for your comment. The Final EIS has been updated (Volume 2) to better address impacts on social services.

J-019-015

Thank you for your comment.

J-019-016

Thank you for your comment. Topics such as war experiences, war reparations, and veterans benefits are important issues but are not part of the proposed action. Comments related to these issues were numerous and indicate underlying social and political dissatisfaction with a broader range of federal-territorial relations outside the scope of DoD legal authority. The various EIS public engagement forums provided an indirect avenue for informing local and federal policy-makers of issues that are important to a significant segment of the community.

J-019-017

government's commitment to resolve these issues. We also suggest that the policies contained in Substitute Resolution No. 275-30, adopted by *I Mina'Trenta Na Liheslaturan Guahan* be addressed in the FEIS.

J-019-018

In the end, the Final EIS, the Record of Decision and all recommended mitigation measures must result in the conclusion that benefits far outweigh costs. We thank you for the opportunity to provide comments in order to seek Navy's commitment to mitigate adverse economic effects and enhance positive economic effects from the proposed actions.

Put Respetu,

ANTHONY C. BLAZ

Administrator

Enclosures

- 1. Scoping Comments
- 2. Mitigation Recommendations
- 3. Specific Comments on DEIS

Cc: The Honorable Felix P. Camacho, Governor of Guam
The Honorable Mike W. Cruz, Lieutenant Governor of Guam
The Honorable Frank B. Aguon, Jr. Chairman, Committee on Economic
Development, Health and Human Services and Judiciary
Members, Governor's Economic Development Subcommittee
Directors, GEDA Board of Directors

J-019-017

Thank you for your comment. Topics such as the political status of Guam are important issues but are not part of the proposed action. Comments related to these issues were numerous and indicate underlying social and political dissatisfaction with longstanding federal-territorial status issues outside the scope of DoD legal authority. The various EIS public engagement forums provided an indirect avenue for informing some and reminding others in local and federal policy-making institutions of issues that are important to a significant segment of the Guam community.

J-019-018

Thank you for your comment.

whaterial bornowing (Vol. 7 page 3-59) SIAS Appendix P page 4-20 3 ASS Vol. 9 Appendix P page 3- There will be a received like period after 2014 wherein businesses would have to end or cut back and many movelum would have to end or cut back and many enders would have to end-rigitate due to job loss. The end of this boentomperiod would technically be as concernic recession. (Appendix F, page-4-147 table 4-3- 14) There will be a received like period after 2014 wherein "Assist GovGeam with technical assistance, development and implementation of I F. Setimate in ender to inclinate GovGeam access of Compute Impact and of other related finding. *Assist GovGeam with technical assistance, development and of other related finding. *Assist GovGeam with technical assistance, development and of other related finding. *Assist GovGeam with technical assistance, development and of other related finding. *Assist GovGeam with technical assistance, development and of other related finding. *Assist GovGeam with technical assistance, development and of other related finding. *Assist GovGeam with technical assistance, development and of other related finding. *Assist GovGeam with technical assistance, development and of other related finding. *Assist GovGeam with technical assistance, development and of other related finding. *Assist GovGeam with technical assistance, development and implementation of our public	angilative Branches of the following overament-, with Polarker areas provides containing training to GovGuan- ternoadi involved in preparing requests for grant, Johan and direct Corposososian flandings—Scholf must invitate and import efforts in Congress to craft and pass acreat membra garpoptisms measures to find local opprimental directly and inducedly required by the reproposal actions. For ensure the creation of new jobs after 2014, IGPO and Vary-Palder hald cushishin a program that guarantees local implement during the operational phase. Minimize placediance on Clarker and the control of the Area of the control of the place of the programment of the control of the programment of the programment of the programment of the programment of programment of the control of programment of the programment of the programme
--	---

Guam Economic Development Authority

Guam and CNMI Military Relocation DEIS/OEIS

J-019-019

Thank you for your comment. Public comments on the DEIS are an important part of the decision-making process. This information becomes part of the FEIS and is evaluated when DoD prepares the FEIS and issues a Record of Decision at the end of the NEPA process.

As you note, there would be an expected decline in economic activity as the construction phase of the proposed action winds down. However, all economic variables analyzed are expected to be at higher levels of benefit for every year in the foreseeable future than they otherwise would be without the proposed action. For instance, please note Figure 4.3-1 of the Socioeconomic Impact Assessment Study (Appendix F of the DEIS), which shows higher levels of demand for labor during every year, with the proposed action, compared to the baseline trend which shows demand for labor without the proposed action.

Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

	January 2010	
Quan weekers will lively outlink to see the out of country to the country of the		(FIGO deal) obtain frunting for and shall develop a monitoring plan in conjunction with the BLS DOL and BOSF to admist the cost of living on a armad basis and to compace COL to household incomes. The monitoring plan all certabilish introdución which to ligard the need for identifying and finaling methods to ensure that the cost of goods and services due not the feature data incomes. During the construction plane, GIGO and NewFacidar must esterial an policy that coordination companies must perhaps total agricultural and equivalent products of the control of control of control of control of control of control of the control of the control of control of control of the control of the control of control of control of the control of the control of control of control of control of the control of the control of control
The operational phase may being more significant business opportunities for Game companies was how most of the total consecution budget in awarded to Gram companies? (VAL 9 SAIS page 4-35)	 DoD one reduce construction and operations tempo to reduce the advence impacts of a large increase in construction population on Osan — eliminating the population to occan no but effect in detrified in the analysis. *Probibili dependents from accompanying Maximes until construction is complete 	FOFO or MN-Fisch/ar must analyze the nature and extent of recurrencing in Orienze for operational requirements in support of the Mariner and publicizes the results of this unalyzes within one year following the issuance of the Root on allow bend conceasates to prepare for contracts to he left claring the operational phase. "The Sec of the Army Shatting- regues a similar analysis reparting the Army Missile DeCase System. 40FO, NNF-Echler, and SecArmy must develop and DO Junet support a plant gives preference to local beatinesses in contracting during the operational phase.

Guara Economic Development Authority

Guam and CNMI Military Relocation DEIS/OEIS

J-019-020

Thank you for your comment. Relating to cost of living and the proposed military buildup, it is noted that the history of inflation and recession of Guam's economy from the 1970s to present was provided on page 3-47 of the SIAS. In subsection 4.3.1.4 (beginning page 4-10) of the SIAS, the subject of impact on the standard of living is addressed, stating: "Standard of living is a measure of purchasing power. If the standard of living increases for a person it means they can purchase more goods and services. If the standard of living declines for that person, he or she can purchase fewer goods and services. Changes in a person's standard of living are determined by their income and the prices of the goods and services they tend to purchase. A person's standard of living will increase if their income rises faster than the prices of goods and services they tend to purchase. A person's standard of living will decline if the prices of goods and services they tend to purchase rise faster than the person's income. In both the construction and operational components, the average wage of workers would increase as a function of greater demand for labor. However, the price of goods and services purchased by individuals would rise as well. It cannot be definitively predicted whether wages or the price of goods and services would increase at a faster pace. If wages earned by a particular household rise more quickly than the price of goods and services, then the standard of living would increase. If the price of goods and services rises more quickly than wages, the standard of living would decrease. For households on fixed incomes, the result would be reduced purchasing power. Those with the ability to quickly renegotiate their wages will have a better chance at maintaining or increasing their standard of living." On page 4-11 of the SIAS, the discussion continues and discusses the income of military related construction and operational jobs that will, on the average, be higher than the present average wages on Guam. It concludes: "In terms of cost of living, from 2000 to 2008 Guam workers have seen their standard of living decline by 30% and there is no reason to expect the military buildup to reverse that trend – Guam workers will likely to

If new beauting is combinated for workers, as every analysis after 2015 would drive housely precise forces for preferences, but would be by mean the district for preferences, but would have by mean the district forces for correspond to the district forces for force	Asset: Owo-Game in seeding federal finding to expand the stock of low-to- moderate income housing on Claum, reduce impacts on housing availability and expense	"SecNar and Sooffer shall establish a policy that fluture family and leachelors beauing required by the millimy shall be construed and mensaged by local private companies that can meet performance and capability requirements. I-SPO, SecNar and SecPal fronts actively support GoorGuam efforts to allow Guam residents to equility for USDA teath housing and other programm even if Grossos data demonstrate that georgapia earns exceed program population flexibles.
The possibility of was a increased or low of labor to hapker paying jobs during the construction component is mighly littley outcome. The general service sector could undergo a perk is of difficulty due to low of labor to higher paying jobs and pressure for increased wages and with preticular report to tourism, this could also impair competition with inexpentive Arian tourists destinations. CVol. 9 AAS page 4-37; Vol. 7 page 3-59)	end of every training mission so that they might spend money in local establishments and interact with local residents.	Sective will support Gov/ham requests to allow other industries besiden construction to mapply 91-2 alien juberers to accommodate the period of difficulty. •1GPO will exclude the period of difficulty. •1GPO level excellent program in collaboration with Gov/Guan to dermitte when the period of difficulty onto so that the allowance for other industries to hire H-2 can be ended.
Local workers would take up only 25% of new federal civil service jobs. (Vol. 9 Appendix F page 4-147 table 4.3-3 and page 4-6)		SecNav working with the Congress as necessary shall afford those affected by certific BRAC and A-76 terminations, early tofferometrs and princitly placements with re-employment rights for civil service jobs resulting from the proposed actions.

Guarn Economic Development Authority

Guam and CNMI Military Relocation DEIS/OEIS

continue to see the cost of goods and services rise faster than their incomes. While the proposed action may not represent a reversal of this trend, it will slow the rate of decline in the standard of living that has been prevalent since 2000."

Construction contracts have not been established for the proposed action so it is impossible to tell what percentage of contracts would go to Guam companies. However, the SIAS notes that about 17.5% of total construction money will be spent on Guam.

Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-019-021

Thank you for your comment. Public comments on the DEIS are an important part of the decision-making process. This information becomes part of the FEIS and is evaluated when DoD prepares the FEIS and issues a Record of Decision at the end of the NEPA process.

Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

1-04-9-4-0-7- Commence of the		
Local government would have to increase its level of	DoD use implement incentive programs for military spouses and dependents	DoD shall actively support GovGuan's request for
persons in court agencies (Vol. 9 Amendix K and Vol. 2	that wenty for and use hired into GoyGuam public services agency employment.	technical assistance under the Inter-Agency Personnel Act
Chapter 16)	• DoD one implement volunteer programs for mixinary, best spouses and dependents, linking them to long-stem government of Cautary public service laguacy volunteer positions. • DoD on implement collaborative effects with the federal government and GovGount to desentify and provide grant writing usistance to Gazan public service organizations and agrecies that have existing AmeriCorps program, or have the potential to host standiscopering to Gazan AmeriCorps program, to Gaziliar an increase in AmeriCorps service on Guann. • Assist GovGount in section federal full uniting for necessary premunent cumber perferensional staff.	that allows federal employees to work for GovGuam with their solaries paid for by the federal government.
licerences in military operations may increase conflict between military, (or firm) and tourist operations.	Mentified, as well as the number of administrative and supporting staff needed for those professions to perform their positions adequately. "Assist CorGuzza in tection; before the third profession of the number of private staffing and pervice contractors currently weeking for service agencies, to match staffing and professions of the profession of the staffing and pervice contractors currently weeking for service agencies, to match staffing and professions of the staffing and the staffing the	JPGO in conjunction with CovGnum shall establish an larkney? Task Force flushed by DoD that is responsible for latering Newy and GovGnum decisionenshean regarding conflicts and recommending appropriate courses of action.

Guam Economic Development Authority

Guam and CNMI Military Relocation DEIS/OEIS

J-019-022

Thank you for your comment. Your proposed mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

GEDA Comments on DEIS Guam and CNMI Military Relocation January 2010

	unit (
J-	019- 1	023 9	F	vi	1st para.	[Proposed action may not represent a reversal of the trend that cost of goods and services will rise faster than incomes, but it would be expected to slow rate of decline in standard of living. DEIS must provide data supporting this impact so that basis for slowing rate of decline can be evaluated.	GEDA
	2	9	F	2-2	1st para.	One factor not apparently considered in the determination of how many new jobs would be filled by Guam residents is the number of graduating high school students. Guam graduates approx. 2000 students per year and military buildup should be viewed as a source of employment for these graduates.	GEDA
	3	9	F	2-4	2.1-1	What is source of information for his table? 1997-1999 shows higher figures of immigration as compared to highlighted years. What is the cause of this and how does this affect analysis? The percentages reflect Guam's Philippines born population but the ages of them upon arrival to Guam are not stated.	GEDA
	4	9	F	2-5	2.2	Need to explain why some economic topics such as potential effects on cost of living, unemployment, local business opportunities are "less conducive to quantification". It appears that these topics can be quantified but the DEIS did not do so.	GEDA
	5	9	F	2-9	2.2.4.5	Concensus appears to be that banks on Guam were not adversely affected by financial crisis. If this is true, it contradicts statement made in DEIS and that potential for capturing indirect economic benefits is better.	GEDA
3-	01,9	024	F	3-47	Fig 3.2.1	This map depicts GovGuam land ownership in the Andersen AFB area which we believe is incorrect. This map is used in other sections as well.	GEDA
J-	7 7	025 9	F	3-47	3.3.3.2	Section on Human Resources must be revised to show that Guam ranks 126 out of how many cities? If DEIS is to continue to state that Guam lacks governance experience as compared to mainland local and state governments, it must provide data to show this, rather than simply implying that Guam has only 50 years of experience. Additionally, the DEIS must show how lack of experience affects Guam's alleged inability to handle federal funds, federal receivership and high level administrative fraud.	GEDA
	8	9	F	3-3	Middle	Statements need to be revised to reflect more recent experience that Guam was able to float over \$500M in bonds with a demand of 11 times that being offered. Guam's triple tax exempt status for investors increases attractiveness of Guam bonds regardless of the B+ rating. Additionally, DEIS admits that it has not determined cost of satisfying demands generated by proposed action on roads, ports, and other infrastructure. Quantification of costs must be conducted to allow cost benefit analysis of the proposed action.	GEDA
]-(9	026 9	F	3-24	3.5.1.4	Regarding war reparations, it is our understanding that the US government absolved the Japanese from resolving Guam's war claims and in its place, committed itself to resolving wer claims on behalf of the Japanese. The Guam War Claims Act passed by Congress in 1945 is testament to this commitment and recent action by the House of Representatives and the Senate (even though the new war claims act was not enacted in this Congress) reaffirms this commitment.	GEDA

Guam Economic Development Authority

1

J-019-023

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process. Comments received from the public allow DoD to make changes to the EIS before the document is finalized. This information becomes part of the Final EIS and is evaluated when DoD issues a Record of Decision at the end of the NEPA process.

The source of Figure 2.1-1 is Public Use Microdata Sample (PUMS) data from the U.S. Census. A reference has been added, below the figure, to the FEIS. The highlighted area of the figure represents a period of time when there was a high level of construction activity on Guam. The data is presented as-gathered and provides no distinct conclusion, which is a conclusion in and of itself.

Certain topics such as cost of living and unemployment rates are difficult to quantify because they depend on a multitude of factors; projections may have been made for these topics however, the projections would have a low level of accuracy.

The SIAS, under NEPA specifications, presents two measures (Unconstrained scenario and constrained scenario) that aspire to present a maximal impact scenario; if beneficial economic impacts are realized at a higher level than stated in the SIAS, then that would be appropriate.

J-019-024

Thank you for your comment. The figure is edited in the Final EIS.

J-019-025

Thank you for your comment. Language in the Final EIS has been changed according to your recommendation.

GEDA Comments on DEIS Guam and CNMI Military Relocation January 2010

				es de la companya de		
- 019 -	9	F	4-34	4.3.6	The DEIS is deficient in its coverage of local business contract opportunities and constraints. The only aspect dealt with in the DEIS is Alaskan contractors and their race-based ability to obtain contracts. GEDA's scoping comments presented many other opportunities and constraints that it requested should be addressed in the DEIS which was not done. As the Navy has publicly released its NavFac Execution and Acquistion Plan which deals with contracting and since the plan provides details regarding contracting opportunities associated with the proposed action, the DEIS should evaluate the impacts on local business contract opportunities in line with the provisions of this plan. Additionally, as this plan includes DPRI as well as non-DPRI funding and other proposals such as the establishment of Joint Base Guam/Joint Region Marianas, the effects of the plan must be addressed in the Cumulative Impact section of the DEIS.	GEDA
11	2		16-63	Table 16.2 30	The application of the Hawall Input-Output model to Guam is inappropriate and does not yield realistic estimates of economic impact resulting from the proposed action. The absence of readily available data for Guam is an insufficient reason to utilize the Hawaii model. As a recommendation the DOD and or other federal agencies must fund the development of a Guam Model in order accurately assess the full economic impacts resulting from the proposed actions.	GEDA
12	2		16-95		The DEIS does not contain any cost information including recurring and nonrecurring costs associated with the proposed actions. While the DEIS acknowledges that a Financial Impact Assessment will be done by GovGuam, costs associated with the proposed action must be included in the EIS in order for reviewers to make informed decisions.	GEDA
13	2		16-95		There is inadequate analysis of the benefits to accrue to Guarn businesses. The proponent of the action has not "set-astide" contractual funding for local or even small businesses. The "expectation" that Guarn businesses will benefit from various opportunities associated with the proposed action must be identified and quantified through proper study.	GEDA
14	2		16-97		Standard of living and local business opportunities have not been quantified in a fashion that allows the DEIS to classify these as beneficial impacts.	GEDA
15	2		16-99	Table 16.2 53	The proponent has indicated that the award of construction contracts to large off-leland contractors is necessitated by the condensed time frame for construction in preparation for the proposed action. Relaxing the construction timeline to smooth out the adverse impacts of a large jump in population is an appropriate mitigation measure which will allow more of the work to be contracted to local business. An alternative apparently espoused by the proponent of splitting the construction work (allowing some of the work such as prefabrication to be performed outside of Guam) but not relaxing the time frame for construction will reduce economic benefits and is not as acceptable as relaxing the construction time frame.	GEDA

Guam Economic Development Authority

2

J-019-026

Thank you for your comment. Topics such as war reparations are important issues but are not part of the proposed action. Comments related to these issues were numerous and indicate underlying social and political dissatisfaction with a broader range of federal-territorial relations outside the scope of DoD legal authority. The various EIS public engagement forums provided an indirect avenue for informing local and federal policy-makers of issues that are important to a significant segment of the community.

J-019-027

Thank you for your comment. The EIS and the Socioeconomic Impact Assessment Study (SIAS, Appendix F of the EIS) have identified the probable impacts of the proposed action and alternatives based on the best available information. Existing data and information was gathered and supplemented with interviews with federal and Guam agencies. To provide the public and various governmental agencies with an opportunity to review and comment on the methodologies and assumptions used, the SIAS was included as Appendix F, Volume 9 of the DEIS. Comments provided on the DEIS will also be included to provide the decision-makers with the public views in support and/or opposition of the proposed action and alternatives.

As documented in the EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

100							
3-)19- 16	027	7	ES-35		DEIS indicates that a "suite of mitigation measures are under consideration to mitigate impacts to socioeconomics". A clear description of these mitigation measures and how they are expected to mitigate socioeconomic impacts must be provided.	GEDA
	17	9	Appen F	4-28	Table 4.3- 35	Gross value of military contracts by year must be updated to show more accurate impact on quality of human environment. The US Congress has already approved over \$700M and the Japanese government has already budgeted over \$300M for 2010 while DEIS assumes only \$524M. Total cost of military contracts from 2010 to 2016 is almost \$12B as reported in DEIS. The Navy has also indicated that DPRI and non-DPRI funding would be awarded. This, coupled with the cumulative impact of the Air Force, John Region and other initiatives, could increase impacts. If expenditures are more like \$15B, an additional 22,500 workers would be needed using the formula contained in the DEIS. If this occurs, the impacts on the quality of the human environment become even more significant.	GEDA
	18	7		3-78		"The socioeconomic growth in the civilian sector will require additional education, medical care, police and fire facilities. These are elements that are likely to be addressed in the CSS" (probably means FIA). "CSS" is not defined in the DEIS however it probably means Compatibility Sustainability Study or maybe Fiscal Impact Assessment which GovGuam's consultant is performing under OEA funding. The FEIS must include the results of these studies as they would identify mitigation measures that DoD would consider in making informed decisions.	GEDA
ľ	19	7		2-30		If Navy is committed to working with GovGuam and other federal agencies to secure funding for off-base impacts, include this commitment within the ROD.	GEDA
	20	9	Appen F	4-29	Table 4.3- 37	This table projects base operations expenditures from 2015-2020 at \$52.4M based upon USAspending.gov. for expenditures on Guam. A US Dob IG report dated March 12, 2007 (Report No. D-2007-069) provides a significantly greater annual base operations cost (even after deducting construction and personnel costs) and should be used as a basis for estimating annual costs. Alternatively, the IG report indicates that annual costs should be identified in the FY2009 Program Objective Memorandum. We submit that Guam historical costs should not be used as better information is available. Higher future operational costs would demonstrate an even greater positive benefit of the proposed actions which assists in arriving at a more informative cost benefit analysis. In addition, Do0's FY11 Budget Request which would form the basis of the FY11 National Defense Authorization Act or Do0's Future Years Defense Plan which is required by Congress, should be used in the FEIS, as the costs included in the Budget Request or the FYDP would be a more accurate depiction of actual costs.	GEDA
3-	129-	028		16-36		The narrative under Chamorro Land Trust Commission actually describes the Guam Ancestral Lands Commission. Also, the narrative under GALC actually describes the CLTC.	GEDA

Guam Economic Development Authority

2

Guam and CNMI Military Relocation DEIS/OEIS

J-019-028

Thank you for your comment. Edits have been made as appropriate in the FEIS.

GEDA Comments on DEIS Guam and CNMI Military Relocation
January 2010

					and the second throat coletting	
J -	22	029	16-	42	Under "Impacts", DEIS indicates a steady 31K population "as increases in base operational expenditures cease by 2019". Operational expenditures will not cease and it will be necessary to monitor actual population levels. As previously indicated by the Bureau of Statistics and Plans, a mid-Decennial Census should be supported by the military to ascertain changes in population and the extent to which DEIS projections have been achieved.	GEDA
	23	2	16-	Table 16.2	The DEIS uses the Census as the basis for its assumptions on the demographic characteristics of the Marines that will be relocating to Guam. As the Japan-US agreement identifies the Marine units relocating to Guam, it would be more accurate to use the characteristics of these units, even if the actual unit service member does not relocate to Guam.	GEDA
]-(24	2	8-:	20	The discussion regarding the non-DoD lands north and west of AAFB is not an accurate description of the history and issues behind the provision of access to the Cestro and Artero properties. Access is part of the agreement, but access was court mandated ever since surrounding properties were acquired. The North and Central Guam Land Use Plan may propose that the area be designated Tourism/Resort however, pre-existing zoning already designates the Urunao area as Hotel/Resort Zone. The proposed action will restrict access even more. Implementing the proposed action will result in the taking of development rights. Unrestricted access should be considered as an appropriate mitigation action and included in the ROD.	GEDA
J-(25	031			The entire volume 2 evaluates the proposed action against the proposed North Central Land Use Plan which has not been adopted. All impacts of the proposed action should be evaluated against Guam's zoning law.	GEDA
]-(26	032	2-1	18 Table 2.5-	Votume 4 specifies that the preferred alternative for Aircraft Carrier Berthing is Polaris Point. This volume discusses impacts and mitigation measures and refers to Volume 6 for off-base improvements. Volume 6 does not identify access roadway improvements along Polaris Point Road, leading from Route 1 to the preferred site. This road is owned by GovGuam and will be heavily utilized during the construction period. During the operational period, additional traffic will be experienced as visiting servicemen will utilize this road and supplies and other cargo may be delivered to the carrier over this roadway. Roadway improvements must be made to mitigate impacts of this proposed action and preferred alternative.	GEDA
J-(27	7	2-	30	The DEIS recognizes that traditional funding sources (taxes, fees, etc.) will not be able to be used to fund improvements required by the proposed actions. The "identification" of potential funding sources to assist Guam in implementing mitigation measures on non-DoD land is insufficient. The Navy must not only identify but also actively support that other federal funding is provided in such fora as the other agencies themselves, OMB, the interagency Working Group, and committees of Congress.	GEDA

Guam Economic Development Authority

J-019-029

Thank you for your comment. It is not expected that by 2019 base operational expenditures will cease; rather they would cease to increase. As there would be no increases in expenditures associated with the proposed action, there would be no additional population associated to the proposed action. The FEIS has been amended to reflect your comment.

Please see Section 4.2.2 of the Socioeconomic Impact Assessment Study (Appendix F ofthe DEIS) for information on Demograhics as related to the proposed action. Guam data was not used to develop demographic impacts related to the military; data from Hawaii, where there are far more Marines and more diversity between military branches than in Guam, was used. Clarifying language has been added to the FEIS.

J-019-030

Thank you for your comment. None of the proposed actions on Andersen AFB would impact access to coastal private lands or the U.S. Wildlife facility. There will be unrestricted access along Route 3a. The access restrictions for private lands north of Andersen AFB will remain. Historical access restrictions are not included in the EIS.

J-019-031

Thank you for your comment. A zoning map is being developed by GovGuam agencies, but is not updated with every zone change and was not available for inclusion in the Final EIS. The official island zoning map is presented in the Draft EIS and was relied upon for geographic areas for which there was no community master plan. The North and Central Land Use Plan is not adopted by legislature and this is acknowledged in the EIS Volume 2, Section 8.1.1.2. It was an important resource when assessing the land use impacts because 1) there was an extensive public involvement component that captured the community land use

GEDA Comments on DEIS Guam and CNMI Military Relocation
January 2010

No.	ilo.		11.0			
3-0	28	7	2-32		Adaptive management and post-ROD monitoring must be implemented for the socio-economic resource area. As the benefits of the proposed actions appear to be less than their costs, the Navy in conjunction with GEDA and local and federal entities must establish a post-ROD monitoring plan which should determine the level of benefits being experienced by Guam and should the level of benefits be tower than agreed upon, the Navy would take appropriate action. For instance, if the award of construction dollars to small businesses is not achieving the national target of 23%, the Navy would allocate more contract dollars to small businesses or require that large companies allocate more of their award dollars to small business subcontractors.	GEDA
3-	129-	03,5	2-34	Fig 2.3-1	Data sharing, public Involvement and notification and collaboration with Government of Guam must be included in the Monitoring Plan flow chart.	GEDA
J-(30	7	2-57		"Socio-economics is not a good candidate as a driver for adaptive management mitigation techniques" taken as a whole. However, if 'socio-economics' is broken down into specific areas as delineated in Vol. 7, page 3-86, adaptive management techniques could be developed for labor force income, cost of living, housing, local government revenue, local business opportunities, tourism, gross Island product and public services. These areas should be monitored and once the cost begins to exceed the level projected without the proposed actions, corrective action could be taken by the Navy in conjunction with GovGuam. The appropriate metrics, targets and mitigating actions need to be formulated in the FEIS.	GEDA
	31	7	3-54	Table 3.3- 36	"Economic" as a "Potential Impact Component" is too general a term and should be replaced with the more specific categories used in Vol. 7, page 3-66. The impacts and their significance are substantially different using a more detailed breakdown.	GEDA
	32	7	3-59		The DEIS recognizes that there will be a loss of labor to higher-paying military jobs brought on by the proposed actions however it does not identify how this impact would be mitigated. At the same time, a less qualified workforce would necessarily be employed in jobs whose pay cannot compete with military civilian pay. The Navy should commit to identifying and helping obtain funding for workforce training and ensure that companies hired for military contracts employ and train entry level personnet.	GEDA
]-(33	7	2-21	Table 2.2-	The DEIS indicates that the mitigation measures identified in this table are examples. All of the mitigation measures identified in this table should be incorporated into the ROD, should be funded and implemented by the Navy. However, under "Land", buffers should be created on federal property rather than on government of Guam or private lands.	GEDA
3-6	34	038	2-28	Table 2.2-	Under Socioeconomics and General Services within DoD Control, it is unclear what specific impact is intended to be mitigated by the examples presented. A more useful approach would be to list the socioeconomic impact, identify the mitigation measure, identify the specific entity responsible for implementation, establish timelines for accomplishment and ensure funding availability.	GEDA

Guam Economic Development Authority

5

planning objectives, 2) it is current, and 3) it represented best available information. Volume 2, Chapter 8 describes the planned land uses presented in the North and Central Land Use Plan and assesses whether the proposed action is consistent or compatible with the Plan.

J-019-032

Thank you for your comment. Long term traffic impacts along Polaris Point Road are expected to be minimal and busiest only occasionally when aircraft carriers are visiting Guam. The FEIS evaluated the traffic impacts that would be expected on an everyday basis, Polaris Point Road and it's intersection with Route 1 currently operate a levels much below capacity and no traffic impacts are expected.

J-019-033

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other federal programs and funding sources that could benefit the people of Guam.

J-019-034

Thank you for your comment. Your mitigation recommendation has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-019-035

Thank you for your comment. The flow chart is notional and focuses on

	9 -0	9	Арр F	24-Apr	The DEIS assumes GovGuarn collects all tax revenues that it would be owed. With specific regard to gross receipts taxes from construction and operational contracts, the GovGuam does not receive information from the military on contracts that have been let. As GRT and other taxes must be paid by companies upon receipt of payments (rather than contract award), a system must be established by the Navy in conjunction with GovGuam that provides appropriate GovGuam agencies with the information they require to ensure that all local requirements are met.	GEDA
3	6	7	3-59		Housing appears to be an area where post-ROD monitoring would be useful in ensuring that the preferred actions do not result in adverse impact. It is suggested that the Navy in collaboration with GovGuam establish a monit	GEDA
3	17	4	16-9		The discussion on local business contracts indicates that there will be more construction and operation contracts for the Marine Relocation than for Aircraft Carrier Berthing. Comparing Aircraft Carrier Berthing to Marine Relocation is an Inappropriate comparison that does not provide decisionmakers with a firm basis to make decisions. The number, dollar amount and nature of construction and operation contracts should be presented and compared with and without the proposed action and not compared with a different proposed action. As in other volumes, there is a complete lack of discussion regarding construction and operation contracts. Contracts are direct benefits of the proposed action and must be discussed thoroughly to provide decisionmakers with appropriate information to make informed decisions on the effect of the proposed action on the human environment.	GEDA
3	18	4	16-10		The DEIS states "Long term operational effects on tourism would include force protection restrictions during carrier ingress and egress restricting diving and tourist operation. However, these economic impacts to tourism would be somewhat mitigated or compensated for by increased tourism from military personnel." The extent to which adverse economic impacts would be mitigated/compensated by increased military tourism is not identified but should be quantified to determine the accuracy of the DEIS statement. Also, it is questionable whether the Navy can mitigate "restrictions during carrier ingress and egress" with "increased tourism from military personnel."	GEDA
3	9	4	16-10		The DEIS states "tourism organizations and hoteliers were surveyed to collect data on this proposed action." It goes on to state that surveys resulted in the conclusion that carrier visits "always contributed positively." However, no data is presented from the surveys to support this conclusion.	GEDA

Guam Economic Development Authority

the general steps in the process. It is not intended to identify roles and responsibilities. The GovGuam agencies would have a role in the plan.

J-019-036

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process. Comments received from the public allow DoD to make changes to the EIS before the document is finalized. This information becomes part of the Final EIS and is evaluated when DoD issues a Record of Decision at the end of the NEPA process.

J-019-037

Thank you for your comment.

J-019-038

Thank you for your comment. Expanded mitigation discussion is available in the FEIS.

J-019-039

Thank you for your comments.

With regard to collection of GRT taxes, your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

With regard to monitoring housing post-ROD, your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

With regard to contracts, the intent of the economic impact analysis in the DEIS is to project the expected benefits, to the Guam economy, that are associated with proposed action. Projected economic benefits to the

			Cij c			A control of the cont	
J -0	4 0	4		16-10		Industry representatives indicate that active duty personnel on temporary orders are exempt from hotel occupancy tax when their stay at the hotel is strictly related to their military duties. The DEIS indicates that such stays are infrequent and only occur if there is insufficient transient billeting on military installations, but when they occur, military personnel may displace tourists that pay the tax. The frequency and extent of impact must be documented. Our observation is that this occurrence may be frequent, especially given the Air Force deployment every six months of bomber, fighter and support personnel. With establishment of Joint Region Marianas, all such billeting would be controlled by the Navy and it appears that insufficient on-base billeting would be the norm rather than the exception.	GEDA
	41	5		16-10		The section regarding "Local Business Contracts" again compares the proposed action against a different proposed action as opposed to providing the data. Data regarding contracts during the construction and operations periods for the Army AMDTF must be provided to allow for informed decisionmaking on the effects of the proposed action on the human environment.	GEDA
	42	9	Appen F	4-13		The SAIS indicates "Current plans are for on-base housing to be provided for all military personnel and thus this population is not included in the housing analysis." The effect of the Navy's housing plan should be evaluated within the EIS. While the cost of new Navy housing would not pose a significant impact on the Navy accause the Japanese Government is funding this requirement, the Navy's decision to house all its personnel on-base results in the need for more land and results in further leakage of benefits as investments are funnelled off-island. The provision of off-base housing will mitigate many of the economic impacts identified in the DEIS.	GEDA
	43	9	Appen F	4-29	Tab 4.3- 37	The average annual wage of military personnel is almost \$29K. 11,182 active duty personnel will reside in Guam during the steady state meaning that a military payroll of over \$323M would be distributed annually in Guam. As only 12% of military payroll is spent in the local economy, militarily measures that encourage military personnel to spend off-base would reduce adverse economic impacts.	GEDA
	44	4		16-17		"Cost of living increases, particularly during the construction phase, would negatively affect households on fixed incomes, though other households would benefit from rising wages. The DEIS must quantify and project the number of fixed income households during the construction and operational phases to determine if the impact on this human population outweights impacts on the rest of the population.	GEDA

Guam Economic Development Authority

Guam economy from the Navy action are presented Volume 4 Chapter 16. Contract values do dot represent a direct economic impact to the Guam economy as much of the value of contracts is spent off-Guam and does not contribute to Guam's economy. In the SIAS analysis, adjustments to total contract values are made to reflect what would be spent on Guam and contribute to the economy. The expected magnitude of economic benefit, in dollar terms, is best represented through the GIP measure which is provided for each action individually and for all actions combined (the combined measure can be found in the SIAS).

Specific information on individual contracts is unknown as the proposed action has not yet achieved a ROD.

A quantified measure of impacts on Tourism is not presented in the EIS. Information on expected impacts on Tourism was gathered during interviews with industry experts. Please see Appendix D of the SIAS for notes from the interviews.

J-019-040

Thank you for your comment.

Industry experts noted that hotel occupancy, on Guam, runs well below 100% and that non-military tourists are rarely, if ever, displaced by members of the military. Industry experts claim that members of the military are "always welcome" as they tend to spend more than other guests. Please see Appendix D of the SIAS for notes from interviews with industry experts.

With regard to contracts, the intent of the economic impact analysis in

h					TOP W	A CONTRACT THE STATE OF THE STA	
4		41		16-39		This section discusses how the DEIS determines "significance" of economic impacts on the economy of Guam and the <u>prosperity of its people</u> . The DEIS assumes that the economy of Guam and the prosperity of its people are one in the same. It succeeds in analyzing the economy but fails to analyze prosperity of its people. Many of the economic benefits identified in the DEIS exceed the 2% threshold but may not add to prosperty of Guam's people as most jobs will not be for Guam's people and most large contracts will not be for Guam's contractors. OEA's Technical Bulletin 5 places emphasis on "community-specific needs and resources" and not on general economic conditions.	GEDA
4	6	2		16-99	Tab 16.2- 53	Although the economic downturns after the construction boom peak is "not considered sufficient to change the overall impact assessment from beneficial to adverse, miligation measures for the economic downturn must be included as possibility of an economic downturn is a severe adverse impact on the human environment as a result of the proposed action.	GEDA
4	7	2		2-21	Table 2.2- 1	As stated in the DEIS the DOD does not have the statutory authority to undertake mitigation measures on non-DOD land. However, resources on non-DOD land will experience social and economic impacts resulting from the DOD's proposed action regardless of statutory authority. A recommendation would be that non-DOD controlled mitigation measures as seen in Table 2.2-f, if determined to be the best if option, should require shared effort by the DOD, GovGuam and federal agencies. Further, this effort should be included in the ROD and be memorialized in a Memorandum of Understanding (MOU) requiring such efforts by the DOD, federal and GovGuam agencies regarding non-DOD control tands that are impacted by DOD's proposed actions.	GEDA
4	8	9	744	2-3		As stated in the DEIS out-migration of in-migrant workers and their dependents is an issue. The unconstrained scenario assumes prompt out-migration of temporary population as military construction concludes. Indeed, this is a serious issue that should be addressed further by the DEIS. By assuming prompt out-migration, the study ignores the serious potential costs of a larger in-migrant population in Guarn that will have serious adverse impacts on public resources during the buildup process and beyond. Recommendation would be to support the constrained scenario as a preferred alternative. The constrained scenario would have a far less impact on publiciprivate resources (e.g. housing, utilities), lower costs for the DOI, raise workforce participation, increase the standard of living, and mitigate many of the social and cultural impacts associated with the proposed action.	GEDA
4		9		1-7		As stated in the DEIS the constrained scenario is the best-case scenario. Recommendation would be for the FEIS to support elements of the constrained scenario alternative that assumes absorption of currently unemployed Guarn residents by the job market, less in-migrants, and fewer non-working dependents per in-migrant.	GEDA

Guam Economic Development Authority

the DEIS is to project the expected benefits, to the Guam economy, that are associated with proposed action. Projected economic benefits to the Guam economy from the Army action are presented Volume 5 Chapter 16. Contract values do dot represent a direct economic impact to the Guam economy as much of the value of contracts is spent off-Guam and does not contribute to Guam's economy. In the SIAS analysis, adjustments to total contract values are made to reflect what would be spent on Guam and contribute to the economy. The expected magnitude of economic benefit, in dollar terms, is best represented through the GIP measure which is provided for each action individually and for all actions combined (the combined measure can be found in the SIAS).

Specific information on individual contracts is unknown as the proposed action has not yet achieved a ROD.

With regard to your recommendation on military spending off-base, your recommended mitigation measures has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

With regard to housing the military off-base, your recommended mitigation measures has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

The Standard of Living Section in the SIAS does not assess the capacity for every individual on Guam to maintain wage increases above the rate of inflation. The Section, instead, provides a general overview of the situation from a Guam-wide perspective.

J-019-041

Thank you for your comment. While not all jobs and all contracts will go to Guam people and contractors, economic analysis shows that the proposed action will benefit the, overall, prosperity of Guam. With the propose action, there would be more jobs, more income and an overall

019 - 50	2	AND THE RESERVE THE PROPERTY OF THE PROPERTY O	16-8		As stated in the DEIS military households receive a basic allowance for housing which provides them with more disposable income. This statement is problematic. Military personnel and their dependents receive "over-seas housing allowance" (OSHA hereafter) on Guam not "basic housing allowance" similar to that of the continental United States. OSHA does not allow for military personnel to benefit from negotiating rents. Any discounts received from negotiating rents is returned to the DOD. This "use it or lose it" policy has created subsidized inflation on the nesidential roal estate markets. Non-military residential renters/momebuyers are unable to compete with such a large DOD subsidy the consequences of which are already causing economic impacts pre-buildup. Recommendation would be for the FEIS to acknowledge the OSHA policy as having an economic impact and for the DOD as a mitigating measure reversaluate the OSHA policy.	GEDA
51	9		2-2		As stated in the DEIS the capacity of Guam residents to take jobs was determined by 3 questions: How much the unemployment rate would decline, how many "discourage workers" would be pulled back into the labor market, and labor force participation rates of military spouses. The analysis omits an important population that is the post- graduate student population - the graduating students of the University of Guam, Guam Community Cotlege, and lall public and DODEA high schools. The student population is not included in the unemployment rate and is not considered discouraged workers; to ignore this population would create lower estimates of Guam resident's employment capacity. It also ignores the under employed population - those taking part-time employment that will be able to take full-time employment given the opportunity. Recommendation would be to include this educated and skilled population as well as a proxy group representing the under employed in the analysis. Then recalculate the capacity of Guam residents ability to take jobs for use in the FEIS and ROD.	GEDA
52	2		16-20	Table 16.1 21	The DEIS illustrates a chart of Guam Educational Attainment since 2000. The University of Guam, Guam Community College, public and DODEA high schools have more current data. There have been 4 schools built since 2000 and additional specialized schools added to the colleges. The FEIS should reflect more current attainment levels if it is to accurately evaluate the ability of Guam residents to assume jobs. Recommend that the DEIS use more current educational attainment figures and incorporate these figures into the Guam residential job capacity. Then reevaluate the figures for the FEIS and ROD	GEDA
53	9	Арр F	ii		The statement that this scenario assumes "some mix of limitations" is insufficient to demonstrate the viability of the numbers associated with the scenario. DEIS should identify the blockages assumed in the scenario, or at least discuss how the scenario assumptions were derived (i.e. percentages of the Uniconstrained Scenario or otherwise).	GEDA
54	9		v	Table ES-	The summary does not include Section 30 revenues, which are expected to be directly impacted by the buildup	GEDA

Guam Economic Development Authority

better standard of living than there would be without the proposed action. The results of analysis, showing relative improvement in these beneficial factors constitutes improvement to prosperity.

With regard to the projected economic downturn, Your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

With regard to implementing mitigations, Your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

The unconstrained and constrained scenarios in the SIAS do not represent alternates to the proposed action. They are two varying projections of economic impacts which together make up a range of possible impacts from the proposed action.

Page 1-7 of the SIAS states that the constrained scenario is a minimumimpact approach. A minimum impact is not necessarily the best-case scenario as beneficial impacts would be lower than in the unconstrained scenario.

J-019-042

Thank you for your comments.

The DEIS anticipates that military housing would be built within the main cantonment area. It is anticipated that the majority of Marine families would rent units in the military housing and generally would not compete with Guam residents for available housing units. After the construction period, housing and rental prices could decline because the construction labor force (not including the H2B who will live in dormitory type quarters) would leave Guam. Civilian military workers may vie for Guam housing; however, residential housing needed for these long-term

-						-94g
)-(55	9	2	Sec. 2.1.1.1	When factoring in any declines in unemployment rates, the DEIS should consider the relationship between unemployment rates in Guam and actual employment. The unemployment rate is not necessarily an accurate indication of the unemployment/employment situation in Guam. For example, in September 2009, the unemployment rate increased by 1% to 9.3%, reflecting an increased number of unemployed persons. However, for that same time period, the number of employed persons increased by 4% according to the report. The unemployment figure also includes teenagers who are 16 years old through 24 years old, making up 40% of the September 2009 unamployed population. The DEIS should consider how many young persons between the ages of 18-24, who were not previously in the work force, could fill the new jobs.	GEDA
	56	9	2	Sec. 2.2.1	The DEIS reports that the State of Hawaii model was used because Guam does not have an economic model and therefore the State of Hawaii model was comparable given that it is an Island economy. This statement is insufficient to justify the use of the State of Hawaii model and the DEIS provides no rationale or substantiation that the State of Hawaii has a similar economy to Guam's. Outside of being an Island (or series of Islands) and having a vibrant tourism industry, the State of Hawaii is not at all similar to Guam in demographics and economy. Using the State of Hawaii model may artificially inflate the impact of the military buildup on Guam, as Hawaii possesses a much larger and more dynamic economy than Guam	GEDA
Ì	57	9	2	Sec. 2.2.3	riigher capture rate and multiplicr crect.	GEDA
	58	9	2	Sec. 2.3.3	The DEIS analysis is insufficient in that it does not consider a comprehensive quantification of infrastructure costs that will be required by GovGuam agencies. This, combined with the overestimation of the economic impact by using an economic model that clearly overstates the financial and economic projections, results in a very skowed analysis of the impacts of the proposed projects on Guam.	GEDA
	59	9	3	Table 3.3.1.1	Table 3.3-1 compares Guam's % of Government workers in the labor force to the U.S. Why is the DEIS comparing an entire country to Guam? Instead the DEIS should be comparing jurisdictions that are similar in size and demographics. When compared to the Commonwealth of Puerlo Rico, Guam's Government employment is quite manageable.	GEDA
	60	9	3	Table 3.3.10	Table 3.3-10 does not include Section 30 revenues, which comprises approximately 8-10% of GovGuam annual revenues. Not including this important revenue source is highly negligent on the part of the DEIS.	GEDA

Guam Economic Development Authority

workers would likely be about 3,200 units (maximal) by 2020 (SIAS, Table ES-3, page v).

Discussion of graduating students/unemployment has been added to the Final EIS.

Information on educational attainment are from the U.S. Census Bureau; 2000 census data is the most recent available for Guam. If there are currently higher levels of educational attainment than are noted in the SIAS than it might be expected that there would be more more jobs for local people than are stated in the SIAS; however, educational attainment was not considered as a factor in estimating local employment, so updated data would not change estimates. There may be more jobs for local people than the SIAS presents, this would be in holding with the NEPA precept of presenting a maximal impact scenario in an EIS document.

Additional information showing the differences between the unconstrained and constrained scenarios has been added to the FEIS.

The distribution of Section 30 funds are not part of the proposed action and are not discussed in the EIS.

J-019-043

Thank you for your comments.

Discussion of unemployment can be found in Section 4.3.1.5 of the SIAS. The discussion is general and does not attempt to estimate changes in the unemployment rate.

The economic impact analysis did not use Hawaii data in the development of direct economic impacts. Direct economic impacts were developed by adjusting primary, project related, data to reflect the

3 N 8 3					全是一种。但是一种	oden /
- 019 -	9	3		Sec. 3.3.3.2	The DEIS states that there are challenges related to human resources due to Guam's remoteness, size and lack of experience. It blames GovGuam's performance on human resources and lack of governance, while failing to describe circumstances under which Guam was subject for the last fifty years. Especially in the last 10 years, Guam has dealt with more than 3 super typhoons, an earthquake of extreme magnitude, the Asian economic crisis, mandated tax policies with no subsidized funding, and the global economic crisis to name a few. To make simple statement implying that GovGuam has mismanaged its Government without giving the full context is irresponsible on the part of the DEIS. In addition, it does not describe how it derived the conclusion that Guam does not have skilled technical or managerial workers based on its remote location and size.	GEDA
62	9	3		Sec. 3.3.3.2	As stated in the comment above to Volume 2: Chapter 16, the additional borrowing capacity of GovGuam does not exist. Any additional GovGuam borrowing anticipated by DOD would be added against the debt ceiling, with the exception of autonomous agencies such as Guam Power Authority, Guam Waterworks Authority, Guam International Airport Authority and Port Authority of Guam (to the extent that it does not rely on revenues of GovGuam).	GEDA
63	9	3	3-47	Table 3.3- 10	The table does not specifically identify total personal income taxes of active/retired military and active/retired federal civilian personnel domiciled in Guam also known as "Section 30" revenues. The DEIS needs to include Section 30 as a separate line Item in its evaluation and projections of "Revenue Sources for GovGuam". Section 30 as of 2008 was approximately 11% of total GovGuam revenues. The increased military population and the inability to accurately track and monitor this important source of GovGuam revenue constitutes an economic impact to Guam. An alternative mitigation measure would be to incorporate a formal joint effort by DOD and the Department of Revenue and Taxation (DRT) to ensure that the witholding taxes for all active duty military. Guam Guard and Reserves, active federal employees and retired military and federal employees, who are domiciled on Guam, are actively reported in a timely manner to facilitate the preparation of the annual Section 30 Warrant submitted to the U.S. Internal Revenue Service.	GEDA
64	9	3	3-47	Table 3.3-	Section 30 Revenues needs to be independently and accurately reported as a separate line item in this table. DOD needs to actively engage with all pay centers, the Defense Finance & Accounting Service (DFAS), the Office of Personnel Management (OPM), and the Office of Insular Affairs at the Department of Interior (DOI) to ensure that witholding tax reporting requirements are met for all activities based on Guam. This is critical with the impending military buildup and increased presence of civil service support personnel.	GEDA

Guam Economic Development Authority

economy of Guam, using Guam source data and generally conservative assumptions. A range was provided in the presentation of indirect and total impacts; the high end of the range (unconstrained scenario) did use Hawaii multipliers while the low end of the range (constrained scenario) used multipliers that were adjusted downward from Hawaii levels to reflect the possibility that the Guam economy would produce lower multiplier effects than Hawaii. Conservative adjustments at the direct impact level and the use of downwardly adjusted multipliers at the indirect level provided for the development of a range of impacts in which it is expected that the true economic impacts of the project, on Guam, would fall.

Another study, funded by DoD's Office of Economic Adjustment is underway, this is the Fiscal Impact Assessment that identifies the needs of the government of Guam and where the money to fund the needs could come from.

The estimate of income taxes in Table 3.3.10 includes federal income tax payments returned to GovGuam.

J-019-044

Thank you for your comment.

The language in Section 3.3.3.2 has been changed to address your concern.

Another study, funded by DoD's Office of Economic Adjustment is underway, this is the Fiscal Impact Assessment that identifies the needs of the government of Guam and where the money to fund the needs could come from.

					ratemay,	
J-	65 65	045 9	4-123	The analysis of agency personnel requirements in the DEIS does not but should include the Guarn Department of Agriculture. This agency carries out important regulatory and permitting functions including but not limited to those associated with aquatics and wildlife conservation and enforcement, clearing and grading, and invasive species control and gradienting.	GEDA	

Guam Economic Development Authority

12

Please see Section 4.3.3 of the Socioeconomic Impact Assessment Study (Appendix F of the EIS) for information on total income tax, related to the proposed action, that would be revenue to GovGuam.

J-019-045

Thank you for your comment. The data used in the analysis were derived from surveys and interviews performed in conjunction with the DEIS, and serve as a point-in-time indication of staffing levels. It is acknowledged that it is not possible for this analysis to capture all requirements of GovGuam agencies. It is expected that the Fiscal Impact Assessment, conducted by GovGuam consultants and funded by the Department of Defense Office of Economic Adjustment, will be able to more fully capture recent public service fluctuations, and provide a more detailed indication of fiscal impacts to GovGuam agencies. It is also noted that there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action.



Guam Economic Development and Commerce Authority

Aturidåd Inadilånton Ikunumihan yan Kumetsion Guahan



May 16, 2007

Joint Guam Program Office 258 Makalapa Drive, Suite 100 Pearl Harbor, Hawaii 96860-3134

Attention: EV2

Hafa Adai:

Federal Register Vol. 72 No. 44 dated March 7, 2007 indicates that written comments can be submitted, identifying specific issues or topics of environmental concern that should be addressed in the EIS/OEIS. The Economic Development Subcommittee of the Civilian Military Task Force has been reviewing various issues, opportunities and challenges associated with increasing military missions on Guam. It is comprised of members of the private and public sectors and is chaired by the Administrator of the Guam Economic Development and Commerce Authority. The subcommittee believes that the proposed action will stimulate the Guam economy by creating jobs, increased government revenue and increased economic activity. The subcommittee is concerned about the immediate benefits that will accrue to the Guam economy during the construction period and sustainability of these benefits over the long term. In addition, the Subcommittee is concerned about participation of local businesses in the growth that is expected to occur. The subcommittee provides the following comments and suggestions on topics that should be covered in the EIS/OEIS.

Expansion of the Guam Economy

While it is generally understood that the military expansion program will have positive benefits for the Guam economy, the extent of benefits and any potential impacts on jobs, revenue and additional economic activity have not been quantified.

1. The proposed action is expected to increase jobs, revenue and economic activity. The EIS/OBIS should forecast the financial impact of the proposed actions on the Guam economy. In particular, the EIS should project what the cost of living would be on Guam during the period of construction and operation associated with the proposed actions; the number and types of jobs to be created; and the revenues projected to be payable to the Government of Guam. It is expected that the proposed actions will create positive impacts which need to be quantified.

Guam USA - Your Business Smart Destination

ITC Building - Suite 511 - 590 South Marine Corps Drive - Tamuning, Guam 96913 - Tel. (671) 647-4332 - Pax (671) 649-4146 e-mail: help@investguam.com web site: www.investguam.com

However, increases may create adverse impacts as well, such as increases in the cost of housing and homelessness. The EIS must address mitigation measures for potential adverse impacts.

- 2. The military consistently indicates that military growth is good for the Guam economy since servicemen and women will spend money off-base. The EIS should project how much spending will occur off-base as well as on-base by the various industrial categories. This information will allow business to have market information required for business expansion and new business introduction.
- 3. The subcommittee is aware that the Navy has decided against locating a carrier strike force in Guam and opting instead to locate the CVN in San Diego. Although we understand that the costs for locating a CVN were determined to outweigh the benefits, we recommend that the EIS address the location of an Expeditionary Strike Group on Guam, given the presence of Marines and the need to transport them. An Expeditionary Strike Group consists of troop transports and support vessels such as The Bonhomme Richard Expeditionary Strike Group that visited Guam in April 2007.
- 4. The EIS/OEIS should describe whether the assignment of active duty military personnel to Guam will allow Guam to collect income tax as allowed under Section 30 of the Organic Act of Guam. Section 30 allows Guam to collect income tax revenue from active duty personnel stationed on Guam. Currently, as many personnel have been only temporarily assigned to Guam, Section 30 taxes are not paid into the Guam treasury, even though temporarily assigned active duty personnel utilize services on Guam. The EIS must identify mitigation measures to resolve this impact if the military plans to assign active duty personnel to Guam on a temporary basis.
- 5. Companies doing business with the military are required to comply with Guam "doing business" requirements e.g., business registration, payment of gross receipts taxes, and other requirements. Current military contracts contain a provision which identify these "doing business" requirements but the contracts also state: "Business registration with the Government of Guam is not considered in determining contractor responsiveness or responsibility." At the very least, the EIS should recommend that contractors must be registered with GovGuam upon contract award.

Opportunities for Local Businesses

Based upon a data base of military contract awards maintained by GEDCA, on the average from FY 2002-2007, local contractors obtained 45% of the funds awarded but won 71% of total contracts. Greater opportunity for local businesses to obtain a larger share of the contract amounts awarded is sought.

The proposed action will result in significant funding for construction projects.
 This amount of funding and the scope of projects have and will continue to attract

numerous off-island contractors. The EIS should evaluate impacts on local businesses and particularly on local small, disadvantaged and minority businesses.

- 7. The source of funds to implement the proposed action may not all come from DoD budgets. Non-appropriated funds are exempt from small business targets and if funding from the Japanese Government is considered non-appropriated, local small businesses will have difficulty obtaining a share of such funding. U. S. small business programs are not required to be followed by US contractors in Okinawa, nor can we expect Japanese companies who will use Japanese government funding to comply with small business programs. The EIS must evaluate methods to mitigate against these impacts on small business.
- 8. On the other hand, if funds to implement the proposed action are appropriated into the DoD budget, small business targets are nation-wide goals ie, if these goals have already been reached in other US locations, use of funding in Guam need not have small business goals. The EIS should evaluate the source of funds from the standpoint of local small business participation.
- Alaskan Native corporations seem to have some kind of advantage in bidding for military contracts. If this is true, the EIS might evaluate the Alaska Native Corporation model for application to Guam businesses that have remained here during good times and bad similar to ensure greater participation in military contract awards.
- 10. Local businesses may have franchises to supply certain goods and services to Guam consumers but the military or its contractors can ignore franchises and deal directly with off-island business with the same franchise because Guam is an "overseas" area. The EIS should evaluate the designation of Guam as an overseas area with respect to franchises and ensure that local franchises are respected in the award of contracts.
- 11. Local wholesalers are at a disadvantage in competing with off-island wholesalers since shipping of goods is subsidized by the military. The EIS should evaluate subsidies provided to off-island suppliers of goods and identify mitigation measures that provide greater advantages to local businesses or at least levels the playing field
- 12. General Bice consistently mentions public/private partnerships as the way to fund most improvements needed on or off bases. The public/private partnership model appears to involve private sector start-up funding with an agreement that requires a long term lease of the facility by the military. Assuming that most local businesses do not have or cannot obtain the level of financing required for large military projects, the EIS should discuss how local business/residents can benefit from public/private partnerships. In addition, the EIS must evaluate different models for public/private partnerships and the Government of Guam should be

involved in the planning for any public/private partnership to ensure that to the maximum extent practicable, local businesses are included in such arrangements.

- 13. The Japanese Government will funnel its financial commitment of over \$6 Billion through "Special Purpose Entities" which will allow the Japanese to directly benefit. This method of project financing will impact on local businesses and financial institutions. The EIS should discuss how SPEs can be made to provide opportunities for island businesses and residents.
- 14. The EIS should evaluate how military services that are not intrinsically governmental will be performed. If such services will be contracted to the private sector, similar to the Base Operating Support contract for Naval Base Guam, then scopes of work should be tailored to the capabilities of local companies. The EIS should also consider the application of a local business preference system similar to that afforded US companies that compete against foreign companies for U.S. work.
- 15. The EIS should provide estimates of the annual amount and nature of ship repair work so that impacts on this important industry can be evaluated. The EIS should baseline current ship repair capabilities and evaluate them against future needs for ship repair.

Other Economic Considerations

- 16. Most of Guam is considered rural for the purposes of U. S. Department of Agriculture Rural Development Programs. This allows very low to moderate income, first-time homeowners to take advantage of low interest rate programs for home purchases and construction. The 2000 US Census determined that the Village of Dededo is ineligible for USDA's housing programs. Increases in military personnel may result in Guam no longer being classified as rural and declared eligible for USDA programs. As a result of military growth, Tamuning, Yigo and other villages may become ineligible if village populations exceed the 20,000 population threshold for USDA's housing programs. The EIS should identify mitigation measures to off-set this impact.
- 17. USDA Rural Development's Business & Industry Guaranteed Loan Program provides a government guarantee to private credit to improve, develop, or finance business, industry, and employment and improve the economic and environmental climate in rural communities. This purpose is achieved by bolstering the existing private credit structure through the guarantee of quality loans which will provide lasting community benefits. The maximum loan that can be guaranteed by USDA is \$25 million. Currently, all of Guam is eligible for USDA's Business Programs since the population threshold is 50,000. However, village whose populations increase as a result of military growth may become ineligible for the Business Programs as well. Mitigation measures for this potential impact must be identified in the BIS.

- 18. The U. S. military owns a number of unused federal property particularly small, isolated parcels that are scattered throughout the island. Given their size and location, it is expected that these parcels of land will not be needed for military expansion purposes. The EIS should assess the need for land in Guam and should recommend release of those parcels not needed for expansion purposes to allow them to be developed so that they can contribute to the Guam economy and reduce federal costs of maintaining these properties.
- 19. The Guam Economic Development and Commerce Authority manages the former FAA housing area which is contiguous to NCTMS and the South Finegayan Housing area and the area across from the Andersen South Housing, now used for urban assault training. The BIS must evaluate impacts generated by military use of adjacent military properties on the potential for development and operation of these properties for non-military uses.

Thank you for the opportunity to provide comments.

Singerely,

ANTHONY C. BLAZ

Chairman, Economic Development Subcommittee and Administrator, Guam Economic Development and Commerce Authority



GOVERNMENT OF GUAM (GUBETNOMENTON GUAHAN) DEPARTMENT OF ADMINISTRATION (DIPATTAMENTON ATMENESTRASION) DIRECTOR'S OFFICE

(Ufisinan Direktot) Post Office Box 884 • Hagatna, Guam 96932 • Tel (671) 475-1101/1250 • Fax: (671) 477-6788



Lourdes M. Perez Director Joseph C. Manibusan Deputy Director

February 15, 2010

Joint Guam Program Office c/o NAVFAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134 Attention: GPMO

Re: Official Comments- Draft Environmental Impact Statement

Buenas Yan Hafa Adai !

J-020-001

The Department of Administration (DOA) is pleased to submit its official comments on the Draft Environmental Impact Statement (DEIS) relative to the proposed military buildup on Guam, USA. We look forward to continued dialogue and communication with your office on these very important issues facing the island, its People, resources and its future.

Si Yu'os Ma'ase,

J-020-001

Thank you for your comment.

DEIS REVIEW COMMENTS SHEET

Val	Chek		Line, Tbl. Fr	A STATE OF THE STA	Commenter (Entrança)	
	_	+		No direct impact for the Dept, of Admin, identified - DCA is a support agency for line agencies and impacts to the department may	Ken Borla	
	1			depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Exec. Summery	Exec. Summary			open at the control of the control o		Dept of Ad
ent summing	1	+-	1	No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borla	
	1	1		depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Exec. Summary	Reader's Guide		i .			Dept of Ad
			1	No direct impact for the Dept. of Admir. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
			1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		i .
One		1	1			Dept of Ad
			1	No direct impact for the Dept, of Admin, identified - DCA is a support agency for line agencies and impacts to the department may	Ken Borja	
	1	1	1	decend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
One	1	2				Dept of Ad
	+	1	1	No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
	i	1	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
One		3			Ī	Dept of Ad
		_		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and Impacts to the department may	Ken Borja	
	i		Į.	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
One		4	1		1	Dept of Ad
			1	No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
		1	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the kiring of FTE's and payroll.		1
Two		2	1		i	Dept of Ad
		+	-	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
		1	1	depend on how other agencies are affected by the FIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Two		2				Dept of Ad
		-		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Sorja	
		1	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and psyroli.		
Two		3				Dept of Ad
		1	1	No direct impact for the Dept, of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
			1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroli.		
Two		4	1			Dept of Ad
		_	1	No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	T
				depend on how other agencies are affected by the U.S. DOA currently has the capacity to process the hiring of FTP's and payroll.		
Two		5				Dept of Ad
				No direct impact for the Dept. of Admin. Identifies - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
l	i	4	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Two		5				Dept of Ac
		\neg		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
i	1	1	1	depend on how other agencies are affected by the EIS. DDA currently has the capacity to process the hiring of FTE's and payroli.		
Two	1	7	1			Dept of Ac
			1	No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
	i	1	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.	1	1
Two		8			1	Dept of Ac
		_		No direct impact for the Dept. of Admin, identified - DDA is a support agency for line agencies and impacts to the department may	Ken Borja	
			1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.	1	į.
Two		9				Dept of Ac
		1		No direct impact for the Dept. of Admin. identified - DDA is a support agency for line agencies and impacts to the department may	Ken Borja	
1			1	depend on how other agencies are affected by the US. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Two		10	10.0			Dept of Ac
			1	No direct impact for the Dept. of Admin. identified - DDA is a support agency for line agencies and Impacts to the department may	Ken Borja	
1				depend on how other agencies are affected by the ES. DOA currently has the capacity to process the histog of FTE's and payroll.		
Two		22			1	Dept of Ad

Page 1 of

REVIEW COMMENTS SHEET

Ver .	CIT	Po	Chie, Tel, Fig			A dile
		⊢		No direct impact for the Dept, of Admin, identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	_
			I	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		l
Two	12	1	1			Dept of A
		1-	1	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Xen Borja	
			1	depend on how other agencies are affected by the US. DOA currently has the capacity to process the kiring of FTE's and payroll.		
Two	13		1			Dept of Ad
		1	1	No direct impact for the Dept, of Admin. Identified - DCA is a support agency for line agencies and impacts to the department may	Ken Borja	1
		1	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the kiring of FTE's and payroll.		
Two	14	4				Dept of A
				No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
	1	1		depend on how other agencies are affected by the IIS. DGA currently has the capacity to process the hiring of FTE's and payroll.		1
Two	15	4				Dept of Ad
		1-		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
				depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Two	16	<u> </u>				Dept of A
				No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the depertment may	Ken Borja	
		1		depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the biring of FEE's and payroll.		
Two	17	1	1			Dept of A
				No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
		1	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Two	18	4_		I		Dept of A
		i		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
		1		depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTI's and payroil.		
Two	19	٠.	-			Dept of A
Three		⊢	-	Did not review Tinten EIS Chapter	Ken Sorja	Dept of A
			1		Ken Borja	
		1	1	depend on how other agencies are affected by the EIS. GOA currently has the capacity to process the hiring of FTE's and payroli.		Dept of A
Four		4-	-		Ver Beste	Dept of A
				No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Men edija	
		.i	1	depend on how other agencies are affected by the Els. DOA currently has the capacity to process the liking of FTE's and payroli.		Dept of A
Four		⊢	-	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Von Borin	Dejicor A
		1		depend on how other agencies are affected by the E.S. DOA currently has the capacity to process the hiring of FTE's and payroll.	Res Borja	
Four		.i	1	departs on now done, against the success by the tree por contains his the cabacity to broces are usually in the case		Dept of A
roar		1	_	No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	Dept divi
		1	1	depend on how other agencies are affected by the FIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Four	1		1	appear and 1999 to the appearance of the control of		Dept of A
rous		1	+	No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	Total Control
		1		depend on how other agencies are affected by the ElS. DGA currently has the capacity to process the hiring of FTU's and payroll.		1
Four			1		1	Dept of A
			1	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
	1	1	1	depend on how other asercies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Four		5	1		i	Dept of A
		1		No direct impact for the Dept. of Admin. Identified - DGA is a support agency for line agencies and Impacts to the department may	Ken Borja	1
		1	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		i
Four	1 :	7	1			Dept of A
		1	1	No direct impact for the Dept. of Admin. Identified - DCA is a support agency for line agencies and impacts to the department may	Ken Borja	
		1	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Four		al .	1		1	Dept of A

Page 2 of

REVIEW COMMENTS SHEET

Vel	Cher	Po Line, To LP o	Commin	Currenter (less name)	Age
		-	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	+
			depend on how other agencies are affected by the EtS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Four	9				Dept of Adm
			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
	1		depend on how other agencies are affected by the BIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Four	10	1			Dept of Adre
			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	+
	1		depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FIE's and payroll.		1
Four	11				Dept of Adm
			No direct impact for the Dept. of Admin. Identified - DGA is a support agency for line agencies and impacts to the department may	Ken Borja	
	1	1	depend on how other agencies are affected by the £15. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Faur	12				Dept of Adm
			No direct impact for the Dept. of Admir., identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
			depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Four	13				Dept of Adm
	1	1	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
		l l	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		Dept of Adn
Four	14			Non Baria	Dept of Acre
	1		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroli.	Not ourja	1
	15	1	objects on how other agencies are anected by the ES. DUA currency has the capacity to process the naring or FTE's and payron.	1	Dept of Adm
Four	15		No direct impact for the Dept. of Admin. identified - DCA is a support agency for line agencies and impacts to the department may	Yes Boris	Dept or run
	1 1	1	idepend on how other agencies are affected by the ES. DOA currently has the capacity to process the hiring of FTE's and payroll.	ven onle	
Feur	16		appears on now state against an amount of the part of		Dept of Adn
roux	20		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Kon Borio	- Contract
			depend on how other agencies are affected by the EIS. COA currently has the capacity to process the lifting of FTE's and payroll.	recei des pe	1
Four	17		depend on 1000 those agreement and control of the c		Dept of Adm
POR:	1		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	Dupton san
	1		depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroli.		1
Four	18		appears on the detail of the second of the s		Dept of Adn
1001	1	-	No direct impact for the Dept. of Admin. identified - DOA is a support agency for Fine agencies and impacts to the department may	Ken Borja	1
		1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Four	19				Dept of Adr
			No direct impact for the Dept, of Admin, identified - DCA is a support agency for line agencies and impacts to the department may	Ken Borja	
	1		depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the living of FTE's and payroll.		
Five	1			1	Dept of Adn
			No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
	1		depend on how other agencies are affected by the EIS. OOA currently has the capacity to process the hiring of FTE's and payroll.	1	
Five	2				Dept of Adn
			No direct Impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Sorja	
			depend on how other agencies are affected by the EIS. DCA currently has the capacity to process the hiring of FTE's and payroll.	1	
Five	3			-	Dept of Ada
FINE			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
FINE	1		depend on flow other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FRCs and payrols.		
	1			-	Dept of Adn
Five	4				
	4	+	No direct impact for the Dept, of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
Five	4		No direct impact for the Dept. of Admin. identified - DQA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the EIS. DQA currently has the Capacity to process the hiring of FTE's and payroll.	Ken Borja	Dogs of 5 d
	5		depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		Dept of Adm
Five	5				Dept of Adm

Page 3 of

DEIS REVIEW COMMENTS SHEET

vel	che!	Po	Line, Tolerin	CAPTURE CONTRACTOR CONTRACTOR CONTRACTOR	(lest name)	Agencyto
-		н		No direct impact for the Dept, of Admin, Identified - DQA is a support agency for line agencies and impacts to the department may	Ken Borja	
				depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Five						Dept of Adm
				No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
	1			depend on how other agencies are affected by the ES. DOA currently has the capacity to process the hiring of FTE's and payroll.	Į.	Dept of Ada
Five	8	\vdash		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	V Dada	(Dept or Adi
		H		depend on how other agencies are affected by the Efs. DCA currently has the capacity to process the hiring of FTE's and payroll.	Acer body	
Five	9			problem on 1956 details all distriction of Australia and Australia and Australia Austr		Dept of Adr
11111				No direct impact for the Degt. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
		1 1		depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Five	10					Dept of Ad
		П		No direct impact for the Dept. of Admin. identified - DCA is a support agency for line agencies and impacts to the department may	Ken Borja	
				depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FRI's and payroll.		
Five	11	\Box				Dept of Ads
1	1	1		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
-		ш		depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of PTE's and payroll.		Dept of Ade
Five	12	Н		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Kan Basis	Dept of As
1			Į.	depend on how other agencies are affected by the BIS. DOA currently has the capacity to process the hiring of FTE's and payroll.	NEI BUIJA	1
five	13			arpens on now used agences are an extensive use one contently this are expensively occur and names of the 2 most portion.		Dept of Ad
rave	1	Н		No direct Impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
				depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Five	14	1 1			i	Dept of Ad
		П		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and Impacts to the department may	Ken Barja	
				depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Five	15					Dept of Ad
				No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
	1			depend on how other agencies are affected by the EIS. DCA currently has the capacity to process the hiring of FTE's and payroli.		
Five	16	-			Ver Beele	Dept of Ad
				No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTC's and payroli.	Ken burja	1
Five	17	1	1	depend on now other agendes are anetted by the etc. But custominy his the customy or process electricing or energy and project.		Dept of Ad
1110				No direct impact for the Dept. of Admin, identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	1
1			1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Five	18					Dept of Ad
				No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Xen Borja	
			1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FIE's and payroll.	I	1
Five	19	1				Dept of Ad
				No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
-		1	ł	depend on how other agencies are affected by the EIS. OOA corrently has the capacity to process the living of PTE's and payroll.		Dept of Ad
Six	1 1	-		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Yen Boria	DESC GC AG
	1		ł	depend on how other arendes are affected by the EIS. DOA corrently has the capacity to process the hiring of FTE's and payroll.		
Sx	,	Į I	Į.	September 1912 of 1912	1	Dept of Ad
-	+	\vdash	1	No direct impact for the Bept, of Admin, Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
	1			depend on flow other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTII's and payroli.		1
Six	3		}			Dept of Ad
1				No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
			i	depend on how other agencies are affected by the BIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Six	4		1	i contract of the contract of	1	Dept of Add

Page 4 of 8

DUS REVIEW COMMENTS SHEET DEPARTMENT OF ADMINISTRATION

Vω	Clipi	P. C. Stan		Com Tenter (last riane)	Apereyon
			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	1
Six			depend on how other agencies are affected by the EtS. DOA currently has the capacity to process the hiring of FTE's and payroit.		Dept of Admin
314	-		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	Dept of Adrian
		1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Six	6				Dept of Admin
1			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the ElS. DOA currently has the capacity to process the hiring of FTI's and payoril.	Ken Borja	1
Stx	7		depend on non-vision agricultural and account of the control of th		Dept of Admin
			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
L.		1 1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		
Six	8		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agandes and impacts to the department may	Von Vools	Dopt of Admin
ĺ	1		depend on how other agendes are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.	Nen occja	i
Shr	9				Dept of Admin
			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	T
es.	10		depend on how other agencies are affected by the EIS. DCA currently has the capacity to process the hiring of FTE's and payroll.	1	Description of Admire
JAK .	10		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	Dept of Admin
			depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroli.	no. oo p	1
Ste	11				Dept of Adrein
			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
Six	12	1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.	-	Dept of Admin
	- **		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	Dept of Hallen
			depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Six	13				Dept of Admin
	1 .		No direct impact for the Dept. of Admin. identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
Six	14	1 1	depend on how other agencies are affected by the EES. DOA currently has the capacity to process the hiring of FTE's and payrolf.	1	Dept of Admin
			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Boria	Dept of Autran
		1 1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.		1
Six	15				Dept of Admin
	i	1 1	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.	Ken Borja	1
Six	16		depend of now other agencies are affected by the cit. DOM currency has the capacity to process the naving or rices and payrou.		Deat of Admin
			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	Disprocession.
1			depend on how other agencies are affected by the EIS. DDA currently has the capacity to process the hiring of FTE's and payroll.		1
Stx	17			<u></u>	Dept of Admin
1		1	No direct impact for the Dept. of Admin. identified - DCA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the highly of FTE's and payoril.	Ken Borja	1
She	18	1 1	depend of the state agency are tracted by the tracted process of the state of the state payor.	1	Dept of Admin
	1		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
		1 1	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hirlag of FIE's and payroll.		1
Stx	19	-	No disease of the Book of Adole Market and Adole Section 1994	L	Dept of Admin
	1		No direct impact for the Dept. of Admin. Identified - DGA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the EIS. DDA currently has the capacity to process the hiring of FEE's and payroll.	iken Borja	1
Six	20		and the same of th	1	Dept of Admin
			No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	
			depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTU's and payroll.	1	1
Six	21		I	1	Dept of Admin

Page 5 of 6

DES REVIEW COMMENTS SHEET

Vot Chipt		Tai Fig Comment	Commenter (ast name)	8
		No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll.	Ken Borja	
Seven	11	No direct impact for the Dept, of Admis, identified - DOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the ES. DOA currently has the capacity to process the hiring of FTE's and payors.	Ken Borja	Dept of Ad
Seven	2	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the ES. DOA currently has the capacity to process the hidrar of FEFs and payoril.	Ken Borja	Dept of Ad
Seven	3	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may	Ken Borja	Dept of Ad
Seven	4	depend on how other agencies are affected by the EIS. DOA currently has the capacity to process the hiring of FTE's and payroll. No direct impact for the Dept. of Admin. Identified - DOA is a purport agency for line accrucies and impacts to the department may		Dept of Ac
Eight	1	he discentification for the begin or woman, sessioned a DUA is a support agency for time agencies into impacts to the department may depend on how other agencies are affected by the ES. DOA currently has the capacity to process the hiring of FTE's and payroll.		Dept of Ad
Eight	2	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the U.S. DOA currently has the capacity to process the hiring of FTE's and payroll.		Dept of Ad
Eight	2	No direct impact for the Dept. of Admin. Identified - DOA is a support againty for line agencies and impacts to the department may depend on how other agencies are affected by the ES. DOA currently has the capacity to process the hiring of FTE's and payroll.		Dept of Ad
Eight	4	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the deportment may depend on how other agencies are affected by the ES. DOA currently has the capacity to process the hiring of FTE's and payroll.	Ken Borja	Dept of Ad
Eight	s	No direct impact for the Dept. of Admin. Identified - DOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the EG. DOA currently has the capacity to process the biring of FTC's and payroll.	Ken Borja	Dept of Ac
Eight		No direct impact for the Dept. of Admin. identified - OOA is a support agency for line agencies and impacts to the department may depend on how other agencies are affected by the DS. DOA currently has the capacity to process the hiring of FTE's and payroll.	Ken Borja	Dept of Ac

Page 6 of





indrew S. Leon Guerrero

February 17, 2010

JGPO c/o NAVFAC Pacific 250 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134

Attention: GPMO

Subject:

Draft Environmental Impact Statement DEIS Transmittal Letter of DPW's Comments

Dear Sir:

Transmitted herewith is the Department of Public Work's (with the exception of the Solid Waste Division as it is under the federal receivership) comments related to the DEIS. Due to the time constraints and due to the enormous volume in weight and subject matter materials, within the DIES documentation, the deadline of February 17, 2010, was insufficient. As a result, DPW was unable to perform a complete and thorough review. Our comments were based upon a quick cursory review of the impact rather than a more comprehensive review and assessment of the issues discussed.

It is with deep regret that the time line given to us did not match the technical subject area that was covered within the DEIS documents. To our surprise, upon issuance of the nine volumes at more than eleven thousand pages, to read and analyze what is presented and how it was to be implemented, was a huge undertaking. Moreover, reading the materials, were difficult and trying to understand the proposed plan and actions anticipated by the military into our tiny island of Guam was a tremendous task.

We have attached our comments for your review. Our comments were prepared by the various DPW divisions. Each division commented according to how the DEIS, would be impacted within their division. However, due to time constraints, responses were submitted in various formats. At a minimum, each comment discusses a brief description of the impact, issues, mitigation and the recommended action.

J-021-002 DPW would like to discuss within this cover letter, a major impact that was not included in the DEIS. A major discussion within the DEIS documentation that was not adequately disclosed is the budgetary requirement needed for (GovGuam as a whole) DPW as it relates to this major infrastructure build up both directly and indirectly. For example, DPW is charged with the responsibility in providing to the general public six essential services namely: Public Safety, Public Health, Transportation, Highway Maintenance, Government Wide Support and Capital Improvement Projects. The deficiencies not provided for within the DEIS is the lack of the funding source to be provided by whom and how much. Moreover, a cost analysis was not provided as it relates to GovGuam as a whole. The DEIS provided a layout of what needs to be done but did not have a cost impact to determine the overall budgetary needs.

542 North Marine Corps Drive - Tamuning, Guam 96913 * Tel (671) 646-3131 * Fax (671) 649-6178

J-021-001

Thank you for your comment. The proposed actions are complex and have many components. In order to characterize the affected environment and potential impacts, sufficient detail needed to be included in the Draft EIS. The Draft EIS was broken down by Volumes for each major action, and the Executive Summary provides an overview of the proposed actions to facilitate readability. The Draft EIS was developed with the intent to balance readability with sufficient technical information.

The DoD carefully considered all requests to extend the length of the comment period beyond the 45-day minimum required by NEPA. In evaluating multiple options, DoD leadership determined that a 90-day comment period best balanced the need for sufficient time to review a complex document with the requirement to reach a timely decision regarding the proposed military buildup on Guam.

J-021-002

Thank you for your comment. The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the US Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DoD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The DoD, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency

J-021-002 As a result, of the DEIS lack of funding sources, DPW projected (using a conservative approach) our budgetary needs that will impact our operations both directly and indirectly. The estimated amount DPW projected is \$35 Million at a minimum. Inclusive of this \$35M amount, is the cost for DPW to operate under the DEIS conditions to include the following cost categories; fuel, utility cost for maintaining public streetlights throughout the whole island, the acquisition for additional school buses to transport the influx of new students from the public school system and other capital purchases (heavy equipment) to maintain the roads and supplies and materials to maintain and provide construction, professional and technical services the various public facilities including the public school facilities.

> Furthermore, the DEIS discusses the various road projects related to the Guam Road Network GRN as referenced in Volume 6, Chapter 4. However, the funding for these GRN road projects is not guaranteed that there will be federal funds to finance the preferred roadway projects. In addition, there are many factors related to the project costs to include land acquisition for the expansion of roads. The total costs of these various projects if they were to be fully funded or partially funded by either FHWA or by the DAR road program were not adequately discussed. The only reference that discusses the funding source can be found on, Volume 1 of the Executive Summary, page ES-30, states the following:

'The project may be funded by FHWA through annual allocations for calendar years 2010 through 2016 and funding requested under the Defense Access Road Program, which provides the means for DOD to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense related public highway requirement."

The above sentence does not make it an absolute that all the road projects will be federally funded. In addition, what is the contingency plan if Guam does not obtain any funding? Whereas, if it is federally funded, then the DEIS should state it clearly and to also disclose if the funding will be partially funded using a certain cost share percentage. This budgetary issue is a major concern for DPW. Currently, DPW is given a bare bone budget for our operations for the past and current year.

Your consideration in reviewing the attached comments and in providing your responses to each comment is greatly appreciated.

Dangkulo na si Yu'os Maase.

Respectfully submitted,

Andrew S. Leon Guerrero Acting Director, Dept. of Public Works

Attachments:

Overall Budget Request Package Division Budget Request Package

Cc: Bureau of Budget and Management and Research, BBMR Bureau of Planning, BOP Governor's Office, Guam Building Office

542 North Marine Corps Drive - Tamuning, Guam 96913 * Tel (671) 646-3131 * Fax (671) 649-6178

Guam and CNMI Military Relocation DEIS/OEIS

council which includes the USDOT to assist the Government of Guam in seeking funds for projects that are not eligible for the DAR program.

GOVERNMENT OF GUAM

DEPARTMENT OF PUBLIC WORKS (Note: Solid Waste Management no included)

Table of Contents

- Budget Memo
 - Military Buildup Budget
- Comments from Divisions by DEIS Volume
 - Volume 1, Volume 9
 - Administration Division
 - Building Construction & Facilities Maintenance Division
 - · Office of Highway Safety
 - · Bus Operations Division
 - · Transportation Maintenance Division
 - Volume 2, Volume 3
 - · Administration Division
 - Building Construction & Facilities Maintenance Division
 - · Office of Highway Safety
 - Transportation Maintenance Division
 - Volume 4, Volume 5
 - · Administration Division
 - Building Construction & Facilities Maintenance Division
 - · Highways Division
 - · Office of Highway Safety
 - Volume 6, Volume 7
 - · Administration Division
 - Building Construction & Facilities Maintenance Division
 - Transportation Maintenance Division
 - Volume 8
 - · Administration Division
 - . Building Construction & Facilities Maintenance Division
- · Comments from Divisions as submitted
 - Administration Division
 - Building Construction & Facilities Maintenance Division
 - Bus Operations Division
 - Engineering (Vertical) Capital Improvement Projects
 - Engineering (Horizontal) Highways Division
 - Office of Highway Safety
 - Transportation Maintenance Division
 - Solid Waste Management (not included)





February 17, 2010

Memorandum

To:

Governor of Gua

From:

Acting Director, Dept. of Public Works

Subject:

DEIS Overall Budgetary Impact to DPW

Hafa Adai!

J-021-003 Transmitted herewith is the Department of Public Works budget request for the Department related to the DEIS documentation as it relates to the upcoming military build-up proposed plan. This budgetary impact excludes the Solid Waste Management Division as the division is under the receivership of the federal government. Due to the DEIS, DPW will be requesting \$35 Million, in order to implement the DEIS the effects of the population growth and the mandates required from DPW to prepare for this major task assignment to the general public. The amount projected of \$35M, is a conservative figure. In addition, this amount represents a supplemental budget request in addition to our normal operational budget needs. Furthermore, this amount represents DPW's impact both direct and indirect, that is an unfunded mandate and is not addressed within the DEIS documents.

> DPW is charged with the responsibility in providing to the general public six essential services namely: Public Safety, Public Health, Transportation, Highway Maintenance, Government Wide Support and Capital Improvement Projects. The deficiencies not provided for within the DEIS is the lack of the funding source to be provided by whom and how much. Moreover, a cost analysis was not provided as it relates to GovGuam as a whole. The DEIS provided a layout of what needs to be done but did not have a cost impact to determine the overall budgetary needs.

BUDGETARY IMPACT ON GENERAL OPERATIONS (DEIS VOLUMES 1, 2, 6 & 9)

General operational costs were estimated to include labor cost for bus operations, emergency first responders, transportation and highway maintenance workers as well as heavy equipment mechanics and the dire need to hire additional personnel for physical security of the premises. Moreover, other costs to include capital outlay such as the purchases of new school buses (to accommodate the influx of public school children) and the need to purchase other heavy equipment and vehicles for the repair and maintenance of the roads and public facilities to include schools, bus stops, debris and emergency clean up, etc. Other purchases include the need for supplies and equipment, maintenance, repair and replacement of parts, tires, batteries, fuel and oil. Lastly, utility costs for running the office and for public street lights throughout the whole island are part of the major cost factors estimated in this budget projection.

J-021-004

WASTE MANAGEMENT (VOLUME 6)

The Consent Decree requirements related to the closing and opening of the old and new landfill is currently

542 North Marine Corps Drive • Tamuning, Guam 93913 • Tel (671) 646-3131 • Fax (671) 649-6178

Guam and CNMI Military Relocation DEIS/OEIS

J-021-003

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-021-004

Thank you for your comment. DoD is restricted on its budget expenditures for their personnel and facilities. DoD would be a customer of the new landfill and would pay tipping fees. Guam needs to arrange the tipping fees such that they will sustain the landfill for all aspects, including operations, maintenance, closure, financing for future expansion or replacement, etc. The EIS contains an estimate of the volume of waste expected from DoD. Knowing the tipping fee, the landfill operator should be able to estimate the amount of revenue they would receive.

J-021-004

underway and is being addressed during this current period. With regards to the long term debt obligations, an increase in revenues from the Solid Waste Fund SWF remains inadequate. With the military being a large clientele, the DEIS did not discuss the payment fees other than the tipping fee will cost GovGuam much more due to the financing cost of interest and other charges. It is our understanding that the receiver will address this matter as well as their operational budgetary needs directly with the US District Court. For the purpose of the DEIS impact, it is critical that this matter is addressed as the DEIS only stated a very small discussion when this is a major and a direct impact to the island both quantitatively, as well as qualitatively related to land, air and surrounding environment.

J-021-005 ROADWAYS (VOLUME 6)

Another example of our impact includes DPW's GPA streetlight costs for utility services to the general public. If the population increases, and we have additional roads, we will need our streetlights to keep the public safe. We estimate this will reach double the amount currently tracking due to the increase in fuel prices as well as the cost for supplying the equipment and future maintenance.

One other concern worth mentioning is the increase in student population for the Department of Education. This is a direct impact to DPW's Bus Operations as we provide bus services to students to and from the various public schools on the island. Inclusive of DPW's projected budget, there will be a need to purchase fifty-three additional buses just to keep up with the demand of more than six thousand new school students. In addition to purchasing school buses, constructing school bus shelters, the demand for fuel for the buses to run, the need for additional school bus drivers and mechanics are part of the budgetary projections. These unfunded obligations were not included within the DEIS document.

Village streets and other secondary roads & pothole projects, infrastructure, school projects, school building and bus shelters and other capital projects funding are examples of how the DEIS can also be impacted upon the department. DPW projected these costs into our budget request given the best way we can (best guess), given the time constraints and complexity. The bottom line is that the DEIS did not adequately address the budgetary issues of the infrastructure build up requirements in aggregate. Neither the overall impact, nor the funding issues associated with the build up to accommodate the population boom was defined within the nine volumes of the DEIS.

The DEIS addressed the road projects in Volume 6 chapter 4. However, the amount required was not disclosed of additional as referenced in the DEIS Volume ES30, the amount "may be" obtained is not a guarantee. The total costs of these various projects if they were to be fully funded and by whom. The land issues related to the road projects were not adequately disclosed nor the method of how the land will be acquired. The only reference that discusses the funding source can be found on, Volume 1 of the Executive Summary, page ES-30, states the following:

'The project <u>may be</u> funded by FHWA through annual allocations for calendar years 2010 through 2016 and funding requested under the Defense Access Road Program, which provides the means for <u>DOD to pay a fair share</u> for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense related public highway requirement."

The above sentence does not make it absolutely clear (by explicitly stating funds will be, shall be or fully funded) how the road projects are to be federally funded. What is the contingency plan if Guam does not obtain any funding? Whereas, if it is federally funded, then the DEIS should state within the DEIS if the funding will be partially funded ("DOD to pay a fair share") using a certain cost share percentage. This

542 North Marine Corps Drive . Tamuning, Guam 93913 • Tel (671) 646-3131 • Fax (671) 649-6178

Guam and CNMI Military Relocation DEIS/OEIS

J-021-005

Thank you for your comment. The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the US Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DoD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The DoD, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to assist the Government of Guam in seeking funds for projects that are not eligible for the DAR program.

J-021-005

budgetary issue is a major concern for DPW. Currently, DPW is given a bare bone budget for our operations for the past and current year and having a cost share will contribute to our existing budgetary crisis.

Dangkulo na si Yu'us Maase.

Attachments:

Overall Budget Request Package Division Budget Request Package

Cc: Bureau of Budget and Management and Research, BBMR Bureau of Planning, BOP Governor's Office, Guam Building Office Government of Guam Fiscal Year 2011 Military Buildup Budget Digest [PROPOSED]

Function:

Infrastructure, Utilities and Transportation

Department/Agency: Program: Fund:

Department of Public Works DEPARTMENT SUMMARY

		A	В	С	D	Е	F
					Governo	r's Request	
AS400	Appropriation Classification	FY 2010	FY 2010	FY 2011	FY 2011	FY 2011	FY 2011
Account	Appropriation Classification	Expenditures &	Authorized	General	Federal Match	Other	Total Req.
Code	l	Encumbrances	Level	Fund	Fund(s)	Fund 1/	(C+D+E)
	PERSONNEL SERVICES	7					
111	Regular Salaries/Increments	S0	50	SO	50	3,884,524	3,884,524
112	Overtime/Special Pay	0	0	0			90,18
113	Benefits	0	0	0	0	2,050,678	2,050,678
TAL PER	RSONNEL SERVICES	S0	50	\$0	\$6	6,025,384	6,025,38
	OPERATIONS						
220	TRAVEL- Off-Island'Local Milicage Releabours.	SO	SO	\$0	50	128,050	128,050
220	TRUE V ELEP UNIVERSE DELL PRICESS RESIDENCE.	30		1		1201000 7	720,700
230	CONTRACTUAL SERVICES:	0	0	0	0	660,840	660,840
233	OFFICE SPACE RENTAL:	0	0	0	0	-1	
240	SUPPLIES & MATERIALS:	0	0	0	0	2,401,611	2,401,611
					0	*******	***
250	EQUIPMENT:	0	0	0	0	207,665	207,665
270	WORKERS COMPENSATION:	0	0	0	0		
271	DRUG TESTING:	0	0	0	0	3,611	3,61
280	SUB-RECIPIENT/SUBGRANT:	0	0	0	0		
290	MISCELLANEOUS:	0	0	0	0	10,000,000	10,000,000
	TOTAL OPERATIONS	SØ	50	SO	\$0	13,401,776	13,401,770
	101100000000000000000000000000000000000					I	
	UTILITIES	SO	eal	50	\$0		
361	Power	50	50	0			
362 363	Water/ Sewer	0	0	0	-		9,280
363	Telephone/ Toll TOTAL UTILITIES	SO	\$0	50	\$0	9,280	9,28
450	CAPITAL OUTLAY	SO	\$0	50	\$0	15,972,499	15,972,499
	TOTAL APPROPRIATIONS	50	\$0	S0	50	35,408,939	35,408,93
	1/ Specify Fund Source						
TIME E	QUIVALENCIES (FTEs)						
	UNCLASSIFIED	0	0	0		***************************************	
	CLASSIFIED	0	0	0			179
	TOTAL FTEs	0	0	0		179	179

MILITARY BUDGET Summary Digest Department Summary 1 FEB-14-2010

Government of Guam Fiscal Year 2011 Military Buildup Budget Digest [PROPOSED]

DEPARTMENT DIGEST SUMMARY

						CIP		
PERSONNEL SERVICES	ADM 705.609	BUS 812,326	BUS FUEL	TM 506.086	BM 399,115	947,618	HWY 513,770	TOTAL
Regular Salaries/Increments Overtime/Special Pay	90,182	812,326	0	080,000	399,113	947,618	513,770	3,884,524 90,182
Denefits Benefits	387,214	452,817	0	262,905	221.849	451,371	274,522	2,050,678
TOTAL PERSONNEL SERVICES	1,183,005	1,265,143	0	768,991	620,964	1,398,989	788,292	6,025,384
TOTAL PERSONNEL SERVICES	. 1,103,003	1,205,145	U	700,791	020,904	1,390,909	700,232	0,023,364
OPERATIONS								
TRAVEL-Off-Island-Lecal Mileage Reimbars.	0	0		0	0	128,050	0	128,050
CONTRACTUAL SERVICES:	18,218	50,000		187,000	42,850	82,500	280,272	660,840
OFFICE SPACE RENTAL:	0	0		0	0	0	0	ō
SUPPLIES & MATERIALS:	50,000	800,000	800,000	194,000	412,420	75,191	70,000	2,401,611
EQUIPMENT:	19,884	0		0	60,000	83,797	43,984	207,665
WORKERS COMPENSATION:	0	0		0	0	0	0	0
DRUG TESTING:	1,108	0		822	751	0	930	3,611
SUB-RECIPIENT/SUBGRANT:	0	0		0	0	0	0	0
MISCELLANEOUS:	10,000,000	0		0	0	0	0	10,000,000
TOTAL OPERATIONS	10,089,210	850,000	800,000	381,822	516,021	369,538	395,186	13,401,777
UTILITIES								
Power	. 0	0		0	0	0	0	0
Water/ Sewer	. 0	0		0	0	0	0	0
Telephone/ Toll	0	0		0	9,280	0	0	9,280
TOTAL UTILITIES	. 0	0	0	0	9,280	0	0	9,280
CAPITAL OUTLAY	219,999	11,057,500	0	800,000	200,006	395,000	3,300,000	15,972,499
TOTAL APPROPRIATIONS	11,492,214	13,172,643	800,000	1,950,813	1,346,265	2,163,527	4,483,478	35,408,940
1/ Specify Fund Source			13,972,643					
FULL TIME EQUIVALENCIES (FTEs)								
UNCLASSIFIED								
CLASSIFIED	. 31	43	0	18	21	35	36	184
TOTAL FTEs								

FEB-14-2010 Department Summary 2 Summary Digest

Government of Guam Fiscal Year 2011 Military Buildup Budget Digest [PROPOSED]

Function:

Infrastructure, Utilities and Transportation

Department/Agency: Program: Fund:

Department of Public Works DEPARTMENT SUMMARY

		A	В	С	D	E	F
		_ ^				r's Request	
AS400		FY 2010	FY 2010	FY 2011	FY 2011	FY 2011	FY 2011
	Appropriation Classification	Expenditures &	Authorized	General	Federal Match	Other	Total Reg.
Account			Level	Fund	Fund(s)	Fund 1/	(C+D+E)
Code		Encumbrances	Level	Fund	rund(s)	Fund I/	(C+D+E)
	PERSONNEL SERVICES						
111	Regular Salaries/Increments	\$0	\$9	SC	50	3,884,524	3,884,524
112	Overtime/Special Pay	0	0	(0	. 90,182	90,182
113	Benefits	0	0	(0	2,050,678	2,050,678
)TAL PER	SONNEL SERVICES	\$0	50	SC	\$0	6,025,384	6,025,384
	OPERATIONS	_					
220	TRAVEL- Off-Island Local Mileage Relations.	SO	50	SC	So	128,050	128,050
220	TRAVEL-Off-HundLocal Mileage Brimburs.	30	301	- 34	30	120,050 [120,030
230	CONTRACTUAL SERVICES:	0	0		0	650,840	660,840
233	OFFICE SPACE RENTAL:	- l	ol		. 0	_1	
	1						
240	SUPPLIES & MATERIALS:	0	0		0	2,401,611	2,401,611
250	EQUIPMENT:	0	0		0	207,665	207,665
270	WORKERS COMPENSATION:	0	0		0		
271	DRUG TESTING:	0	0		0	3,611	3,611
280	SUB-RECIPIENT/SUBGRANT:	0	0	[0	0	-	
290	MISCELLANEOUS:	0	0		0	10,090,009	10,060,000
	TOTAL OPERATIONS	\$0	S0	So	\$0	13,401,776	13,401,776
	UTILITIES	\neg					
361	Power	SO.	50	St	S0		
362	Water/ Sewer	0	0	0			
363	Telephone/ Toli	0	0	-		9,280	9,280
	TOTAL UTILITIES	\$0	SO	SI		9,280	9,280
	10111201111111					1,200	-,
450	CAPITAL OUTLAY	\$0	S0	St	50	15,972,499	15,972,499
	TOTAL APPROPRIATIONS	\$0	50	\$0	80	35,498,939	35,408,939
	1/ Specify Fund Source						
TIME EC	QUIVALENCIES (FTEs)		name and the second				
	UNCLASSIFIED	0	0			-	
	CLASSIFIED	0	0			179	179
	TOTAL FTES	0	0		0	179	179

MILITARY BUDGET Summary Digest Department Summary 1

FEB-14-2010

Government of Guam Fiscal Year 2011 Military Buildup Budget Digest [PROPOSED]

DEPARTMENT DIGEST SUMMARY

PERSONNEL SERVICES	ADM	BUS	BUS FUEL	TM	BM	CIP	HWY	TOTAL
Regular Salaries/Increments	705,609	812,326	0	506,086	399,115	947,618	513,770	3,884,524
Overtime/Special Pay	90,182	0	0	0	0	0	0	90,182
Benefits	387,214	452,817	0	262,905	221,849	451,371	274,522	2,050,678
TOTAL PERSONNEL SERVICES	1,183,005	1,265,143	0	768,991	620,964	1,398,989	788,292	6,025,384
OPERATIONS								
TRAVEL- Off-telestic Lacal Milleage Retrolours.	0	0		0	0	128,050	0	128,050
CONTRACTUAL SERVICES:	18,218	50,000		187,000	42,850	82,500	280,272	660,840
OFFICE SPACE RENTAL:	. 0	0		0	0	0	0	0
SUPPLIES & MATERIALS:	50,000	800,000	800,000	194,000	412,420	75,191	70,000	2,401,611
EQUIPMENT:	19,884	0		0	60,000	83,797	43,984	207,665
WORKERS COMPENSATION:	0	0		0	0	0	0	0
DRUG TESTING:	1,108	0		822	751	0	930	3,611
SUB-RECIPIENT/SUBGRANT:	0	0		0	0	0	0	0
MISCELLANEOUS:	10,000,000	0		0	0	0	0	10,090,000
TOTAL OPERATIONS	10,089,210	850,000	800,000	381,822	516,021	369,538	395,186	13,401,777
UTILITIES								
Power	. 0	0		0	0	0	0	0
Water/ Sewer	0	0		0	0	0	0	0
Telephone/ Toll	0	0		0	9,280	0	0	9,280
TOTAL UTILITIES	. 0	0	0	0	9,280	0	0	9,280
CAPITAL OUTLAY	219,999	11,057,500	0	800,000	200,000	395,000	3,300,000	15,972,499
TOTAL APPROPRIATIONS 1/ Specify Fund Source	11,492,214	13,172,643	800,000 13,972,643	1,950,813	1,346,265	2,163,527	4,483,478	35,408,940
FULL TIME EQUIVALENCIES (FTEs) UNCLASSIFIED CLASSIFIED	31	43	. ₀	18	21	35	36	184
TOTAL FTEs								

FEB-14-2010 Department Summary 2 Summary Digest

Government of Guam
DEPARTMENT OF PUBLIC WORKS
Fiscal Year 2011 Military Buildup
Department Budget Digest Summary
[PROPOSED]

Department/Agency:

Infrastructure, Utilities and Transportation Department of Public Works DEPARTMENT SUMMARY

Program: Fund:

		A	В	С	D	E	F
					Governo	r's Request	
AS460	Appropriation Classification	FY 2010	FY 2010	FY 2011	FY 2011	FY 2011	FY 2011
Account	Appropriation Classification	Expenditures &	Authorized	General	Federal Match	Other	Total Req.
Code		Encumbrances	Level	Fund	Fund(s)	Fund 1/	(C+D+E)
	PERSONNEL SERVICES						2 00 / 52 /
111	Regular Salaries/Increments	50	50				3,884,524
112	Overtime/Special Pay	9	0	0			90,182
113	Benefits	0	0	0		2,050,678	2,050,678
TAL PER	RSONNEL SERVICES	50	50	\$0	\$0	6,025,384	6,025,384
	OPERATIONS						
220	TRAVEL- Off-Island/Loral Mileage Reinsburg.	S0	SO	50	S0	128,050	128,050
429	TACT FED OF HAMPEN STRONG RESIDENT.					,	
230	CONTRACTUAL SERVICES:	0	0	0	0	660,840	660,840
	learner and an activity	0	0	0			
233	OFFICE SPACE RENTAL:	0	0				-
240	SUPPLIES & MATERIALS:	0	0	0	0	2,401,611	2,401,611
250	EQUIPMENT:	0	0	0		207,665	287,665
270	WORKERS COMPENSATION:	0	0	0	0		
270	WORKERS COME ENGRY ASIA						
271	DRUG TESTING:	0	0	0	0	3,611	3,611
280	SUB-RECIPIENT/SUBGRANT:	0	0	0	0		
280	SUB-RECIPIENT/SUBGRANT:						
290	MISCELLANEOUS:	0	9	0	0	10,600,000	10,000,000
	TOTAL OPERATIONS	50	\$0	50	\$0	13,401,776	13,401,776
	UTILITIES	_					
361	Power	SO	50	SO	\$0	-	-
362	Water/ Sewer	0	0	0			-
363	Telephone/ Toll	0	0	0		9,280	9,280
	TOTAL UTILITIES	\$0	\$0	50	50		9,280
450	CAPITAL OUTLAY	20	\$0	\$6	SO	15,972,499	15,972,499
	TOTAL APPROPRIATIONS	50	\$0	\$0	SO	35,408,939	35,408,939
	I/ Specify Fund Source				<u> </u>		
TIME	QUIVALENCIES (FTEs)	7					
	UNCLASSIFIED	0	0	0			
	CLASSIFIED	0	0	0			179
	TOTAL FTEs	0	0	0		179	179

FEB-14-2010 Department Summary 1 MILITARY BUDGET Summary Digest

Government of Guam
DEPARTMENT OF PUBLIC WORKS
Fiscal Year 2011 Military Baildup
Department Budget Digget Summary
[PROPOSED]

DIVISION CONSOLIDATION BUDGET SUMMARY

	791.7					****		
PERSONNEL SERVICES	ADM	BUS 812,326	BUS FUEL	TM 506.086	BM 399.115	CIP 947.618	HWY 513,770	TOTAL 3,884,524
Regular Salaries/Increments	705,609 90,182	812,326	0	0 080,000	399,113	0 0	513,770	90,182
Overtime/Special Pay Benefits	387,214	452,817	0	262,505	221,849	451,371	274,522	2,050,678
TOTAL PERSONNEL SERVICES	1,183,005	1,265,143	0	768,991	620,964	1,398,989	788,292	6,025,384
TOTAL PERSONNEL SERVICES	1,103,005	1,205,145		700,551	020,904	1,390,909	100,272	0,023,304
OPERATIONS								
TRAVEL-OF-tslend/Local Mileage Reimbers.	0	0		0	0	128,050	0	128,050
110 t 1 200 OF the second triangle triangle	_	-				,		,
CONTRACTUAL SERVICES:	18,218	50,000		187,000	42,850	82,500	280,272	660,840
OFFICE SPACE RENTAL:	0	0		0	0	0	0	0
SUPPLIES & MATERIALS:	50,000	800,000	800,000	194,000	412,420	75,191	70,000	2,401,611
EQUIPMENT:	19,884	0		0	60,000	83,797	43,984	207,665
WORKERS COMPENSATION:	0	0		0	0	0	0	0
DRUG TESTING:	1,108	0		822	751	0	930	3,611
SUB-RECIPIENT/SUBGRANT:	0	0		0	0	0	0	0

MISCELLANEOUS:	10,000,000	0		0	0	0	0	10,000,000
		040.000	000.000	201.022	516,021	260.610	207.107	12 401 777
TOTAL OPERATIONS	10,089,210	850,000	800,000	381,822	510,021	369,538	395,186	13,401,777
UTILITIES								
Power	0	0		0	-0	0	0	0
Water/ Sewer	0	0		0	0	0	0	0
Telephone/ Toll	0	0		0	9,280	0	0	9,280
TOTAL UTILITIES	0	0	0	0	9,280	0	0	9,280
TO THE OTHER PROPERTY.								
CAPITAL OUTLAY	219,999	11,057,500	0	800,008	200,000	395,000	3,300,000	15,972,499
TOTAL APPROPRIATIONS	11,492,214	13,172,643	800,000	1,950,813	1,346,265	2,163,527	4,483,478	35,408,940
1/ Specify Fund Source			13,972,643					
FULL TIME EQUIVALENCIES (FTEs)								
UNCLASSIFIED								
CLASSIFIED	31	43	0	23	21	35	26	179
TOTAL FTEs								

FEB-14-2010 Department Summary 2 MILLTARY BUDGET Summary Digest

Bureau of Budget and Management Research Civilian/Miltary Task Force Budget 38MR FORM CMTF-1

CMTF Subcommittee: Program/Function; DEPARTMENT OF PUBLIC WORKS

INFRASTRUCTURE, UTILITIES and TRANSPORTATION SUMMARY

			Personn	el	Operational R	tequirements	Contracted F	ositions	Contractua	Operations	Travel	Grand
Division	FTEs		Salary	Benefits	Item	Cost	Positions	Salary	Item	Cost	Cost	Total
Administration Division	31	S	795,790	\$ 387,214	MYSSHARRES	\$ 10,309,209		s .		s -	\$ -	\$ 11,492,213
Bus Operations Division	43	S	812,326	\$ 452,817		\$ 12,707,500				s -	\$ -	\$ 13,972,643
Transportation Maint Division	23	5	506,086	\$ 262,905		\$ 1,181,822		s -		s	\$ -	\$ 1,950,813
Capital Improvement Projects	35	8	947,618	\$ 451,371		\$ 636,488		s -		5	\$ 128,050	\$ 2,163,527
Building Const & Facilities Maint Division	21	5	399,115	\$ 221,849	1 See 1	\$ 725,301		s -		\$	\$ -	\$ 1,346,268
Highways Division	26	\$	513,770	\$ 274,522		\$ 3,695,186		s -		\$ -	\$.	\$ 4,483,477
												5 -
STREET,					Contract Contract				Comment of			\$.
AND THE STATE OF T												s -
							m-a-c		STREET			\$ -
THE PROPERTY OF THE PARTY OF TH							Sill Aire Sill		1000000			S .
		_					SSS Herences		1116333331118			s .
							8811144888		atata Personal			\$.
	1	-	-									s -
Survivation of Carter States of the States of the States	1											5 -
CHI BUNG TO DO COMPANION AND AND AND AND AND AND AND AND AND AN	1				000000000000000000000000000000000000000				i di di			\$ -
	-				i				111111111111			s .
		-					000000141041000000	-				5 .
Britania de la compania de la compa	+	-			100				COLUMN TO SERVICE STREET			5 -
	-	-							300 0000 ISS			\$.
CONTROL NO PROPERTY OF A STATE OF STATE OF STATE OF	1	-							200000000000000000000000000000000000000			Š .
CANCEL AND THE STATE OF THE STATE OF	1	-							100000000000000000000000000000000000000			\$
	-	-					3444		SING STRANGER			· .
	1	-										ė .
	-	-							-			8 -
otal	1	٠.	3,974,705	\$ 2,050,678	100	\$ 29,255,506				_	\$ 128,050	\$ 35,408,939

FEB-14-2010 Summary (Div.) 3 of 43

Bureau of Budget and Management Research Civilian/Military Task Force Budget

d Management Research BBMR FORM CMTF-1

Department/Agency: DEPARTMENT OF PUBLIC WORKS

CMT 5 Subcommentates: INFRASTRUCTURE, UTILITIES and TRANSPORTATION
Potential Federal Funding Source: SUMMARY

Personn	el			Operational Requirements		Contracted	Positions	ractual Operation	ons	Travel	Grand
Position Title	FTEs	Salary Ber	nefits	Item	Cost	Positions	Salary	Item	Cost	Cost	Total
Administration Division	2	35,270	20,335	i-Connect air-time services (16)	8,218			O min seeds	0	0	63,82
	1	19.974	10,844	1-Connect Maint (16)	10,000						40,81
	1	16,656	9,885	ID Supplies (1 lot)	20,000						46,54
2.22	24	639,283	306,482	Safety Supplies/Matl (1 lot)	25,000						970,76
	3	84,607	39,668	Uniform (62 set - guards))	5,000			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			129,27
				Computers (6)	11,994			H H-44			11,99
	H			Digital Camera (5)	1,250	Section 2					1,25
				ID Machine (1)	6,000			and property and			6,00
				I-Connect Radios (16)	640	44444		1 Harris 1			64
				Street Lights	10,000,000	4		111111111111111111111111111111111111111		_	10,000,00
		_		Drug Testing	1,109						1,10
	1			3-SUV (compact size)	48,000	1998/22/2003		300 Sept. 10			48,00
		1		3-SUV (mid-size)	75,000						75,00
	1			1-Pickup Truck	14,999						14,99
				1-Cargo Van	27,000			SOURCE STORY	•		27,00
				1 Lot - Surveillance Cameras	55,000	Inner in					55,00
Bus Operations Division	2	35,270		First Aid/CPR Certification Training(30)	600						56,20
	1 1	26,520		Rebuild of Starter (School Buses)(50)	12,500						51,75
	1	18,723		Rebuild of Alternator (School Buses)(82)	36,900			-			66.10
	1	26,520		Ports and Materials for School Buses	755,000						794.25
	5	106,945		Office Supplies and Materials	25,000			100000			188.2
	1	26,520		Parts and Materials for Light Official Vehicles	20,000	11110000					59.23
	30			School Buses (S3)	7,420,000			0.004444			8,254,0
	2	42,778		Substation for Aget (Fence & Paving)	190,000	Salahara Salah		100000000000000000000000000000000000000		-	255,21
		74,770		Bus Shelters (aluminum) (197)	3,447,500	6111811181900000		(Canada Sanco			3,447,50
	1			FUEL COST	800,000	10011933					800,00
Transportation Maint Division	2	35,270		Contractural repair for vehicles & equipment	100,000						155,66
Transportation Maint Division	1	26.520		I-Connect Air Time	7.000						46.2
	1	33.811		Waste oil/hazardous materiai disposai	5,000					-	53,65
	3	59,922		Fleet Management Software	75,000						167,4
	7	149.723		Parts and Materials for Light Vehicles	59,000			A00 00000000		****	278.4
2	1	26,520		Parts and Materials for Heavy Equipment	80.000						119,2
		19,974			10,000	000031201233					40,8
444	1 1	18.723	10,482	Batteries for vehicles/equipment	20,000			100000000000000000000000000000000000000		-	49,2
				Misc. Shep Tools	30,000				_	-	193.2
El Ele Service	5	105,945		Misc. Office Supplies	4.000						46.03
A HOUSE	1	28,678			822					-	46,0
				Drug Testing		-					300.0
				Fuel Service Truck	300,000		_	- Charles and the state of the		_	
	81 I			Fuel Tanker Truck	500,000			quintip			500,0

FED-14-2010 Summary (Overall) 4 of 43 Malfane TA Tydingco MLITARY SUDGET

and Menagement Research SBMR FORM CMTF-1

Department/Agency: DEPARTMENT OF PUBLIC WORKS

(MTF Subcommittee: Programs/Function: INFRASTRUCTURE, UTILITIES and TRANSPORTATION

Potential Federal Funding Source: STUMMARY

Personn	el			Operational Requirements		Contracted	Positions	ractizal Operati	ons	Travel	Grand
Position Title	FTEs	Salary	Benefits	Item	Cost	Positions	Salary	Item	Cost	Cost	Total
milding Const & Facilities Maint Division	2	16,656	9,885	Refrigeration Contractual Services	3,000			2.000			29.541
	1	17,635	10,168	Sewage Pumping & Related Contractual Svcs.	3,000			100000000000000000000000000000000000000			30,803
	5	79,200	48,244	Printing Services (Work Orders)	800			100000000000000000000000000000000000000			128,244
	3	64,167	33,759	Annual Physical Examination	3,000	name.					100,926
	2	39,948	21,692	Office Equipment Repairs	1,000						62,646
	2	39,948	21,692	Rodent Control Contractual Services	7,500				-		69,146
	1	21,389	11,253	Termite Treatment/Pest Control	10,000						42,642
rese il la	2	37,446	20,964	Fabrication of Keys	550			Second Second			58,960
	1	21,389	11,253	Hand Radios Contractual Services	6,000			244			38,642
and the second s	1	21,389	11,253	Xerox Contractual Services	8,000			70000			40,642
	2	39,948	21,688	Carpentry Operational Supplies & Materials	110,000						171,636
				Electrical Operational Supplies & Materials	20,000						20,000
				Refrigeration Operations, Supplies & Materials	23,000						23,000
				Plumbing Operational Supplies & Materials	23,000			411 (1000) SSS			23,000
A CONTRACTOR OF THE SECOND				Finishing Paint Operational Supplies & Material	15,000			المستنية المستنية			15,000
				Custodial Operational Supplies & Materials	5,000	and the second					5,000
				Office/Computer Operational Supplies & Mat'ls	5,000						5,000
				Safety Supplies & Materials	5,000	ST MAN ST					5,000
TOTAL CONTRACTOR OF THE SECOND	a a			Auto Parts & Tires	6,420						6,420
	8			Building Inventory	200,000			A STATE OF THE PARTY OF THE PAR			200,000
				Carpentry Operational Tools & Equipment	10,000	- Pro- Pri					10,000
				Electrical Operational Tools & Equipment	10,000	i eee		September 1			10,000
			2	Refrigeration Operational Tools & Equipment	10,000						10,000
	3			Plumbing Operational Tools & Equipment	10,000	Section and the second		120 (120 (120 (120 (120 (120 (120 (120 (10,000
				Finishing/Paint Operational Tools & Equipment	5,000						5,000
				Custodiai Operational Tools & Equipment	5,000						5,00
			-	Office Operation Tools & Equipment	10,000						10,000
				Drug Testing	751			Straik S			751
				Telecommunication (Phone System)	9,280			855 (M2014)			9,280
				Carpentry Capital Equipment	50,000						50,000
				Electrical Capital Equipment	30,000						30,000
				Refrigeration Capital Equipment	50,000			\$3122233388			\$0,000
				Plumbing Capital Equipment	50,000					T	50,000
5260080000000000000000000000000000000000				Custodial Capital Equipment	20,000						20,000
				Hazardous Priority Improvement Projects	0	42.					
Highways Division	2	45,884	22,885	20-loonnect air time	10,272			\$350 COOLOGS (\$10)			79,043
	2	35,270		20-Iconnect Maint	10,000					1	65,206
	2	53,040	24,873	Office Equip Maint	10,000						87,913
	4	74.892		Vehicle Maint & Repair	50,000	300002222033				1	165,973

FEB-14-2010 Summary (Overall) 5 of 45 Markner TA Tyclingco Markner TA Tyclingco MLTARY DUDGET

Bureau of Budget and Management Research Civilian/Military Task Force Budget SBMR FORM CMTF-1

Department/Agency: DEPARTMENT OF PUBLIC WORKS

CNIT'S Subcommittee:

Program/Founcion: INFRASTRUCTURE, UTILITIES and TRANSPORTATION

Potential Federal Funding Source: SUMMARY

Personne	el			Operational Requirements		Contracted	Positions	ractual Operation	ons	Travel	Grand
Position Title	PTEs	Salary	Benefits	Item	Cost	Positions	Salary	ftem	Cost	Cost	Total
	6	128,334	66,066	Equipment Rentals	200,000			THE SECTION OF SECTION		1	394,400
	10	176,350	99,681	Office Supplies	10,000			St.			286,031
				Safety Supplies	50,000					1	50,000
				Uniforms	10,000			and the same			10,000
allingi, to topic				Computers (12)	23,988						23,988
				Laser Printer (4)	19,996			Harris III			19,996
				Drug Testing	930			MARIA MARIE STORY			930
	3 1			DS Dozer w/ripper (2)	1,700,000	all armer dead		and the second			1,700,000
		_		Dump Trucks, 14cy (8)	1,600,000			H-64			1,600,000
Capital Improvement Projects Division	1	26.520	12,736	Advertisement	2,000					128,050	169,306
A III de la Companya	4	91,768	46,306	Airtime Charges	5,000						143,574
	2	45,884	23,403	Computer Programming / Maintenance	20,000						89,287
	4	106,000	50,944	Computer Repair / Services	3,000						160,024
	2	39,948	21,687	Fax Machines Repair / Service	5,000						66,635
	1	22,942	11,702	I-Connect Radio Lease / Repair / Service	10,500			012124441111111			45,144
	8	229,424	106,878	Maintenance of Air Conditioning Units	1,000	6 H444		10014444000			337,302
	8	248,512	112,397	Maintenance of Vehicles	10,000	alemia (41000			370,909
	1	36,850	15,722	Map/Documents Reproduction Services	3,000			338 HAHA 337			55,572
	1	28,678	13,360	Membership Fees	2,000						44,038
	1	31,064		Office Equipment Mointenance / Repoir	12,000						57,114
	2	39,948	21,687	Postage Services	500						62.135
and the second			-	Printer Repair / Services	1,000						1,000
				Printing Sevices	7,500						7,500
2444				Equipment Parts	10,000			2000			10,000
				Puel and Lubricant	8,000						8,000
				Office Materials and Supplies	20,031						20,031
				Operational Supplies	16,000			Same III			16,000
				Refilable 5 Gallon Bottle Water	5,160			St. Comment			5,160
				Safety Gears and Devices	7,000						7,000
				Safety Shoes	2,000					2.02	2,000
				Tires	2,000						2,000
				Vehicle and Equipment Parts	5,000	200					5,000
				Building Code Books	20,000	Pasa.					20,000
				Color Ink Jet Printer	10,000			Section 1			10,000
				Color Inic Laser Jet Printer	3,600	District		September			3,600
				Computers	39,197	a decire		2000000			39,197
				Piling Cabinets	3,000	provide (TO THE REAL PROPERTY.			3,000
				Lap Top Computer	4,000	L. Sier Ct.					4,000
				Laserlet Printer (Networking)	4,000			Section 1			4.000

Bureau of Budget and Management Research Chilian/Military Task Force Budget BBMR FORM CMTF-1

Department/Ageacy: CMTF Subcommittee: Program/Function: Potential Federal Funding Source:

DEPARTMENT OF PUBLIC WORKS

INFRASTRUCTURE, UTILITIES and TRANSPORTATION

Personne	4			Operational Requirements		Contracted	Positions	ractual Operat	ons	Travel	Grand
Position Title	FTEs	Salary	Benefits	ltem.	Cost	Pesitions	Salary	Item	Cost	Cost	Total
300 marks				4DR Sedan	18,000						18,00
and the same same said the				Equipment Parts over \$5,000	5,000			SS SON WARREST			5,00
				Office Equipment Parts over \$5,000	15,000						15,00
				Pickup Truck	108,000						108,00
				Purchase of Office Equipment over \$5,000	10,000						10,00
				Purchase of Vehicles	125,000						125,00
				SUV Vehicle	104,000			100			104,00
				Vehicle Parts over \$5,000	10,000						10,00
TOTAL	179	3,974,705	2,050,678	-1-1	29,255,506			o	0	128,050	35,408,93

FEB-14-2010 Summary (Overall) 7 of 43

Mariene TA Tydingco MILITARY BUDGET Bureau of Budget and Management Research Civilian/Military Task Force Budget BBMR FORM CNTF-1

Department/Agency: DEPARTMENT OF PUBLIC WORKS

CMTF Subcommittee: Program/Puschour: INFRASTRUCTURE, UTILITIES and TRANSPORTATION

Potential Federal

MILITARY BUILDUP

Administration Division

		Pe	erson	nel	_		Operational Requires	ments		Contracte	d Pos	itions	Contrac	tual Ope	rations		Travel	Gran	nd Total
No.	Position Tide	FTEs		Salary		Benefits	Item		Cost	Positions		Cost	Item		Cost		Cost	All	Costs
	Administrative Aide	2		35,270		20,335		-			\$			5	-	S	-	S	55,60
	Administrative Assista	1	\$	19,974		10,844												S	30,81
	Clerk iII	1	\$	16,656		9,885		L.										S	26,54
	GUARD	24	5	639,283	S	306,482							1					S	945,76
5	Guard Supervisor	3	S	84,607	S	39,668		_			1							\$	124,27
					L		I-Connect air-time services (16)	\$	8,218									\$	8,21
							I-Connect Maint (16)	\$	10,000									\$	10,00
					_		ID Supplies (1 lot)	\$	20,000						_			\$	20,00
							Safety Supplies/Matl (1 lot)	\$	25,000		L.,							S	25,00
							Uniform (62 set - guards))	\$	5,000									S	5,00
							Computers (6)	\$	11,994									\$	11,99
							Digital Camera (5)	5	1,250		-							S	1,25
							ID Machine (1)	\$	6,000		1					1		\$	6,00
					1		I-Connect Radios (16)	\$	640									5	- 64
							Street Lights	\$	10,000,000							L		\$ 10	,000,00
_							Drug Testing	5	1,108					1				\$	1,10
							3-SUV (compact size)	\$	48,900		1							\$	48,00
							3-SUV (mid-size)	\$	75,000		Т			1		$\overline{}$		ŝ	75,00
							1-Pickup Truck	5	14,999		1			1				5	14,99
							1-Cargo Van	\$	27,000		Τ.			1				S	27,00
			1				1 Lot - Surveillance Cameras	\$	55,000		1							5	55,00
	and the second second second													1		-		1	
		-												_		-			
					_						1		t	-		_		1	
					-			1			1		1			_		1	
					-			_			+-			_		_		1	-
					_			_			1			_				1-	
	<u> </u>				-			_						_		-		1	
								1			1			_		-		 	
								1			-		1	-		-		_	-
_		_	-					-			$^{-}$			-		t			
		\vdash			-			-			+			+	_	-		i -	
	 		-		-			-			+			+-		-		s	
_	Total	31	5	795,790	Ś	387,214		6	10,309,209		15			ŝ		ŝ		5 11	400 :11

mis 8 MILITARY BUDGET

Bureau of Budget and Menagement Research Civilian/Military Task Force Budget

BBMR FORM OMTF-1

Department/Agency: CMTF Subcommittee: ProgramFunction: Potential Federal Funding Source: DEPARTMENT OF PUBLIC WORKS

P	araon					Operational Requirements	8		Contracte	d Positions	Contractua	(Operations	Travel	G	Frand Total
Position Title	FTE		ialary	,	Benefits	item	Г	Cost	Positions	Cost	item	Cost	Cost	Τ	All Costs
Administrative Aide	2	\$	36,270	\$	20,335						1			s	65,006
Administrative Officer	1	\$	26,520	\$	12,736									15	39,256
Secretary I (Typist)	1	\$	18,723		10,482									15	29,205
Assist SBO Superintendent	1	S	26,520	\$	12,738									\$	39,25€
Auto Mechanic II	5	\$	108,945	\$	56,264									\$	163,209
Auto Mechanic Supervisor	- 1	\$	26,520	\$	12,736		_							\$	39,256
School Bus Driver	30		529,050	\$	305,023									\$	834,073
School Bus Driver Supervisor	2	\$	42,778	\$	22,505									\$	65,283
						First Aid/CPR Certification Training(30)	\$	600						\$	600
		1				Rebuild of Starter (School Buses)(50)	\$	12,500						S	12,500
		1				Rebuild of Alternator (School Buses)(82)	\$	36,900						S	38,900
						Parts and Materials for School Buses	S	755,000						S	755,000
						Office Supplies and Materials	S	25,000						S	25,000
						Parts and Materials for Light Official Vehicle	S	20,000			1			S	20,000
						School Buses (53)	S	7,420,000						S	7,420,000
						Substation for Agut (Fence & Paving)	S	190,000						S	190,000
						Bus Shelters (aluminum) (197)	S	3,447,500			-			Š	3,447,500
		-	_	-		(44.7)	Ť		-		1 			18	0,111,000
				-		FUEL COSY	S	800,000			1			18	800,000
		-		_			Ť	000,000			-			10	
	-	1												18	
				_							1			18	
														15	
				_										İŝ	
	_	1					_							S	
Total	43	3	812,326	S	452,817		ŝ	12,707,500		s -		5 -	s -	16	13,972,643

MILITARY BUDGET P2

P2 Bus Operations 9

Bureau of Budget and Management Research Chillan/Military Task Force Budget BBMR FORM CMTF-1

		8	-	C !	D		F	G	н	1	1	К	1 L	_
1	Department/Agency:					ENT OF PUBLIC WORKS		-						-
2	CMTF Subcommittee:	_	_		5677								-	_
3			_	DJFRA	STRUCTURE.	UTILITIES and TRANSPORTATION							-	
	Potential Federal Funding Source:	_				LITARY BUILDUP		Transportati	on Maint D	vision			1	_
5		-	1										_	
6		ersonne	d			Operational Requirements		Contracted	Positions	Contractu	ol Operations	Travel	Grand To	late
7	Position Title	FTEs		Salary	Banefits	hem	Cost	Positions	Cost	literra	Cost	Cost	All Cost	15
8	Administrative Aide	2	\$	35,270	\$ 20,335								\$ 55,	605
9	Administrative Officer	1	S	20,520	\$ 12,736									256
10	Assistant Superintendent	1	5	33,311							$\overline{}$			655
	Automotive Mechanic I	3	\$	59,922	\$ 32,532								\$ 92,	454
	Automotive Mechanic II	7	\$	149,723									\$ 228,	
13	Automotive Mechanic Supervisor	1	\$	26,520									\$ 39,	256
14	Clerk Secretary Typist	1		19,974									\$ 30.	818
	Equipment Operator 11	1		18,723										205
	Heavy Equipment Mechanic II	5		106,945										210
17	Transportation Supervisor	1	\$	28,678	\$ 13,380				_					986
18		1				Contractural repair for vehicles & equipment	\$ 100,000						\$ 100,	000
19		\neg				I-Connect Air Time	\$ 7,000						\$ 7	000
20		-				Waste oil/hazardous material disposal	\$ 5,000				T		\$ 5,	,000
21		\top				Fleet Management Software	\$ 75,000						\$ 75.	000
22						Parts and Materials for Light Vehicles	\$ 50,000				-		5 50.	
23						Parts and Materials for Heavy Equipment	\$ 80,000		-		1		\$ 80,	.000
24		-				Batteries for vehicles/equipment	\$ 10,000						\$ 10.	.000
25			1			Fuel	\$ 20,000							000
26		-	1			Misc, Shop Tools	\$ 30,000						\$ 30.	.000
27			,			Misc. Office Supplies	\$ 4,000						\$ 4,	,000
1 28			1			Drug Testing	\$ 822							822
29		"				Fuel Service Truck	\$ 300,000						\$ 300	.000
30			1			Fuel Tanker Truck	\$ 500,000						\$ 500,	,000
31													\$	
35			L											
33	Total	23	\$	606,086		_	\$ 1,181,822	_	\$ -		\$.	3 -	\$ 1,950.	813
34			\$		768,991		1							_
35			1				\$ 1,950,813							

P3 Transportation Maint 10 MILITARY BUDGET P3

Bureau of Budget and Management Research Cirdian/Military Task Force Budget

d Management Research BBMR FORM CMTF-1

Department of Public Works
CMT Subcomfilter
Program-Fundion:

INFRASTRUCTURIL UTILITIES and TRANSPORTATION

RUCTURIL UTILITIES and TRANSPORTATION

	Penson				Operational Requirements				1 Positions	Contractual	Operations	Trav	rel lev	Grand Total
Position Title	FTEs	Salary	LS4	enerits	tem	\neg	Cost	Fositions	Cost	Item	Cost	Co	st.	All Costs
Administrative Officer	1	\$ 26,5	20 5	12,736		\neg							\neg	\$ 39,255
Suiking Inspector II	4	\$ 91.70	35 3	46,826		$\overline{}$							-	\$ 138,574
Construction Inspector II	2	\$ 45.8	34 \$	23.403		-								5 69,287
Construction Inspector III		\$ 106.0		50.944		_								\$ 157,024
ustomer Service Representative	2	\$ 39.9	5 S	21,687										\$ 61,630
Sustamer Service Supervisor		3 22.9		11.702		_					_			\$ 34,544
Engineer II		\$ 229.4		106.878		_								\$ 336,302
Indinger (III	8	\$ 248.5	2 3	112,397		_							_	\$ 360,906
nointer Supervisor			50 S	15.722		-				_			$\overline{}$	\$ 52,577
Planner III	1	\$ 28.6	28 8	13,350							-	-	-	5 42.03
Planese IV	1	\$ 31.0	34 5	14,050										\$ 45.116
Word Processing Secretary II	2	\$ 39.9	10 5	21,687		-							_	\$ 61,635
					Advertisement	3	2,000	-			-		_	\$ 2,000
			-		Airtime Charpes	3	5,000					-		\$ 5,000
					Computer Programming / Maintenance	\$	20.000					-	_	\$ 20,000
	_				Computer Repair / Services	Is	3,000			1			_	\$ 3,000
					Fax Machines Repair / Service	10	5,000			_			\rightarrow	\$ 5,000
	_				I-Connect Radio Leage / Repair / Service	18	10.500	_		-		1	-	\$ 10,500
	-				Maintenance of Air Conditioning Units	13	1.000					-		\$ 1,000
					Maintenance of Vehicles	18	19,000					-	$\overline{}$	\$ 10,000
			_	_	Map/Documents Reproduction Services	15	3,900					_	-	\$ 3,000
	-		$\overline{}$		Membership Fees	s	2,000				-	_	-	\$ 2,000
			_		Office Equipment Maintenance / Repair	3	12,000		_			_		S 12.000
			-		Postage Services	15	500	-			-			\$ 500
	-				Printer Repair / Services	8	1.000		_					\$ 1,000
			-		Printing Sevices	3	7,500						-	s 7.500
			_		Equipment Parts	\$	10,000							\$ 10,000
	-		_		Fuel and Lubricard	3	8,000		_					\$ 8,000
			_		Office Materials and Supplies	\$	20.031		_		_		-	\$ 20.03
	-		_		Operational Supplies	3	16,000				_		\rightarrow	\$ 16,000
	-		-	_	Reflable 5 Gellon Bottle Water	3	5,160		_					S 5.160
	-		_		Saluty Gears and Devices	5	7.000		_		_		-	\$ 7,000
	-		-	_	Safety Shoes	3	2,000		_					
	-		_		Tires	3	2,000						\rightarrow	\$ 2,000 \$ 2,000
	-		+		Vehicle and Equipment Parts	5	5,000			-		-	_	
	-		_	_	Building Code Books	S	20,000						_	\$ 5,000
	-		-	_	Cotor Ink Jet Printer	- 3	10,000				_		-	\$ 20,000 \$ 10,000
	-		-	_	Color Ink Leagr Jet Printer	5	3,600		-				-	
	-		$\overline{}$	_	Computers	S	39,197					_		\$ 3,60
	\vdash		_	_	Filing Cabinets	\$	3,000			_		_		\$ 39,190 \$ 3,000
	-						4,900					-		
	-		-		Lay Top Computer	5	4,000	-			-	_		\$ 4,000
			-		LaserJet Printer (Networking) 4DR Sedan	5				_		_		\$ 4,000
	-						18,000				_	-		\$ 18,000
	-		-		Equipment Parts over \$5,000	5	5,000						\rightarrow	\$ 5,000
	-		_		Office Equipment Parts over \$5,000	\$	15,000							\$ 15,000
	-		-		Pickup Truck	\$	108,900	-		—	_	_	_	\$ 108,000
	-		_		Purchase of Office Equipment over \$5,000	\$	10,000							\$ 10,000
	-		_		Purchase of Vehicles	3	125,000				-	-		\$ 125,000
	_		_		SUV Vehicle	_18	104,000							\$ 104,00
					Vehicle Parts over \$5,000	\$	10,000							\$ 10,000
			_			_	_					5	128,050	\$ 128,050
Total	35	\$ 947,6	sa s	451,371		5	636,488		s .		s .	5	128,050	\$ 2,163,527

P4 Capital Improvement Projects 11

Buresu of Budget and Management Research Civilian/Military Task Force Budget SBMR FORM CMTF-1

	A	8	C	D	E	1	F	G	Н .		1	K	
4	Department/Agency:				OF PUBLIC WORKS	_		9			-		-
2	CMTF Subcommittee:	_		DEP PROTESTED	U FOREIC HOTOIO	-		******		-	1		-
	Program/Function:	_	MERA	STRUCTURE UT	LITIES and TRANSPORTATION	-	71017			-	1		-
-	Potential Federal Funding	-	341104	STRUCTURE, OT	DITED BID THOUGH CICIATION	-	_			-			
	Source:			SAU PER	RY BUILDUP			Bulldles Co.	net 9 Contille	ies Maint Div	Inter		
5		-		muit	KT DOLLOGF	-		bouding co	rior or L'action	SEC SHOWLT FAX	1BROWN		
8		- Ann	ionnel		Constituted Services				. Directions	Contract	10	T	Grand Total
무	Position Title	FIES	Salary	Benofts	Operational Requirements Item		Cost	Positions	Positions Cost	Contractus	Operations 1 Cost	Travel	All Costs
	Clark III		\$ 16,656		10914	-	COM	Publication	Com	1.011	CORC	CHS	
흥	Secretary I (Typist)			\$ 9,885		-					-		\$ 26,54
9	Mointenance Custodian		\$ 17,835 \$ 79,200			-							\$ 27,80
	Carpenter II		\$ 64.167			-				_			\$ 127,44
	Carpenter t		\$ 39,948			-	_				-		\$ 97,90
12	Electrician I		\$ 39,948			-		_			_		\$ 61,84
	Painter Leader		\$ 21,389			+							\$ 61,64
	Painter II		\$ 37,446			+					_		\$ 32,54
	Plumber II		\$ 21,389			+				-			\$ 58,41
	Refrigeration Mechanic if		\$ 21,389			+		_		_			\$ 32,64
	Refrigeration Mechanic I		\$ 39,948			+-		_		_	_		\$ 32,64
19	Configuration watersupp i		9 39,946	e 21,066	Refrigeration Contractual Services	-	3,000	_		-	-		\$ 61,63 \$ 3,00
20		-			Sewage Pumping & Related Contractual Syes.	10	3,000			⊢	_		
23		-			Printing Services (Work Orders)	+:-	800						\$ 3,00
21		-		_	Annual Physical Exemination	1 2	3,000	_		-			\$ 80
23					Office Equipment Repoirs	10					-		\$ 3,00
23		-			Rodget Coursel Connectual Services	5	7,500						\$ 1,00
24 25		- 1			Termite Treatment/Test Control	10	10.000		_				\$ 7,50
26		-			Fabrication of Keys	13							\$ 10,00
27		-				1.3	6,000						\$ 55
25		\vdash		_	Hand Radios Contractual Services Xerex Contractual Services	8	5,000						\$ 6,00
		-											\$ 8,00
29 30		-			Carpentry Operational Supplies & Materia's	\$	110,000				_		\$ 110,00
		\vdash			Electrical Operational Supplies & Materials	18	20,000				-		\$ 20,00
31 32		-			Refrigeration Operational Supplies & Materials Plansbing Operational Supplies & Materials	\$	23,000				-		\$ 23,00
33		-			Phinburg Operational Supplies & Materials	\$	15,000						\$ 23,00
		-		_	Finishing Paint Operational Supplies & Materials	1					-		\$ 15,00
34 35		-			Custodial Operational Supplies & Materials	3	5,000				-		\$ 5,00
36		-			Office/Computer Operational Supplies & Maris		5,000				-		\$ 5,00
37	<u> </u>				Sofety Supplies & Materials	13					-		\$ 5,00
		-			Auto Ports & Tires	- 3	8,420			_	-		\$ 6,42
35					Building Inventory	10	200,000				-		\$ 200,00
40 40		- 1			Carpentry Operational Yooks & Equipment	12					-		\$ 10,00
41		-			Electrical Operational Teols & Equipment Refrigoration Operational Teols & Equipment	5	10,000				_		\$ 10,00
42					Plumbine Operational Tools & Equipment Plumbine Operational Tools & Equipment	5	10,000	-			-		\$ 10,00
43		-			Plenting Operational Tools & Equipment Finishing Paint Operational Tools & Feylescent	3	5,000				-		
44		-			Custedial Operational Tools & Equipment		5,000		-		-		\$ 5,00
45					Office Operation York & Equipment	5	10,000				-		\$ 5,00
45		\vdash			Office Operation Tools & Equipment Date Testing		751				_		
47		-			Telecommunication (Phone System)	8	9.280		_		-		\$ 75
		-								-	_		5 9,28
45		-			Carpentry Capital Equipment	\$	50,000						\$ 50,00
49					Electrical Capital Equipment	\$	30,000						\$ 30,60
50					Refrigeration Capital Equipment	s	50,000						\$ 50,00
61					Plumbing Carrital Equipment	8	50.000						\$ 50,00
52		\vdash											
		\vdash			Custodial Capital Equipment	8	20,050				-		\$ 20,00
53	L				Hazardous Priority Improvement Projects	\$							3 -
	Total	21	\$ 399,115	\$ 221,849		\$	725,301		\$ -	_	\$ -	\$.	\$ 1,346,26
50				/									

PS Building Const Facilities Maint 12

MILITARY BUDGET PS Bureau of Budget and Management Research Civilian/Military Task Force Budget

BBMR FORM CMTF-1

Department/Agency: CMTF Subcommittee: Program/Function: Potential Federal Funding Source: DEPARTMENT OF PUBLIC WORKS

		SOFY		_		Operational Red	uirem	ents	Contracte	d Positions	Contractus	il Ope	erations	Tr	avei	1	Grand Total
Position Title	FIES		Salary		Benefits	Item	1	Cost	Positions	Cost	Item		Cost	7	ost	1-	All Costs
Administrative Assistant	2	\$	45,884		22,885		\$			\$ -		S		\$		\$	68,769
Administrative Aide	2	\$	35,270	\$	19,936		Т					T				S	55.208
Engineer I	2	\$	53,040		24,873							1				\$	77,913
Land Agent I	4	\$	74,892	\$	41,081							T				\$	115,973
Construction Inspector I	6	\$	128,334	\$	66,068		T^{-}					1		-		s	194,400
Equipment Operator i	10	\$	176,350	\$	99,681							1				\$	276,031
	1					20-loonnect air time	\$	10,272							_	s	10,272
						20-Iconnect Maint	\$	10,000				T				5	10,000
						Office Equip Maint	\$	10,000								\$	10.000
				Г		Vehicle Maint & Repair	\$	50,000				T				s	50,000
						Equipment Rentals	\$	200,000				\vdash				s	200,000
	\neg			Г		Office Supplies	\$	10,000							-	s	10.000
						Safety Supplies	\$	50,000				_				S	50,000
			12.000.000			Uniforms	\$	10,000				1		_		S	10,000
				Г		Computers (12)	\$	23,988								s	23,988
						Laser Printer (4)	\$	19,996				1		$\overline{}$		s	19,996
	-			г		Drug Testing	\$	930				-				S	930
				г		D8 Dozer w/ripper (2)	8	1,700,000								s	1,700,000
	-	_		г		Dump Trucks, 14cy (8)	8	1,600,000		1		1				s	1,600,000
							+-					1				5	.,000,000
				г			1					-				s	
				$\overline{}$			-		_			1		_	_	š	
	-						_				T	1			_	ś	
				г								1				ŝ	
		-					$\overline{}$					+		-	_	š	
Total	26	S	513,770	ŝ	274,522		2	3,695,186		š -		5	-	s	_	ŝ	4,483,477

P6 Highways 13

MILITARY BUDGET

Government of Guam
DEPARTMENT OF PUBLIC WORKS
Fiscal Year 2011 Military Buildup
Division Budget Digest
[PROPOSED]

Function:

Infrastructure, Utilities and Transportation Department of Public Works

Department/Agency: Program: Fund:

ADMINISTRATION DIVISION

		A	В	С	D	Е	F
			В		Governor's		F
AS400		FY 2010	FY 2010	FY 2011	FY 2011	FY 2011	FY 2011
Account	Appropriation Classification	Expenditures &	Authorized	General	Federal Match	Other	Total Reg.
Code		Encumbrances	Level	Fund	Fund(s)	Fund 1/	(C+D+E)
Code			Detti	Fund	runu(s)	Fund 1/	(CTDTE)
	PERSONNEL SERVICES	1			,,		
111	Regular Salaries/Increments	\$0			SO	\$705,609	\$705,60
112	Overtime/Special Pay	0	0	0	***************************************	90,182	90,18
113	Benefits	0	0	0		387,214	387,21
	TOTAL PERSONNEL SERVICES	50	\$0	50	\$0	\$1,183,004	\$1,183,00
	OPERATIONS	1					
220	TRAVEL-06-Miland Local Militago Releabura.	50	\$0	S0	50	50	
230	CONTRACTUAL SERVICES:	0	0	0	0	18,218	18,21
	I						
233	OFFICE SPACE RENTAL:	0	0	. 0	0	0	~~~
240	SUPPLIES & MATERIALS:	0	0	0	0	50,000	50,000
250	EQUIPMENT:	0	0	θ.	0	19,884	19,88
270	WORKERS COMPENSATION:	0	0	0	0	0	
271	DRUG TESTING:	9	. 0	0	0	1,108	1,10
280	SUB-RECIPIENT/SUBGRANT:	0	0	0	0	0	
290	MISCELLANEOUS:	0	0	0	0		
230	MISCELLANEOUS:		03		- 0	10,000,000	10,000,00
	TOTAL OPERATIONS	50	\$0	\$0	S0	\$10,089,210	\$10,089,21
	UTILITIES	1					
361	Power	50	SO	SO	50	so	S
362	Water/ Sewer	0	0	0	0	0	
363	Telephone/ Toll	0	0	0	0	0	
	TOTAL UTILITIES	. 50	50	50	\$0	\$0	S
450	CAPITAL OUTLAY	02	S0	50	50	\$219,999	\$219,99
1	TOTAL APPROPRIATIONS	So	so	So!	50	\$11,492,213	\$11,492,213
	1/ Specify Fund Source	1	***		30]	311,472,213 1	311,472,213
[FULL TIME EQUIVALENCIES (FTEs)						
	UNCLASSIFIED	0	0	0	0	0	
ļ	CLASSIFIED	0	0	- 0	0	31	31
- 1	TOTAL FTES	0	0	0	0	31	31

J:\DEIS REPORT\MILITARY BUDGET P1-Adm digest

FEB-14-2010

Admin 14

ADMINISTRATION DIVISION FISCAL YEAR 2011 MILITARY BUILDUP

FY2011 MILITARY BUILDUP

Schedule B- Contractual

BBMR96A

ADMINISTRATION DIVISION	Quantity	Unit	Total	Funded in FY 2010?		
Item	Quantity	Price	Price	Yes	No	
I-connect Radio Air-Time Services	16	42.80	8,218	1		
I-connect Radio Maintenance	16		10,000		X	
	Total	Contractual	18,218			

Schedule C - Supplies & Materials

1		Un	it	Total	Funded in	FY 2010?
ltem	Quantity	Pric	ce	Price	Yes	No
ID Materials and Supplies		20	0,000	20,000		
Safety Supplies/Materials (vests, shoes, etc.)				25,000		
Uniforms (Pants/Shirts)	62	\$	18	5,000		
	Total Supplies	& Mater	riale	50,000		***********

Schedule D - Equipment

		Unit	Total	Funded in	FY 2010?
ltem	Quantity	Price	Price	Yes	No
Desktop Computers	6	1999	\$ 11,994		
Digital Camera	5	250	\$ 1,250		
D Machine	1	6000	\$ 6,000		
-Connect Radios	16	40	\$ 640		
	Tota	Equipment	\$ 19.884		

Schedule E - Miscellaneous

		Unit	T	Total	Funded in	FY 2010?
Item	Quantity	Price		Price		
Streetlights *			\$	10,000,000		
	Total Mi	scellaneous	\$	10,000,000		

^{*} Guess estimated cost depending on fuel cost.

Schedule F - Capital Outlay

		Unit	Total	Funded in	FY 2010?
Item	Quantity	Price	Price	Yes	No
Vehicles (SUV/Small size)	3	16,000	48,000		***************************************
Vehicles (SUV/Medium size)	3	25,000	75,000		
Pickup Truck	1	14,999	14,999		
Cargo Van	1	27,000	27,000		
Surveillance Cameras (lot)	1	55,000	55,000		
	Total Cap	oital Outlay	\$ 219,999		

J:\DEIS REPORT\MILITARY BUDGET Adm Capital

FEB-14-2010

Government of Onno
Finish variety 2011
NCTIONAL AREA: Indistripators. Velikio and Transportation
Assets States
(2008)

FUNCTIONAL AREA: DI	Exstructure, Unitwice and Transportation
DEPARTMENT/AGENCY	Public Works

PROGRAM	1009 Administration

				Input by Dopo	toxx					ı						(Mput, By E)	SPATICALL.	I	
	(A)	(3)	(C)	(0)	(E)	(F)	(G)	(11)	(1)	(2)	(K)	(1)	(M)	(N)	(0)	(P)	(Q)	(R)	(5)
	Position	Podties	Name of	Girado)			000 2004 000	Serve	Mar	(E+F+G+I)	Retinaged	Relie (DDD)	Special Specials		Life	Medical	Deutst	Total Bereilla	(1-2)
Nn.	Numbe	786	Important	516	Salery	Oversine	djecal ⁴	Dag	Ant	Subtotal	(3*27.40%)	(\$16.66*2579)	(6,2% * 1)	(1.45% * I)	(1/1	(Premisa)	(firenium)	(Kithro Q)	TOTAL
_	ADMIN	INTRATIVE SPREVICES		-															
1		Administrative Aide	VACANT	F-01	17,635	- 6	\$0		- 5	17.685	4,543	433		754	174	4,006	386	15,168	27.
÷		Administrative Aide	VACANT	F-01	17.655		\$11		0	17,655	4,543	413			174	4,036	344	30,168	27.
200	954A	Administrative Aide	SEW-Tend	F1 14 17 1	35,270	0		PHONE SERVICE		35,270	9,615	566		511	348	1.(5)	772	26,335	56,
1		Administrative Architect	VACANY	1140	19.974		50	******		19.974	5,485	431		210	174	4,5%	286	92,644	36.
253	Add	collabstrative Audatust	SLB-Total:	BT 500 25	19,974	. 0	0	COLUMN TO SERVICE		19,974	5,455	433		250	174	4,506	C - 388	10,544	70
1		Cwt 78	VACANT	M-3	16.666		50		. 0	16.456	4,574	433	D	242	174	4,006	315	9,91	26.
12	114.1	Clerk III	SUB-Tetal:	1252.62	16,656	10.00		1492200		15,656	4,574	(3)		20	174	4,576	. 346	9,555	
_	SECURI	TY																	
7			VACANT	EL04-61	23,518	0	53,318		. 0	20,437	7,314	433	. 6	386	:76	4,076	386	12,770	39.
2		Quart	VACANT	IL04-61	23,318	0	53,318		0	26.437	7,314	433	D.	316	176	4,006	316	12,770	
5		Gued	VACANT	EL94-01	23,316	0	52,318		0	26.637	7,314	433	. 0	356	174	4,276	386	12,770	79
4		Cmani	VACANT	\$1.04.61	23,3;8	0	53,318		0	25,637	7,514	433	0	366	174	4,076	386	\$2,770	39
5		Knasl	VACANT	X1.04-01	21,376	0	\$1,315		9	26.637	7,314	413	0	386	174	4,276	166	12,770	10
6		Coard	VACANT	F1.04-61	27.318	0	217,12		9	20.637	7,314	433	D	386	174	4,076	386	12,770	39
2		Oaard	VACANT	FL04-61	23,516	- 0	\$3,816		0	26.657	7,314	433	D	310	174	4,076	316	12,770	30
J		Coard	VACANT	E1.04-01	23,318	0	53,318		0	26,637	7,514	433	0	386 386 388	174	4,176	116	12,770	39
,		Guard	VACANT	21.04-q1	29,318	0	53,37,8		- 5	25,437	7,314	433	0	386	174	4,276		12,770	25
10		Gued	VACANT	21.04-01	23,318	0	\$1,518			26,637	7,314	433	0	386	174	4,276	316	12,770	39
12		Cond	VACANT	21.04-01	23,318	0	\$1,318		0	25,637	7,514	433	0	356	174	4,276	316	12,779	23
12		Goard	VACANT	21.04-01	23,318		52,318		0	26,657	7,314	433 433	P	386	174	4,076	316	12.770	35
13		Coasi	VACANT	21.04-01	23,318	0	\$3,3;8			76,637	7,314	433	0	355	174	4,676	316	12,770	35
4	******	Cues	VACANT	21.04-01	21,318	0	\$3,518		9	26.637	7,314	433	0	355	174	4,276	386	12,770	25
15		Coard	VACANT	EL04-01	23,316	0	53,718		0	26,637	7,314		0		174	4,076	386	12,770	27
16		Greed	VACANT	EE04-01	21,318	0	83,318			26,637	7,316	433	0		174	4,076	386	12,770	38
		Cont	VACANT	F1.04.01	23,518	0	53,318		- 0	26,637	7,314	433	0	386	174	4,076	316	12,770	39
18		Coard	VACANY	34.04.01	29,618	0	53,518			26,637	7,814	433	0	366	174	4,076	316	12,770	31
19	-	Coard	VACANT	EL04-01	23,518	0	59,818		- 5	26,637	7,314	433	0		174	4,076	346	12,7,10	31
20		Cord	YACANT	EL04-01	25,318	0	23,718		- 0	26,657	7,314	433	0	316	174	4,076	356	12,770	38
21		Goord	YACANT	21.04-01	23,318		83,318			25,637	7,314	433	0	386	174	4,076	350	12,770	38
72		Coars	VACANT	F1.04-01	21,318	Ď	53,318		0	26,637	7,314	435	0	326	174	4,076	316	12,770	
73.			VACANT	51.04-01	23,318	0	51,318			26,637	7,314	433	0	316	174	4,076	386	17,770	31
24		Courd	YACANT	EL04-01	23,318	0	83,318			26,617	7,316	433	0	316	174	4,076	386	12,770	78
	Alteria	GUARDS	SUB-Tetals	265A9431	\$69,642	416.1	79,641	CONTRACTOR	40.00	639,283	. 175,547	10,392		57.79,270	4,179	97,631	9,266	-361,482	945
_	SECUL	Dr.			-			**********											
1			PACANE	F1.04-01	24,669	Đ	53,513		- 0	28,202	7,76€	433	0	469	124	4,076	316	13,223	4),
2			VACANT	#1.04-01	24,689	0	83,513			29,202	7,744	438	0	409		6,076	350	13,223	41,
3		Guará Supervirre	YACANT	F164-01	24,689	. 6	\$3,513			28,202	7,744	435	D	409	174	4,076	366	13,223	41.
3.5	· City	ARD SUPERVISORS	5UB-Total:	130 PET 1950	74,66T		16.546	STREET AND DE	. 0	84.607	23,233	1.190		1,227	111-1522	12,229	1.158		1 124

[3804K SP-1]

JYDEIS REPORTMUTARY BUDGET Adm SP

[RROMR SP-1]

JIDES REPORTMUTARY SUDDET Adm DP

PUNCTIONAL AREA: Substructure, Unities and Transportation. DEPARTMENTAGENCY: Public Works

PROGRAM: 1009 Administration

				lapst by Depa	ricent											Taged by D	opertment	1	
	(A)	(0)	(C)	(D)	(8)	(F)	(G)	(8)	(1)	(1)	(K)	(L)	(M)	(N)	(0)	(P)	(9)	(R)	(9
No.	Position Number	Position Title	Superal Securitors	Chaler Sen	Select	Oveltone	Seecos*	Dog	786	(E-P+G+I) Solenous	Retisement (J * 27,46%)	Retire (DDR) SE: 6,66°25PF	Social Security (6.2% * f)	Medicare (1.45% * 3)	Life (II)	Medical (Zonásu)	Destal (Presiden)	Total Benefits (K thru Q-)	(J+E) TOTAL
5.41	TOTAL PRINC	NNIE REQUEST	GRAND Test	1	1701,609	2.6	5 - 590,181 4	TO THE		1765,780	\$718,524	snau		\$11,530	35,594	8,126,335	\$11,414	3387,214	\$1,833,864

*Nigle Differential File andros : Worker's Compression of the Improve is \$7.24 per sensor, Religious to closing in PY 2011

19 FY 2010 (Factoris) Gov Orient contribution for Life Improves is \$7.24 per sensors, Religious to closing in PY 2011

		REA: Industration, Utilian and NGENCY: Public Works	Transportation					Fire Agency	ranical of G rai Year 39 y Staffing P records 820	11 attern						(BEMCR &	SD-1]
3006	NA: 100	C Administration															
	DE 111	- /- /- /- /- /- /- /- /- /- /- /- /- /-															
ND:										-							
				Input by Dogs	M*rocet					1					Input by Department	1	
	(A)	(8)	(C)	(D)	(8)	(F)	(6)	(8)	(1)	(1)	(X)	(b) (M)	(N)	(0)	(2) (9)	(R)	(5)
	33333			100000000000000000000000000000000000000	0.000 000 0			barne	666				Stratchty				
	Pestion		Name of	Clude:	100000000000000000000000000000000000000				*********	(DFGIL)		Raske (DDB) Social Social		Life	Medical Dental	Total Bearties	$(X + I_{\epsilon})$
No.	Nushi	(L. 194	Separteur	10.00	Stravy	Chemide	504616**	1 State	10.000	Submist	(3 * 27.46%)	RE1E/00,50bal (073# , 1)	(1.49% - J)	010	(Prenisc) (Prenisc)	(K See Q)	TOTAL
	_				Septed by Dispra							1					
	-				Special Pay City							1					
	EAS	(0)	(0)	1.01	665	673	(9)	(N)	(1)	(1)	(E)	I					
	_				· ·			D D	- M			-					
			1	Bolley	Nate Differential			Norm Studen	Norse	EMET	1	1					
	Parales		Numer	Fig	Fee	Burnet	Boned	Prv	Pry	Pror	(E-E-G-B-H-J	1					
No.	Name	Tale	terostres		19%	H216	P%	1.5	1.5	15%	Swittetuli	J					
_				_	1					-	_	4					
_	ADMIN	STEATIVE SERVICES Administrative Aide	VACANT	0		0					5 0	4					
⊱	2	Administrative Aide	VACANT	0													
_	-	MONTHUM PROPERTY.	SUB-THIN	+ - 3	0	0			- 6								
			553F7 BISC	+ ·					_	_	1 -	4					
1	0	Afferial resolve Assistant	VACANT	0	. 0		- 6	0	1	4	0	i i					
			VSTUB-Tielet	0				0									
]					
Ē.	6	Clock III	VACANT	0													
			SUB-Total:					0			9						
								_									
_	SECUR		VACANT	907	2.502					-	3,316	-					
<u></u>	-	Cused Cused	IVACANT	947	2,332				1 6								
3	0	Cased	VACANT	997	1,02	- 0			- 0								
,	0		VACANT	90		- 0		0	1 2		3,518						
5	0	Coned	VACANT	997		- 0			1 6		1318	i					
	8	Guard	:VACANT	967		0		0	- 6		3,318						
;	6	Cward	YACANT	967	2,592			0			3.315						
	0	Guard	VACANT	997		. 0					3,315						
匸	0	Cogel	PVACANT	987	2,332	0					3,318	1					
0	10	Cuard	VACANT	997		0					3,318						
	0	Guard	IVACANT	997	2,312	0											
	0	Cloand	VACANT			0		0		ļ ¹	3315	4					
	0	Guard	TVACANT	967					0		3,318						
5		Coxcd	VACANT	997		b			1 8		A318	-					
6	6	Good	VALANT	987	2,332	- 0			1 8			-					
7	ř	Good	IVACANT	997													
8	ž.	Conci	VACANT	997		- 0											
-	0	Coard	VACANT			0			1 6								
- N	ò	Coard	VACANT	987	2,332												
21		Coard	VACANT	997	2,832			0	- 6		3,316						
22	0	Guard	VACANT	917	3,392			0			3,518	1					
23	0	Court	VACANT	997		. 0		0			3,518						
4	0	Coard	VACANT	997	2,372			0									
AXE			SUB-Total:	23.677	35,964	- 6		0			79,641						

Georganical of Guana
f bent Year 2011
Agrany Staffing Fastern

[BBMR SP-4]

JICES REPORTING/TARY BUDGET Are SP

FUNCTIONAL AREA: Infratructure, Utilizer and Trinsportation DEPARTMENT/AGENCY: Public Works

PEOGRAM: 1003 Adelalizados

27 TOTAL PURSONNEL REQUEST (TRANSTank 26.51 66.51) 6 0

Applies to solid waste conployees

1 % of reg. rate of pay from 12nm Friday to 12 midelight Sunday

Applicable only to OFD autholitoxy service personnel. 19% of mg, note of pay

Guam and CNMI Military Relocation DEIS/OEIS

Government of Guam
DEPARTMENT OF PUBLIC WORKS
Fiscal Year 2011 Military Buildup
Division Budget Digest

Function: Infrastructure, Utilities and Transportation Department/Agency: Department of Public Works Program: Bus Operations Division

		A	В	С	D	E	F
	I				Governo	r's Request	
AS400		FY 2009	FY 2010	FY 2011	FY 2011	FY 2011	FY 2011
Account		Expenditures &	Authorized	General	Federal Match	Other	Total Reg.
Code	Appropriation Classification	Encumbrances	Level	Fund	Fund(s)	Fund 1/	(C+D+E)
	PERSONNEL SERVICES	٦					
111	Regular Salaries/Increments/Special Pay	\$0	\$0	\$0	\$0	812,326	812,3
112	Overtime	\$0	\$0	\$0	\$0		
113	Benefits	\$0	\$0	\$0	\$0	452,817	452,8
114	Medical / Dental / Life	\$0	\$0	\$0	\$0		
	TOTAL PERSONNEL SERVICES	\$0	\$0	\$0	\$0	1,265,143	1,265,14
	OPERATIONS	7					
220	TRAVEL- Off-Island/Local Mileage Reimburs.	\$0	\$0	\$0	\$0	-	
230	CONTRACTUAL SERVICES:	50	\$0	\$0	\$0	50,000	50,00
230	CONTRACTORE SERVICES:	30	30	30	30	50,000	50,00
233	OFFICE SPACE RENTAL:	\$0	\$0	\$0	\$0	-	
240	SUPPLIES & MATERIALS:	\$0	\$0	\$0	\$0	800,000	800,00
250	EQUIPMENT:	\$0	\$0	\$0	\$0	-	
270	WORKERS COMPENSATION	\$0	\$0	\$0	\$0	-	
274	DRUG TESTING	\$0	\$0	ŝo	\$0		
271	DRUG TESTING	\$0	\$0	50	50		
280	SUB-RECIPIENT/SUBGRANT:	\$0	\$0	\$0	\$0		
290	MISCELLANEOUS:	\$0	ŚD	\$0	50		
	TOTAL OPERATIONS	\$0	\$0	\$0	\$0	850,000	850,00
	UTILITIES	7					
361	Power .	\$0	\$0	\$0	\$0		
362	Water/ Sewer	\$0	\$0	\$0	\$0		
363	Telephone/ Toll	\$0	\$0	\$0	\$0	-	
	TOTAL UTILITIES	\$0	\$0	\$0	\$0		
450	CAPITAL OUTLAY	\$0	\$0	\$0	\$0	11,057,500	11,057,50
	TOTAL APPROPRIATIONS	\$0	\$0	\$0	\$0	13,172,643	13,172,64
	1/ Specify Fund Source	40)	40 1		30	13,172,043	15,172,04
	FULL TIME EQUIVALENCIES (FTEs)	٦					
	UNCLASSIFIED	0	0	0	0	-	
	CLASSIFIED	0	0	0	0	43	-4
	TOTAL FTEs	0	0	0	0	43	4

JADEIS REPORTMILITARY BUDGET P2-Bus digest

FEB-14-2010

Schedule B- Contractual

		Unit	-	Total	Funded in FY 2010	
Item	Quantity	Price		Price	Yes	No
First Aid/CPR Certification Training(30)	30	20	ŝ	600.00	XX	
Rebuild of Starter (School Buses)(50)	50	250	S	12,500.00	XX	
Rebuild of Alternator (School Buses)(82)	82	450	S	36,900.00	XX	
			S	-		
		-	\$	-		
Total Contractual			\$	50,000.00		

Schedule C - Supplies & Materials

		Unit	T^-	Total	Funded in FY 2010?		
Item	Quantity	Price	1	Price	Yes	No	
Parts and Materials for School Buses			S	755,000.00	XX		
Office Supplies and Materials			S	25,000.00	XX		
Parts and Materials for Light Official Vehicles			S	20,000.00	XX		
			S				
			S	-			
			S	-			
Total Supplies & Materials			S	800,000,00			

Schedule D - Equipment

		Unit		Total	Funded in FY 2010?		
Item	Quantity	Price		Price	Yes	No	
VA.			S	-			
			S	-			
			S	-			
			S				
			S	-			
			S	-			
l'otal Equipment			\$	-			

Schedule E - Miscellaneous

		Unit		otal	Funded in FY 20103		
Item	Quantity	Price	Price		Yes	No	
V/A			S				
			\$	- 1			
			S	- 1			
			\$	-			
			S	-			
			S	-			
Total Miscellaneous			S	-			

Schedule F - Capital Outlay

		Unit	T	Tetal	Funded in FY 2010?		
Item	Quantity	Price		Price	Yes	No	
School Buses (53)	53	140,000	S	7,420,000.00		XX	
Substation for Agat (Fence & Paving)	1	190,000	\$	190,000.00		XX	
Bus Shelters (aluminum) (197)	197	17,500	S	3,447,500.00		XX	
			\$	-			
			S				
			S				
Total Capital Outlay			S	11,057,500.00			

BUS 21

\$ 11,907,500

FEB-14-2010

J:\DEIS REPORT\MILITARY BUDGET
Bus Capital

|BBMR BD-1|

Government of Guam DEPARTMENT OF PUBLIC WORKS Fiscal Year 2011 Military Buildup Division Budget Digest

Function: Infrastructure, Utilities and Transportation Department/Agency: Department of Public Works Program: Bus Operations Fuel

		A	В	С	D	E	F
			1 1		Governor's		
AS400		FY 2009	FY 2010	FY 2011	FY 2011	FY 2011	FY 2011
Account		Expenditures &	Authorized	General	Federal Match	Other	Total Req.
Code	Apprepriation Classification	Encumbrances	Level	Fund	Fund(s)	Fund 1/	(C+D+E)
	PERSONNEL SERVICES						
111	Regular Salaries/Increments/Special Pay	\$B	\$0	\$0	\$0	\$0	St
112	Overtime	0	0	0	0	0	
113	Benefits	0	. 0	0	0	0	(
114	Insurance Benefits (Medical / Dental / Life)	0	0	0	0	0	0
	TOTAL PERSONNEL SERVICES	\$0	50	\$0	50	SO	SO
	OPERATIONS						
220	TRAVEL- Off-Island/Local Mileage Reimburs.	S0	SO	so	50	SO	SO
240	Trock tage On-island/Local Mucage Retailours.	30	30	- 30	30	30	30
230	CONTRACTUAL SERVICES:	0	0	0	8	0	0
			i i				
233	OFFICE SPACE RENTAL:	0	0	0	0		0
240	SUPPLIES & MATERIALS:			0	0	800,000	800,000
	I THE TAXABLE PROPERTY OF THE PARTY OF THE P			7		000,000	900,000
250	EQUIPMENT:	0	0	0	0	0	0
270	WORKERS COMPENSATION	0	0	0	0	0	0
200	botto attombio						
271	DRUG TESTING	0	0	0	0	0	0
280	SUB-RECIPIENT/SUBGRANT:	0	0	0	0	0	0
200	!	1					
290	MISCELLANEOUS:	0	0	0	0	0	0
	TOTAL OPERATIONS	50	\$0	SO	S0	\$800,000	\$800,000
	UTILITIES	-7					
361	Power	50	50	SO	50	\$0	50
362	Water/ Sewer	0	0	0	0	0	0
363	Telephone/ Toll	0	0	0	0	0	0
	TOTAL UTILITIES	50	SO	50	\$0	\$0	\$0
450	CAPITAL OUTLAY	S0	- Ilea	ra l			
450	CAPITAL OUTLAY	50	50	50	\$0	\$0	50
	TOTAL APPROPRIATIONS	\$0	SO	S0	SO	5800,000	\$890,000
	1/ Specify Fund Source			•			9
	FULL TIME EQUIVALENCIES (FTEs)	7					
	UNCLASSIFIED	0.00	0.00	0.06	0.00	0.00	0.00
	CLASSIFIED	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL FIES	0.00	0.00	0.00	0.00	0.00	0.00

J:\DEIS REPORT\MILITARY BUDGET Bus Fuel digest

FEB-14-2010

Schedule B- Contractual

		Unit	Total	Funded in	FY 2010?
Item	Quantity	Price	Price	Yes	No
N/A			\$ -		
			\$ -		
			\$ -		
			S -		
Total Contractual			\$ -		

Schedule C - Supplies & Materials

		Unit		Total	Funded in	FY 2010?
Item	Quantity	Price	1	Price	Yes	No
Fuel Cost			\$	800,000.00		
			\$	-		
			\$	-		
			\$	-		
			\$	-		
Fotal Supplies & Materials			\$	800,000.00		

Schedule D - Equipment

		Unit	T	Total	Funded in	FY 2010?
Item	Quantity	Price	1	Price	Yes	No
N/A			\$	-		
			\$			
			\$	-		
			\$	Ε.		
			\$	-		
Total Equipment			\$	-		

Schedule E - Miscellaneous

		Unit	Te	otal	Funded in FY 201	
Item	Quantity	Price	Pr	ice	Yes	No
N/A			\$	-		
			\$	-		
			\$			
			\$	-		
Fotal Miscellaneous			\$	-		

Schedule F - Capital Outlay

		Unit	Total	Funded in FY 20	
Item	Quantity	Price	Price	Yes	No
V/A			\$ -		
			\$ -		
			\$ -		
			\$ -	1	
			\$ -		

FEB-14-2010 BUS FUEL 23 JADEIS REPORTIMILITARY BUDGET
BUS FUEL 23 BUS FUEL 23

Total Capital Outlay	\$	

FEB-14-2010

BUS FUEL 24

J:\DEIS REPORT\MILITARY BUDGET
Bus Fuel Capital

Heusi Year 2011 Budge, Agency Staffing Patiers. RCP DEED SELITARY BUILDS

FUNCTIONAL AREA: Juliestration, Listing and Transportation
AZENCY: Experiment of Public Works.
PROCESSAM BUSINESSATIONS BOSSESS
FUNC: GENERAL END SHOULD MANUAL STRUCTURE.

Ţ			façot by I	Amptitional						1						Report by	Department	1	
1	(A)	(b)	(C)	(13)	(E)	(F)	(0)	(H)	(0)	(0)	(K)	(L)	(31)	(N)	(0)	(P)	(9)	(R)	(5)
т								Boo	Mercol				Hencilta						
-1	Position	Protire	Nave of	Grafe!								Retire (DOQ			1,654	Medical	Dental	Total boachts	0.48
ч	Number	Tirle	Incumbent	Step	Salary	Overtime	Special*	Due	Assess	Subtotal		G16.66*188**		(3.A5%*7)	(II)	(Prosskes)	(Preside)	(K three Q)	ZUTA
I		Administrative Alda	Vocast	F-21	17,633	0		N/A	0		4,60			316	176				92
_		Administrative Aide	Vacuut	F-01	17,614	0		N/A	0	17,635	4,543	- 433 666	0	356	174	4,076	386	16,247	2
	100 100 10	Administrative Asile	SUB-Trac	Fileral	A5,370			N. N St		35,270	7,585	866		5 - 133	748	8,152	772	36,538	.c g
I																			
4		Administrative Officer	Vacant	L-81	26,525			N/A		26,520	7,282	433		265	174	4,076	360	12,736	3
	6.00	Administrative Officer	SUB-Year	2000年300	34,05	0	4	HIBNE		36,550	7.283	(0)		. His	118	4.0%	346	72,736	
+		Servery LCTVING	Vicari	0.80	18,729			N/A		18,725	315	(2)	1 0	221	124	4.0%	386	16,462	2
7	11. 327	Societary I (Typing)	SUB-Tirst	1,256,27	16,023	55 F - W		BILL BLOT	0	48,723	3.145				100 miles 194	4.0%	C/C 366	30,412	
*	-			-	1,14,110				-	1-3-5									_
7		Ambiant SHO Superintendent	Vacant	1.46	26,529		6	N/A	0	26,530	7,282	433	0	185	176	4,016	3\$6	12,726	,
-77	2332A	salatani SEO Seperintendent	SL# Fool:	1,00423.00	36,510	6	4	FURNISHED	1	- 36,500	7.743	433	0	315	176	4,0%	.4 366	12,736	
7				E	1			- Bullion											_
7		Late Mechanic II	Vacant	3-81	21,389			N/A	. 0	31,369	5,979	40	6	310	110	4,006	316	11,233	
I			Vacant	3-01	21,319				. 0	21,392	\$,573	403	0	116		4,076	346	11,250	-
7			Without	3-01	21,589			NOA) 0	51,389	5,875	(32	0	110	111	4,076	386	11,733	,
т		Anto Meclasoic 2	Vacant	3-04	21,899	- 6		N/A	0	21,989	5,879	455		\$10	134		746	11,255	7
1		Auto Mechanic II	Vacant	5-04	21,399					21,389	5,873	433	0	110	174		386	11,739	
1	100	Nato Markinge II	SLIB-Total:	19-12-1	126,945	- 11 10-		in the standing	11 (1-13)		29,347	0,166	0.	2.551		20,380	1,350	56,264	1, 11
4				1.40	20.00			NA		26.520	7.053	413		365	134	1.00			-
+		Auto Mechanic Supervisor Auto Mochanic Supervisor	Variet SUIT-Tiese	1-01	26,530			NA.			7,292		2	363		4,016	316	12,796	-)
+	10000	And violating printeds	300-1990	OPT MARKET	25,35,520	4	. 0	the state of		- 26,520	7,782		0	383	134	- 14,006	, Mr	17,7%	
÷	COLUMN TOWN	School Rue Driver	Contract Contract	F-01	117/3			NO.		177.00	4.843	413	-	756	(56	4.006	596	10,167	_
+		School Nos Divier	Vicat	F-60	17,635		- 0			17,633	4,843			256	(34		300		
-		School Bui Letter	Victal	7-01	17,635		ŏ			17,605	4,843	400	v	256	(24	4,000	386	10,647	-
+			Variati	7-61	17,635				- 8	17,635	4,543		0			4,076	300	19,447	- 2
+			Veget	7-01	17,613						4,545	43	· · · · · · · · · · · · ·	256	134	4,0%	706	16,147	-
+			Vacer	7.01	17,633		- 6		0		1,843			256			386	10,147	-
+		School thus Driver	Vacant	7-01	17,635		1 6	No	0		4,643	433		256			296	19,147	- 2
+			Vansat	7-44	17,635		- ŏ		- 5	17,609	4,843						286	18,147	-
+			Vacual	7-61	17,635		D		1 5	17,646	4,868	413		256	136		196	19,147	
7			Veget	T-60	17,635	-	- 0		- 5		4,545	455	- 3	356	136	4.0%	344	10.147	
1		School Jus Debier	Vacent	7-01	17,635	1	Ó	NES	9		4,845	401		256			366	10,167	-
+			Viscaet	7.40	17,635	-	- 6	No	- 6	17.605	4,543	403		256			386	19,167	
+			Vacant	7-60	17,635		Ü		9		4,363			256		4,0%	396	10.167	-
_			Vauent	7.61	17,635		0					433		256			79.6	19,167	
+		School Due Deary	Vestel	17-65	17,605	1 0		N/A	- 5	11,615	4,545	413		2%		4,076	366	19.367	-
			Venet	7-61	17,635		Ó				4,843			256				19,167	
+			Variant	F-61	17,635		U		0		4,368		c	256		4,006	386	19.167	
_			Vager	1-60	17,635	- 5		N/A	9		4,845		- 6	26			386	29.767	- 7
+		School Star Depen	Vecent	7-60	17,635	- 0	0	2604	9	17,665	4,843	433		236	174		395	10.167	
+		School Dws Descer	Variet	F-61	17,435	- 0	0	NA		17,689	4,843			3%			386	10,507	
+		School ibus Ottoor	Vecsot	7-00	17,603	- 0	Ü		9					256	154	4,836	786	10.367	-
_			Vages	7.61	17.635	- 5			- 0	17,633				214	174	4,876	296	19,367	- 7
+		School Day Onica	Veget	F-61	17,635	- 6	0	NA		17,635	4,643	413	- 6	216	176	4,010	385	10,007	_
			Vacant	F-90	17,635	- 5		N/A	9		4.843	433			124	4,076	316	10,067	- 1
+			Veces	F-01	17,635	- 0	- 6		0	13,485	4,341			256	174	4,676	Min	10,167	- 5
+			Vaces	F-51	17.635	- 5	- 6		9	17,655				256	174		346	10,167	- 3

Government of Gourn Placel Year 2011 Budget Agency SteTing Proem ROPOSED MILITARY SUILDS

FUNCTIONAL AUTA: Jainstrutes, Diffrigued Tenegration AUSNAT: Chambass of Public Varies FROME BUS DEPENDENT SYSTEM FUND: GENERAL DEND STRAILDENGENG-111/112

- 1			Stead by D	petant						1						Septil by	Department	1	
		(B)	(C)	(P)	(3)	(F)	(G)	(8)	(1)	(1)	(K)	(1.)	(M)	(N)	(0)	(9)	19)	(R)	(S)
No.	Position Number	Position. Title	Make of buserbook	Grads' Skip	Salary	Oversine	Special*	Doe	Amount	(SEPERATE) Subrood	Katironcot (J*27.46%)	Ecolos (1708) (516.65*36PF)	Respire Social Security (6.356*/)	Medicare (L480/1)	1.6k (M)	Medical (Evanium)	Thread (Evenium)	Total Bewells (K Garu Q)	O+10 TOTAL
27 28		Sulmoi Bus Driver	Visconi Visconi	F-01	17,535	9	0	N/A M/A	0	17,635		411	0	256 256	874 874	4,016	346 346	10,167	21,80 21,80
25		School Box Driver School Box Driver	Vectori Vectori	F-01	17,635 17,635 3,5655	0	0	N/A N/A	. 8	17,605	486	403 401	0	356 356	874 874	4,876 4,876	786 786	10,167	17,80 27,80
(05/0	Sp. Sp. March	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Vaccet	140	11.06		333,536	F 1944- 1945	5 5,414.0	21,389	146,277	433 433	0.0	310	5,220	CD4	11,960	11,213	13,66
n de		School Box Oriver Supervisor School Das Delvier Supervisor	Venuel	141	21,980	0	(c-10) 10	90A	0	21,449	5,215	433	-313-100	110	174	4,076	366	11,200	32,642
GW 4		TAL PERSONNEL RECKENT	Marine Colonia de la como	2000		1073 BW	122 A	EUS PA	2/31619	10 minus	litous	Metaninis.	NEW W	2534444	C2*********	777 TRIME	70.40	20 mg	Chica

FEB-48700 805 25 of 45 JUNE 0 FEB - 1870 1 ST OF 1 ST

Government of Guam DEPARTMENT OF PUBLIC WORKS Fiscal Year 2011 Military Buildup Division Budget Digest

Function: Transporation Maintenance Division Department/Agency: Department of Public Works Program: Transportation Maintenance Division

		A	В	С	D	E	F
	I				Governo	or's Request	
AS400		FY 2009	FY 2010	FY 2011	FY 2011	FY 2011	FY 2011
Account		Expenditures &	Authorized	General	Federal Match	Other	Total Reg.
Code	Appropriation Classification	Encumbrances	Level	Fund	Fund(s)	Fund 1/	(C+D+E)
	T-pp1-op1-tation classification	1 2.1.00.1.01.01.01.01.01		1 10110	1 2 1 2 1		10.0.27
	PERSONNEL SERVICES						
111	Regular Salaries/Increments/Special Pay	\$0	\$0	\$0		\$506,086	\$506,08
112	Overtime	0		0		0	
113	Benefits	0	0	0	0	262,905	262,90
114	Insurance Benefits (Medical / Dental / Life)	0	0	0	0	0	
	TOTAL PERSONNEL SERVICES	\$0	\$0	\$0	\$0	\$768,991	\$768,99
	OPERATIONS	1					
			401	T	40	40	
220	TRAVEL- Off-Island/Local Mileage Reimburs.	\$0	\$0	\$0	\$0	\$0	5
230	CONTRACTUAL SERVICES:	0	0	0	0	187,000	187,00
233	OFFICE SPACE RENTAL:	0	0	0	0	0	
240	SUPPLIES & MATERIALS:	0	0	0	0	194,000	194,00
				ļ			
250	EQUIPMENT:	0	0	0	0	0	
270	WORKERS COMPENSATION	0	0	0	0	0	
270	WORKERS COMPENSATION						
271	DRUG TESTING	0	0	0	0	822	82
280	SUB-RECIPIENT/SUBGRANT:	0	0	0	0	0	
290	MISCELLANEOUS:	0	0	0	0	0	
	TOTAL OPERATIONS	\$0	\$0	\$0	\$0	\$381,822	\$381,82
	UTILITIES	1					
361	Power	\$0	\$0	\$0	\$0	\$0	\$
362	Water/ Sewer	90	0	0	0	Ş0 0	
363	Telephone/ Toll	0	0	0	0	0	
303	TOTAL UTILITIES	\$0	\$0	\$0	\$0	\$0	\$
	TOTAL OTHER	30,	301	30	301	30	
450	CAPITAL OUTLAY	\$0	\$0	\$0	\$0	\$800,000	\$800,00
	TOTAL APPROPRIATIONS	\$0	\$0	\$0	\$0	\$1,950,813	\$1,950,813
	1/ Specify Fund Source						
	FILL TIME COLUMN ENGES /FTF-1	Ī					
	FULL TIME EQUIVALENCIES (FTEs) UNCLASSIFIED	0.00	0.00	0.00	0.00	0.00	0.0
	CLASSIFIED	0.00	0.00	0.00	0.00	23.00	23.0
	TOTAL FTES	0.00	0.00	0.00	0.00	23.00	23.0
	TOTALFIES	0.00	0.00	0.00	0.00	23.00	23.0

J:\DEIS REPORT\MILITARY BUDGET TM digest

FEB-14-2010

TM 27

Schedule B- Contractual

		Unit	T	Total	Funde	ed in FY 2009?
Item	Quantity	Price	Price		Yes	No
Contractural repair for vehicles & equipment			\$	100,000.00	Х	
-Connect Air Time			\$	7,000.00	X	
Waste oil/hazardous material disposal			\$	5,000.00		X
Fleet Management Software			\$	75,000.00		Х
Total Contractual			\$	187,000.00		

Schedule C - Supplies & Materials

		Unit	T	otal	Funded in FY 2009?		
Item	Quantity	Price	P	rice	Yes	No	
Parts and Materials for Light Vehicles			\$	50,000.00	X		
Parts and Materials for Heavy Equipment			\$	80,000.00	X		
Batteries for vehicles/equipment			\$	10,000.00		Х	
Fuel			\$	20,000.00	X		
Misc. Shop Tools			\$	30,000.00		Х	
Misc. Office Supplies			\$	4,000.00		Х	
Total Supplies & Materials			Ś	194,000.00			

Schedule D - Equipment

		Unit	Total	Funded in FY 2009?		
Item	Quantity	Price	Price	Yes	No	
			\$ -			
			\$ -			
			\$ -			
			\$ -			
Total Equipment		Ś -	_			

Schedule E - Miscellaneous

		Unit	Total	Funded in FY 2009?		
ltem	Quantity	Price	Price	Yes	No	
Drug Testing	23	35.75	\$ 822.25			
			\$ -			
			\$ 			
			\$ -			
Total Miscellaneous			\$ 822.25			

Schedule F - Capital Outlay

		Unit	Total	Funded in	FY 2009?
ltem	Quantity	Price	Price	Yes	No
Fuel Service Truck	1		\$ 300,000.00		Х
Fuel Tanker Truck	1		\$ 500,000.00		Х
			\$ -		
			\$ -		
Total Capital Outlay			\$ 800,000,00		

otal capital outlay

FEB-14-2010

TM 28

1,181,822.25 MILITARY BUDGET TM Capital

PLACTIONAL AREA: Information, Collete, and Transportation URPARTMENT PARTMENT, Public Works

PROGRAM: 1000 Transportation Maintenance PUND: MILHTARY SOLEDE?

Stephen by	Department														Japan by I	Эригани	1	
(A)	(8)	(0)	(D)	(E)	(F)	(6)	(H)	(1)	(1)	(X)	(L)	(M)	(N)	(0)	(1)	(0)	(R)	00
Protein Name	Position Trip	Newfol Installer	Gues Sup	Selecy	Overies	Special:	Dece	Ant	(h-F+G+1) Sahutal	Policies (2.27.485)	Risk (DO) (516462)42	Social Security (62% 17)	Molicon (1.45% * Jr	Life (U)	Modest ePromised	Devot (Fromkov	Total Benefits (Kiter, Q)	(J-R) TOTAL
1.1	Adamstor Aide	VACANI	lund	\$17,615		. 91		30	317,035	\$4,843	\$103	39	3279	5124	\$4,076	1205	\$12,150	327.00
1	Admicalative Aide	VAUANI	1-et	17.655	0	- 0			17,635	1.813	453		259	124	4,006	105	13,168	27.507
3 1	Administrative Officer	VAUNT	L-90	26,520	9	- 0		- 0	29,520	7,282	433		363	134	4,035	163	12,756	35.256
4	Assistant Superlikandent	VACANT	10.01		2	0		0	35.811	9,185	433		400	124	4,00%	385	34,544	48,655
5	Automotive Weekasie I	VACANT	\$1-01	19,974		C		- 6	19.974	5,485	431		250	174	4,075	356	20,944	10,618
5	Automotive Mechanic I	VACANT	81-31	19,971				- 6	19.974	5,035	475		750	176	4.075	364		78,7 H
7	Automotive Meckanic I	VACANT	BI 01	19,971		U		€	19,974	3,481	- 63		290	174	4,975	20A	16,544	13,419
8	Assumption Mechanic III	VALANT:	100	21,509					71.344	5,471	413	- 5	315	174	4,576	384	11,258	12,662
6	Annuative Medicals II	VACANT	3.00	21,399		2			21369	5,973	403	- 6	\$15	174	4,976	384	11,253	32,602
(9)	Automotive Mechanic II	VACANT	541	21,869		. 3		- 0	213(1)	5.673	405	- 6	310	174	4,016	386	11.263	32,642
L)	Automotive Machania II	VACANT	E-64	21,759		ð		. 0	21.567	5.979	401	- 0	310	174	4,016	384	11.253	72,142
12.	Autopoting Mechanic II	VACANT	6-61	21,369		δ		: 0	28,399	5.679	403	- 0	310	174	4,016	.98	11.253	17,647
15	Automotive Machania ()	VACANT	E-81	21,369		,		0	21,799	5.973	422	0	310	174	4,07e	181	11.25	17.642
14	Ashmetive Medicals (1	VACANT	E41	21.350	- 5	9		0.	21.389	5.823	433	0	310	174	4,076	186	11,253	37.642
15	Automotive Mechanic Supervior	VACANI	1.04	26,520	- 5	-		0.	26,529	7.282	403	0	145	174	4.076	186	12,726	39,236
lo ol	Clinic Secretary Typiss	VACANI	13-66	15.974	- 6	- 3		0.1	13,954	5.686	432	- 0	290	179	4,076	196	2010066	30316
17	Едирискі Орегиня Ц	VACANT	G-H	16.727				D	18,723	5,841	433	- 0	271	174	4.6%	166	20,492	79.703
15	Heavy Egylpmout Modunic II	WACANT	1-01	21,389	- 0	- 6		0	21,399	5,873	433	0	716	100	4,076	148	11.255	32.642
19	Heavy Egyipment Medicatic II	VACANT	101	21,345	6	- 6		0	21,389	5,873	413	- 6	306	174	4.1176	Pan.	11,255 (32.642
24	Henry Faulmers Medigais (I	VACANT	101	21,385	0			0	21,110	5,871	411	- 0	4.0	174	4.076	166	17,255	32.642
71	Burny Equipment Medicate II	NACANT	1-01	21.385	0			- 6	21,340 ;	2,574	433	0	410	176		75a	11.253	12.612
92	Beny Equipment Mostnair II	VACANT	101	21.385	ů.	-		- 6	21,680	1,974	411	- 0	110	174	4.079	35e	11,253	14.542
23	Transportation Nuterinal	VACANT	M-21	28.618	- 41	2		- 6	28.478.1	7,575	411		416	174	4,075	166	13,300	47,718
31 2.0	OTAL PERSONNEL REQUEST	Grand Total	die Sal	504,044	* Sec. 4	301.534	Shruinte ur	53550	3656	138,971	1,991	33.5	S. Hillian	4,802	30,754	8,314	342,505	768,992

NIS PORTON SERVING SER

FEB-14-2-10

TM 29 of 43

Government of Guam DEPARTMENT OF PUBLIC WORKS Fiscal Year 2011 Military Buildup Division Budget Digest

Function: Infrastructure, Utilities and Transportation
Department/Agency: Department of Public Works
Program: Building Construction & Facilities Maintenance Division

		A	В	С	D	E	F
					Governo	r's Request	
AS400		FY 2010	FY 2010	FY 2011	FY 2011	FY 2011	FY 2011
Account		Expenditures &	Authorized	General	Federal Match	Other	Total Req.
Code	Appropriation Classification	Encumbrances	Level	Fund	Fund(s)	Fund 1/	(C+D+E)
	PERSONNEL SERVICES	\neg					
111	Regular Salaries/Increments/Special Pay	-1	-11		-1	399,115	399,11
112	Overtime	-	-	-	-	-	077411
113	Benefits		-		-	221,849	221,84
	TOTAL PERSONNEL SERVICES		-	-		620,964	620,96
	OPERATIONS	7					
220	TRAVEL- Off-Island/Local Mileage Reimburs.	-	1-1	-	-	-	
			[]				
230	CONTRACTUAL SERVICES:	-	-	-	-	42,850	42,85
***	OPPLOT ON LOD DESIGNAT						
233	OFFICE SPACE RENTAL:	-		-		-	
240	SUPPLIES & MATERIALS:					412,420	412,42
240	SUITELES & MATERIALS.		H			412,420	412,42
250	EQUIPMENT:	-	- 1	-		60,000	60,08
270	WORKERS COMPENSATION	-	-	-			
271	DRUG TESTING	-				751	75
					-	734	
280	SUB-RECIPIENT/SUBGRANT:	-	-	-	-	-	
290	MISCELLANEOUS:						
230	MISCELE/CTEOUS.						
	TOTAL OPERATIONS	-	-	-		516,021	516,02
	UTILITIES						
361	Power	-1	- 11	-1			
362	Water/ Sewer		- 11	-		-	
363	Telephone/ Toli	-	- 1	-		9,280	9,28
	TOTAL UTILITIES		-			9,280	9,28
450	CAPITAL OUTLAY		-11	-1	-1	200,000	200,00
	C. C. C. C. C. C. C. C. C. C. C. C. C. C					200,000	200,00
	TOTAL APPROPRIATIONS	-1	-11		T	1,346,265	1,346,26
	1/ Specify Fund Source						
	FULL TIME EQUIVALENCIES (FTEs)						
	UNCLASSIFIED	-		-	-	-	
	CLASSIFIED		-	-		21	21
	TOTAL FTEs		-	-	-	21	21

 FEB-14-2010
 BM 30
 MHLITARY BUDGET

 BM digest
 BM digest

Schedule B- Contractual - 230

		Unit	Total	Funded in	FY 2010?
Item	Quantity	Price	Price	Yes	No
Refrigeration Contractual Services		3,000	\$ 3,000.00		х
Sewage Pumping & Related Contractual Svcs.		3,000	\$ 3,000.00		х
Printing Services (Work Orders)		800	\$ 800.00		х
Annual Physical Examination		3,000	\$ 3,000.00		×
Office Equipment Repairs		1,000	\$ 1,000.00	-	х
Rodent Control Contractual Services		7,500	\$ 7,500.00		×
Termite Treatment/Pest Control		10,000	\$ 10,000.00		х
Fabrication of Keys		550	\$ 550.00		×
Hand Radios Contractual Services		6,000	\$ 5,000.00		x
Xerox Contractual Services		8,000	\$ 8,000.00		×
Total Contractual			\$ 42,850,00		×

Schedule C - Supplies & Materials - 240

		Unit	Total	Funded in	n FY 2010?
ltem	Quantity	Price	Price	Yes	No
Carpentry Operational Supplies & Materials		110,000	\$ 110,000.00		х
Electrical Operational Supplies & Materials		20,000	\$ 20,000.00		x
Refrigeration Operational Supplies & Materials		23,000	\$ 23,000.00		х
Plumbing Operational Supplies & Materials		23,000	\$ 23,000.00		×
Finishing Paint Operational Supplies & Materials		15,000	\$ 15,000.00		х
Custodial Operational Supplies & Materials		5,000	\$ 5,000.00		×
Office/Computer Operational Supplies & Mat'ls		5,000	\$ 5,000.00		×
Safety Supplies & Materials		5,000	\$ 5,000.00		×
Auto Parts & Tires		6,420	\$ 6,420.00		×
Building Inventory		200,000	\$ 200,000.00		×
Total Supplies & Materials			5 412,420.00		

Schedule D - Equipment - 250

		Unit	Total	Funded in	FY 2010?
Item	Quantity	Price	Price	Yes	No
Carpentry Operational Tools & Equipment			10,000.00		х
Electrical Operational Tools & Equipment			10,000.00		х
Refrigeration Operational Tools & Equipment			10,000.00		х
Plumbing Operational Tools & Equipment			10,000.00		х
Finishing/Paint Operational Tools & Equipment			5,000.00		х
Custodial Operational Tools & Equipment			5,000.00		х
Office Operation Tools & Equipment			10,000.00		х
Total Equipment			60,000.00		

Schedule E - Drug Testing - 271

		Unit	Total	Funded in	FY 2010?
Item	Quantity	Price	Price	Yes	No
Drug Testing	21	35.75	750.75		×
			-		
Total Drug Testing	\$ 750.75				

Schedule F - Utilities - 363

	Unit	Total		Funded in FY 2010?		
Item	Quantity	Price	Price		Yes	No
Telecommunication (Phone System)		9,280	\$ 9	280.00		×
			\$	-		
Total Miscellaneous			5 9	280.00		

Schedule G - Capital Outlay - 450*

	Unit	Total	Funded in FY 2010?		
ltem	Quantity	Price	Price	Yes	No
Carpentry Capital Equipment	2	30,000 + 20,000	50,000.00		х
Electrical Capital Equipment	1	30,000	30,000.00		x
Refrigeration Capital Equipment	2	30,000 + 20,000	50,000.00		×
Plumbing Capital Equipment	2	30,000 + 20,000	50,000.00		х
Custodial Capital Equipment	1	20,000	20,000.00		х
Hazardous Priority Improvement Projects					×
Total Capital Outlay			\$ 200,000.00		

^{*450 -} Utility Vehicles @ \$30,000.00 each x 4 = \$120,000.00 *450 - P/Up Trucks @ \$20,000.00 each x 4 = \$80,000.00

MILITARY BUDGET BM Capital

PRODUCTION And No information of Production (Production of Production of

BCFM 32 of 43

PARTY	RINTIAGENEY: P	cuthutina & Pacifilia)						Figural V	Tog Pattern									равных
			i ap	i ly Dpioteoi						1					lan.et	Equition	1	
44	i p	(8)	4C)	170	1fa	(\$)	(0)	(8)		th	410	(L)	(30)	(N) 40	(2)	10)	(8)	(9)
Her Mar		Prolife Tale	Name of Bases days	Section 1	Salary	Overhow	Special	Des	del dest	(gerece)) Soleral	2*27.650	\$3447999	Secol Severy	Harris G	Maried 1 Proplem	Desirt (Psychosis	Soul Smelle (Kites Q)	(3+R) 300AL
					ut by Departmen							Į.						
0	1)	(8)	(C)	(D)	(E)	(F)	(0)	(II)	(1)	(1)	(K)							
No.		Pagesto TWO	Tride of Sections	Mightly Pipi	Triple Enterories Zay RMS	Statement 2106	History Str.	Name Sandry Pay 1.5	House they 1.5	PAS PIS UN	E-FHO-EHI-J Sebood							
1				\$0	- 8	\$1 \$1	10 50	50 50	- 8	- 87		Į						
	Circle II		VACANT DUB-Tend	\$0 \$0	39	30	36	30	50	90 92 50	50							
	Scortery 1(T) (Typical)	(rist)	VACANT SUB-Tool	50 50	50 50	\$1 20	50 50	50	51	50 50	\$0							
4232	MADITE AND TENAN	CE CUSTODIAN	VACANT VACANT	\$6 \$6	\$0 50	50 50	36 50		\$1 \$1	\$0 \$0	50							
4218	MAD TENAN	CE CUSTODEW	VACANT VACANT VACANT	30 30	\$0 \$0 \$0	50	50 50	30	\$0 \$1 \$1 \$0	50 30 50 50	\$0							
kriesza i	A Cocavilian	CE CSOTORIAN	SI/M-Total	50 50	30 30	50	50											
4177	Currentor 2		VACANT	- 50	13 50	59	55	50	90	50								
4220	Corpanse T		VACANT	- 59	50	59	- 8	- 51	90	50	50	1						
esic motor i	-		SUB-Test	39 50	\$0	50	50	50	\$0 \$3	50 50	50							
4195			VACANT	50	\$3	\$0		50	50	50								
4199 people I	Ognecl		VACANT SUB-TIMO	50	90	to o	50	50	99									
Flore	90			55	50	50	- 51	51	50	10	59							
6230 8 Gian	Electarician I (Electarician I		VACANT VACANT SUB-Track		\$0 \$0		- 10 50 0	50 50 0	50 50 0	50 50 0	50							
Point 4268 for Les	Stwinter Leader		VACANT (Design 7, place) SUS-Tunk	50 	50 - 50 0	50 10	N	30	50 50 0	36 36 0	100							
4170 4172 8a B	Palar I Patar I		VACANT VACANT SUB-Find	33 50 53	10 30 30	50 50 10	30 30 30		99 90 90	30 36 30	50							
Hose eyes dux X	Founder to		VACANT SUB-Triple	30 30 0	90 10 0	50 50 0	- 81 - 83 - 1	30 30 3	99 80 0	50 50 0								
2210								всги :	33 of 43			'				,	MARLE DES REPORTA	NE TA TYDIN BLITARY BUE B

| Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted Close | Contrasted

BCFM 94 of 43

|BBMR BD-1|

Government of Guam DEPARTMENT OF PUBLIC WORKS Fiscal Year 2011 Military Buildup Division Budget Digest (Proposed)

Function: Infrastructure, Utilities, and Transportation

Department/Agency: Public Works/Division of Engineering - Vertical (CIP'S)

Program:

5 0 0

				1			
	1	ΑΑ	В	С	D	Е	F
AS400				-		ernor's Request	
AS400 Account		FV 2009	FY 2010	FY 2011	FV 2011	FY 2011	FY 2011
Code	Appropriation Classification	Expenditures &	Authorized	General	Federal Match	Other	Total Req.
Code	Appropriation Classification	Encumbrances	Level	Fund	Fund(s)	Fund 1/	(C+D+E)
	PERSONNEL SERVICES	7					
111	Regular Salarias/Increments/Special Pay	SI	50	so	SO		
112	Overtine	0.	0	0		\$947,618	\$947
113	Benefits	0	0	0	0	451,371	
	TOTAL PERSONNEL SERVICES	50	50	59	50	\$1,398,989	451 \$1,398
	TOTALITEROUNIES DERVICES	30	24	34	30	51,378,789]	\$1,398
	OPERATIONS	7					
220	TRAVEL- Off-Island/Local Mileage Relimburs.	SO	\$10	\$0	50	\$128,050	5128
		1			30	\$120,000	3146
239	CONTRACTUAL SERVICES:	a	0	0	0	82,500	82
		1				62,300	
233	OFFICE SPACE RENTAL:	0	0	0		0	
240	SUPPLIES & MATERIALS:	0	9	0	0.	75,191	75
250	EQUIPMENT:	0	6	6	0	83,797	83
270	WORKERS COMPENSATION	0	o o	o	0		
271	DRUG TESTING	e	0	0	0		
280	SUB-RECIPIENT/SUBGRANT:	0	0	0	0	0	
290	MISCELLANEOUS:	0	0	0		0	
	TOTAL OPERATIONS	\$0	50,	50	so	\$369,538	5369
		7					
	UTILITIES						
361	Power	S0	50	50	\$0	\$0	
362	Water/ Sewer	0	0	D	0		
363	Telephone/ Toll	- 6	0	0	0		
	TOTAL UTILITIES	SO	\$0	50	S0	S0	
400	CARITAL OUTLAN	Т	-1				
450	CAPITAL OUTLAY	20	50	\$9	\$6	\$395,000	\$395
	TOTAL APPROPRIATIONS	50	SO	SO			****
	1/ Specify Fund Source	301	50	50	30	\$2,163,527	\$2,163,5
	, ,						
	FULL TIME EQUIVALENCIES (FTEs)	7					
	UNCLASSIFIED	0.60	0.80	0.00	6.60	0.00	
	CLASSIFIED	0.00	0.00	0.80	0.00	35.00	3:
	TOTAL FTEs	0.00	0.00	0.00	0.00	35.00	35

MILITARY BUDGET CIP digest

CIP 35

c=n-s

BBMR98A

FISCAL YEAR 2011-MILITARY BUILDUP PROPOSED

Schedule B- Contractual

	Г	Unit	T	Total	Funded in FY 201		
Item	Quantity	Price		Price	Yes	No	
Advertisement			\$	2,000.00			
Airtime Charges			\$	5,000.00			
Computer Programming / Maintenance			1 \$	20,000.00			
Computer Repair / Services			\$	3,000.00			
Fax Machines Repair / Service			\$	5,000.00			
I-Connect Radio Lease / Repair / Service			\$	10,500.00			
Maintenance of Air Conditioning Units			\$	1,000.00			
Maintenance of Vehicles			\$	10,000.00			
Map/Documents Reproduction Services			S	3,000.00			
Membership Fees			\$	2,000.00			
Office Equipment Maintenance / Repair			\$	12,000.00			
Postage Services			\$	500.00			
Printer Repair / Services			\$	1,000.00			
Printing Sevices			\$	7,500.00			
Total Contractual			\$	82,500.00			

Schedule C - Supplies & Materials

	- [Unit		Total	Funded in	FY 2010
ltem	Quantity	Price		Price	Yes	No
Equipment Parts			\$	10,000.00		
Fuel and Lubricant			8	8.000.00		
Office Materials and Supplies			\$	20,031.00		
Operational Supplies			1 \$	16,000.00		
Refilable 5 Gallon Bottle Water			\$	5,160.00		
Safety Gears and Devices			3	7,000.00		
Safety Shoes			8	2,000.00		
Tires			\$	2,000.00		
Vehicle and Equipment Parts			\$	5,000.00		
Total Supplies & Materials			\$	75,191.00		

Schedule D - Equipment

	Unit	T	Total	Funded in	FY 2010
Quantity	Price		Price	Yes	No
		\$	20,000.00		
		\$	10,000.00		
		\$	3,600.00		
		\$	39,197.00		
		S	3,000.00		
		\$	4,000.00		
		\$	4,000.00		
		\$	83,797.00		
	Quantity			Quantity Price Price S 20,000.00 \$ 20,000.00 \$ 10,000.00 \$ 3,800.00 \$ 30,197.00 \$ 3,000.00 \$ 4,000.00 \$ 4,000.00	Quantity Price Price Yes

Schedule E - Miscellaneous

		22 77	_			
		Unit	L	Total	Funded	in FY 2010
Item	Quantity	Price		Price	Yes	No
			\$			
			\$	-	***************************************	
			\$	-		
Total Miscellaneous			\$	-		

Schedule F - Capital Outlay

	Γ	Unit		Total	Funded in FY 2019		
Item	Quantity	Price	Price Price		Yes	No	
4DR Sedan			\$	18,000.00			
Equipment Parts over \$5,000			\$	5,000.00		CONTRACT STATE OF	
Office Equipment Parts over \$5,000			8	15,000.00			
Pickup Truck			8	108,000.00			
Purchase of Office Equipment over \$5,000			\$	10,000.00			
Purchase of Vehicles			\$	125,000.00			
SUV Vehicle			\$	104,000.00			
Vehicle Parts over \$5,000			\$	10,000.00			
Total Capital Outlay			\$	395,000.00			

GRAND TOTAL CAPITAL OUTLAY

J:\DE\S REPORT\MILITARY BUDGET CIP capital

636,488

GOVERNMENT OF GUAM FISCAL YEAR 2011-MILITARY BUILDUP (PROPOSED)

[BBMR TA-1]

Schedule A - Off-Island Travel

Department/Agency: <u>Public Works</u>
Division: <u>Engineering - Vertical (Capital Improvement Projects)</u>

	Purpose / .	Justification for	or Tra	vel					
Off-island travel is necessary to acquire knowledg and 2006 Edition of the International Building Cod	e in the late	st technology	in co	nstruction ma	ana	gement			
Travel Date: To be announced				No. of	f Tra	avelers: 4			
Position Title of Traveler(s) Air Fare Per diem 2/ Registration Total Cost									
Building Permit & Inspection Administrator	\$	3,000.00	\$	925.00	\$	1,000.00	\$	4,925.0	
Chief Building Inspector	\$	3,000.00	\$	925.00	\$	1,000.00	\$	4,925.0	
Building Inspector II	\$	3,000.00	\$	925.00	\$	1,000.00	S	4,925.0	
Construction Inspector II	\$	3,000.00	\$	925.00	\$	1,000.00	\$	4,925.0	
	SUB-TOTAL						S	19,700.00	

Program: Construction Quality Control Sect								
		/ Justification for						
Off-island travel is necessary to acquire kno	wtedge in the la	itest technology	in co	nstruction ma	ana	gement		
and 2006 Edition of the International Buildin	g Code in all ar	eas of engineer	ing di	scipline.				
Travel Date: To be announced				No. of	Tr	avelers: 5		
Position Title of Traveler(s) Air Fare Per diem 2/ Registration								Total Cost
Engineer Supervisor	\$	3,000.00	\$	925.00	\$	1,000.00	\$	4,925.00
Engineer III (2)	\$	6,000.00	\$	1,850.00	\$	2,000.00	\$	9,850.00
Engineer II (2)	\$	6,000.00	\$	1,850.00	\$	2,000.00	\$	9,850.00
Construction Inspector II (2)	\$	6,000.00	\$	1,850.00	\$	2,000.00	\$	9,850.00
	SUB-TOT.	AL					S	34,475.00

	Purpose	Justification fe	or T	ravei					
Off-Island travel is nacessary to acquire knowledge in the latest technology in construction management and 2006 Edition of the International Building Code in all areas of engineering discipline.									
ravel Date: To be announced No. of Travelers: 5									
Position Title of Traveler(s)		Air Fare	F	Per diem 2/		Registration	T	Total Cost	
Engineer Supervisor	\$	3,000.00	\$	925.00	\$	1,000.00	\$	4,925.00	
Engineer III (2)	\$	6,000.00	\$	1,850.00	\$	2,000.00	\$	9,850.00	
Engineer II (2)	\$	9,850.00							
SUB-TOTAL								24,625.00	

	Purpose	Justification for	or Tra	vel			
Off-island travel is necessary to acquire knowl					anaq	ement	
and 2006 Edition of the International Building							
Travel Date: To be announced			_	No. o	Tra	velers: 5	
Position Title of Traveler(s)		Air Fare	Pe	r diem 2/	R	egistration	 Total Cost
Engineer Supervisor	\$	3,000.00	\$	925.00	\$	1,000.00	\$ 4,925.0
Engineer III (2)	\$	6,000.00	\$	1,850.00	\$	2,000.00	\$ 9,850.0
Engineer II (2)	\$	6,000.00	S	1,850.00	\$	2,000.00	\$ 9,850.0
	SUB-TOTA	IL.					\$ 24,625.0

Program: Project Coordination & Quality Control Sec	tion				_				
		Justification for							
Off-island travel is necessary to acquire knowledg	e in the lat	est technology	in o	onstruction m	ana	agement			
and 2006 Edition of the International Building Cod	de in all are	as of engineer	ing c	tiscipline.					
Fravel Date: To be announced No. of Travelers: 5									
Position Title of Traveler(s) Air Fare Per diem 2/ Registration								Total Cost	
Engineer Supervisor	\$	3,000.00	\$	925.00	\$	1,000.00	\$	4,925.00	
Engineer III (2)	\$	6,000.00	\$	1,850.00	\$	2,000.00	\$	9,850.00	
Engineer II (2)	\$	6,000.00	\$	1,850.00	\$	2,000.00	\$	9,850.00	
SUB-TOTAL \$ 24,625.00									

GRAND TOTAL	\$ 128,050.00	
The state of the s	 	

1/ Provide justification for multiple travelers attending the same conference / training / etc.
2/ Rates must be consistent with Title 5 GCA, Div.2, Ch.23, §23104 and federal Joint Travel Regulations

MILITARY BUDGET CIP Travel

Government of Guass Fiscal Year 2011 - MILITARY BUILDUP AGENCY STAFFING PATTERN (PROPOSED)

FUNCTIONAL AREA: Infragructure, Utilities, and Transportation

DCPAREMENT/AGENCY: Public Works

PROGRAMS: Engineering - Vertical (CIP'S, Office of Civil Engineer)

FUND: Military Balldup

Į.			Input by	Pepartree	15											Inset by 0	Reportment		
1	[1]	(8)	(¢)	[0]	(5)	(F)	(G)	(H)	(1)	(1)	(×)	(0)	(M)	[N] Senefit	(0)	(2)	(0)	(8)	
-1	Position	Jesition	Named	Grada!				Incre	enent.	(6-7-6-1)	Rotirement	Ratire (CC1)	Social Security		Liče	Medical	Oontal	Total Screnits	(J+R)
	Number	Tide	Incumbent	Step	Salary	Overtime	Special*	Date	Av4.	Sobbotal	0 * 27,4650	(\$16.66*26PP)	[6.2% *1]	(1.45N*.B	(1/)	(Premium)	(Premium)	(KenniQ)	TOTAL
	CDE	Administrative Officer	WACANT	1/1	26,530	0	0		0	26,520	7,282	433	0	385	174	4,076	386	12,736	- PL
740		Admittistrative Officer	50b-Total	1000	25,520	. 0	A. H.S. 0	500 S		∩ © 26,520	7,282	433	10	385	574	4,076	10177 (386)	12,736	29
-	80	Building Buspectur II	VACANT	14	22,942	0	0	-	D	22,942	6,100	433	0	383	174	4,076	356	11,703	34
+		Building Impector II	VACANT	3-5	22,942	0	0		0	22,942	6,300		0	334	174	4,076	356	11,702	34
-		Sulfring Brapactor II	VACANT	3-1	22,942	0	0		- 6	22,942	6,300		0		174	4,076	386	11,702	34
-		Building Inspector II	VACANT	3-1	22,942	0	0		0	22,942	6,303	433	0	333	174	4.076	386	11,702	34
177		Building Properties II	SUNTING	1.4	71-191,768	0.00	- 0				25,153		4622.0	4,381	> 806	16,304	1,544		138
-	coc	Condraction Inspector II	VACANT	1-1	22,942	n	0			22,912	6,300	412		313	174	4.076	356	11,702	34
-		Construction Inspector II	VACANT	1-5	22,942	0	- 0			22,942	6,303		0	393	374	4,076	326	11,702	34
0	7	Construction Inspector II	/ SUB-Total	25200	45,884	- Facility			B		12,000		75.43.20	11-12-605	348	0.152		23,403	
			VACANT	141	26,520		0		0	26,520	7,282	433	е	385	324	4,076	200	12,736	36
-		Curatevolian Nepoctor III	VACANT	14	25,520	0	0		0	26,520	7,282	433	0	385	174	4.076	386	12,736	36
-	8P	Construction inspector III	VACANT	L/I	26,520	0	0		0	26,520	7,282	433			174	4,075	306	12,736	20
-	COC	Conseruction Inspector III	WACANT	W	26,520	0	- 0		1 0	26,520	7,282	403	0	385	174	4.075	306	12,736	30
	COC	Construction Inspector III Construction Indoctor III	ASSUMPTIONS TO SE	3.5470	75,0to	3 00 40			- D		25,130	127.75.4,733	C-240000	1711 4,538	124	16,304		50.944	157
7	VC 1875	Comprising respector 4		7,5,000	1715-1605-000			7.1.0555	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- / Bonyona	yes, course				111,000	- 25.5800005			
\neg	80	Customer Service Representative	WALANT	H-2	19,594	0	C		0	19,974	5,485	433	0	290	174	4,076	386	10,843	30,
\neg	80	Customor Service Regresentative	VACANT	16-1	19,974	0			. 0	19,974	5,485	433	0	290	174	4,076	396	10,843	90,
824	102/20	Customes Service Representative	SUB-Tutal -	10AV	39,948	270,00	- 0	W2253	200-10	39,948	50,970	CO. CO. 864		570	.Y to 340	9,111 8,152	772	21,587	J. (14.61)
+	80	Customor Service Supervisor	VACANT	1-1	22,942	0	- 0			22.942	6,900	433	0	343	124	4,076	356	11,702	34
1	7770	Customer Service Supervisor, 1997, 11	5 "SUB-Total	North 1	22,942	297:0				22,942	5,300	G352-8433	(0.000 to 0.000 to 0.	313	174	4,076	306	11,702	245,534
-	CAT	Evolution I	VACANT	M-1	25.678	0			0	28,578	7,875	411	0	416	324	4.076	386	13,360	42.
\rightarrow	CAT	Engineer II	VACANT	M-1	28,678		0		0	28,678	7,825	433	0	415	174	4,075	3.06	13,360	42,
-	COC	Engineer II	VACANT	M-1	23.678	0	- 0		0	28,678	7,875	412		416	174	4,076	356	18,860	42
\neg	COC	Engineer II	VACANT	54-1	28,678	0	0		0	25,678	7,675	453	.0	416	174	4,075	386	13,360	42
\neg	OBA	Engineer II	VACANT	M-1	28,678	0	0		0		7,875	433	9	416	176	4,075	344	18,360	45
	A85	Engineer II	VACANT	M-1	28,678	0					7,875	433	0	416	174	4,076	356	13,360	42
	POQC	Engineer II	VACANT	Mic	28,678	- 0	. 0		0		7,575	433	0	416	174	4,076	386	13,360	42
	INDE	Erginser II	VACANT	Mel	25,678	0	. 0			28,678	7,875	433	91		3.74	4,076	386	13,360	42
-3	20/9X.0	Eigner Committee	SUB-Total	2-10	229,424	0	1.01-20	9 3 a B	. 0	229,424	24 5 583,000	. P.R. / B.4641	4)n2,47%	1,327	.7.11,352	32,008	3,088	105,878	314
-	CAT	Engineer II	VACANT	K-1	31,054	0			- B	31.064	8,530	463	5	450	174	4,075	316	14,050	45

Generation of General Fiscal Year 2011 - MILITARY BUILDUP AGENCY STAFFING PATTERN (PROPOSED) IBHMR SP-11

RUNCTIONAL AREA: Infrastructure, Utilities, and Transportation

DEPARTMENT/AGENCY: Public Works

PROSPANC: Engineering - Vertical (CIP'S, Office of Chief Engineer)

PUND: Military Bullstop

			Input by	Departme	45					1						Input by 6	epartment	1	
	[6]	(8)	(c)	(P)	(8)	(F)	(C)	(H)	(1)	(0)	(8)	(L)	(M)	(N)	(0)	(*)	(Q)	(8)	(5)
Ses.	Position.	Fesition Title	Name of Incurbent	Grada/ Step	Salary	Overtime	Special*	1sure Oate	Ant.	E=F=G=L) Subtrotal	Retirement (J * 27.46%)	Retire (DDI) (\$16.65*26PP)	Social Security (6.2% * J)	Medicare (1.45% ° J)	Uffer (IL/)	Medical (Fremium)	[Dortal (Fremium)	Total Benefits (Kthn: Q)	[#+R] TOTAL
3	CAT	Engineer III	VACANT	04-1	31,064	0			0	35,064	8,590			450	174	4,075	386		45,11
3	cqc	Cridneer III	WACANT	24:1	31,064		0		. 0	\$1,064	8,530		0	450	174	4,076	366		45,71
4	CQC	Ergincer III	VACANT	74-1	31,064				0	\$1,064	8,590		0	450	174	4,076	366		45,11
5	ASO	Crigineer III	VACANT	/4-2	81,064				- 0	31,064	8,530			450	174	4,076	316	14,050	45,11
6	D&A.	Craciniaer III	WACANT	A4:1	31,054	Ð	0		0	31,064	0,530		0	450	174	4,075	386	14,060	45,11
7	FEQC	Engineer III	VACANT	74-1	11,064	0	0	L		\$1,064	8,590		0	450	174	4,076	386	14,350	45,11
8	PCQC	Engineer II	WACANT .	74-1	31,064	0	0		0	31,064	8,530		3	450	174	4,076	756 21060103.068	14,050	45,11
9328	N, MU(S)	Engineer III. 551 (2505) (A4077)	SUB-TOOLS	304-21	248,512	100 m	A-045/2-40	5,956510	(A) 25 - 0	~~246,512	50,243	3,464	0	3/03/- 3/808	- coquite	J 92,608	100000	C: 112,397	
1	300	Engineer Supervisor	VACANT	P-1	36,850	0	0		0	36,850	10,119		0	534	174	4,076	356	15,722	52,57.
050	557,585	Engineer Supervisor	SI SUB-TROIT	E346.23	56,850	String Ib	607270		0	36,850	5276010,119	411	100	1000000	174	4,076	ON 9" 386	15,722	52,57.
1	PLN	Planner III	VACANT	M-1	28,678		0			28,678	7,875		0	416	174	4,075	356	13,360	42,03
190%	5000	Sprendig rite 25% to Colors of Descrip-	SUB-TWAIL	7.500	28,478	C1000	500 HO	各民 沙田	S N - 650	28,678	HE X 24 510,875	CC 433	. 0	7 NO. 416	00.374	15-27-4,076	350	13,360	Fr 50-42,00
1	PLN	Planer IV	VACANT	74-1	31,084		0		0	31,064	8,530	433	0	450	174	4,076	356	14,050	45,11
all's	572.753	Plannier IV	SUB-Total	19545	31,064	- 0	0.00	20.7.0	224730	31,061	1,000 REALISTO	2-1284000	CONTRACTOR OF THE PARTY OF THE	A50	174	4.076	386	10/14,050	35 6 45:15
1	CAT	Word Processing Secretary II	VACANT	H-1	19.974		0		0	19,574	5,485	433	0	290	174	4,075	386	10,843	30,81
2		Word Processing Secretary II	VACANT	H-1	19,974	. 0			0	19,974	5,485		. 0	290	174	4,076	366	10,843	30,81
417E	Mark.	Word Processing Secretary R. F. / L. M.C.	SUB FREU	William Co	39,948	5-15-10 B	G Now 0	V. 200.00		39,945	10,070	366	A 100 0	579	348	10000000	772	27,687	61.63
ás:	ESPA:	TOTAL PERSONNEL REQUEST	GRAND TOTAL	KORTO	947,618	25.0		1:36.1		947,626	268,216	15,155	a a	13740	5,090	142,660	13,510	453,371	1,350,90

* night Offenntial / Hiszardous / Worker's Compunention / vet.

1/: FY 2000 (coursed) GovCours contribution for Life Insurance is 5174 per annum; Subject to change in FY 2011

FE3-15-2002 CIP 30 of 43 J.2006 REPORTMENTAL OF 0.5 92

[BBMR BD-1]

Government of Guam
DEPARTMENT OF PUBLIC WORKS
Fiscal Year 2011 Military Buildup
Division Budget Digest
[PROPOSED]
Infrastructure, Utilities and Transportation
Department of Public Works

Function: Department/Agency:

Department of Public Works

. . . .

DIVISION OF HIGHWAYS

		A	В	С	D	E	F
	1				Governor's	Request	
AS400	Appropriation Classification	FY 2010	FY 2010	FY 2011	FY 2011	FY 2011	FY 2011
Account	Appropriation Classification	Expenditures &	Authorized	General	Federal Match	Other	Total Rec
Code		Encumbrances	Level	Fund	Fund(s)	Fund I/	(C+D+E
				Lorenza de la constante de la			
	PERSONNEL SERVICES						
111	Regular Salaries/Increments	S0	50	50	\$0	\$513,770	\$513
112	Overtime/Special Pay	0	0	0	0	0	
113	Benefits	0	0	0	0	274,522	274
	TOTAL PERSONNEL SERVICES	\$0	\$0	SD	50	\$788,292	\$78
	OPERATIONS	7					
220	TRAVEL- Off-blandfl.ocal Milrage Reinfours.	So	50	SO	ea		
220	TRAVEL OR-Bisnet Seal Militage Reinstein.	30			\$0	50	
230	CONTRACTUAL SERVICES:	0	0	0	0	280,272	280
233	OFFICE SPACE RENTAL:	0	0	0	0	0	
240	SUPPLIES & MATERIALS:	0		0			
240	SUFFLIES & MATERIALS:	U	0		0	70,000	71
250	EQUIPMENT:	0	0	0	0	43,984	4.
270	WORKERS COMPENSATION:	0	0	0	0	0	
271	DRUG TESTING:	0	0	0	0	930	
280	SUB-RECIPIENT/SUBGRANT:	0	0	0	0	0	
290	MISCELLANEOUS:		0	0	0	0	-
	TOTAL OPERATIONS	S0	80	So	50	\$395,186	\$395
	UTILITIES	1					
361	Power	\$0	SO	50	50	\$0	1-1
362	Water/ Sewer	0	0	0	0	0	
363	Telephone/ Toll	0	0	0	6	0	
	TOTAL UTILITIES	50	50	50	So	SO	
				- 50	301	301	
450	CAPITAL OUTLAY	\$0	50	\$0	80	\$3,300,000	\$3,300
	TOTAL APPROPRIATIONS	50	\$8	\$0	\$0	\$4,483,477	\$4,483.
	1/ Specify Fund Source						
	FULL TIME EQUIVALENCIES (FTEs)						
	UNCLASSIFIED	0	0	0	0	0	
	CLASSIFIED		0	0	0	26	
1	TOTAL FTEs	0	0	0	0	26	

MILITARY BUDGET Hwy digest FEB-14-2010 HWY 40

DIVISION OF HIGHWAYS FISCAL YEAR 2011 MILITARY BUILDUP

BBMR96A

Schedule B- Contractual

	Quantity	Unit	Total	Funded in	FY 2010?
Item	Quantity	Price	Price	Yes	No
I-connect Radio Air-Time Services	20	42.80	10,272		
I-connect Radio Maintenance	20		10,000		
Office Equipment Maintenance			10,000		
Vehicle Maintenance & Repair			50,000		
Equipment Rentals			200,000		
	Total C	ontractual	280,272		

Schedule C - Supplies & Materials

		Unit	Total	Funded in	FY 2010?
Item	Quantity	Price	Price	Yes	No
General Office Materials and Supplies			10,000		
Safety Supplies/Materials (hard hats, vests, shoes,			50,000		
Uniforms [Pants/Shirts]			10,000		
To	ntal Sunnlies &	Materials	70,000		

Schedule D - Equipment

		Unit	Total	Funded in	FY 2010?
Item	Quantity	Price	Price	Yes	No
Desktop Computers	12	1999	\$ 23,988		
LaserJet Printer (Networking)	4	4999	19,996		
	Total	Equipment	\$ 43,984		

Schedule E - Miscellaneous

		Unit	Total		Funded in	FY 2010?
Item	Quantity	Price	Price		Yes	No
Drug Testing	26	35.75	\$	930		
	Total Mis	cellaneous	\$	930		

Schedule F - Capital Outlay

		Unit	Total	Funded in	FY 2010?
Item	Quantity	Price	Price	Yes	No
D8 Dozer w/Ripper	2	850,000	1,700,000		
Dump Trucks, 14 CY	8	200,000	1,600,000		
	Total Cap	ital Outlay	\$ 3,300,000		

MILITARY BUDGET HWY Capital

FEB-14-2010

n 91 c

GOVERNMENT OF GUAM FISCAL YEAR 2011 - MILITARY BUILDUP AGENCY STAFFING PATTERN [FROPOSED]

FUNCTIONAL AREA: Indirativation, Utilities and Transportation ACENCY: Dipartment of Public Works PROGRAM: Utilities of Sighways FUND: MRRay Building RATIO: 109%

_ [7	(A)	(B)	(C)	(0)	(E)	(F)	(G)	(11)	(1)	(1)	(K)	(L)	(M)	(N)	(0)	(P)	(0)	(R)	(8)
	1			Grade A		-		bune	trad			FIFSSI				Medical	Dental	Total Depertu	TOTAL.
	onition omber	Problem Vide	Name of Investment	Skip	Salary	Overlane	Special*	Dog 1	Arrost	(Petrocial)	Recirousest (2*26.3354)	Retire (DIDG) i	Roof Smarty 46.25(*D)	Medicare (1.699*0)	(Preside)	(Desire)	(Promism)	Kitri Q	I + E
, -	-	Administrative Assistant	VACANT	1-01	22,942	- 0	- 0	-	0	22,942	6,041	433	0	333		4,076	386	11,442	34,3
2		Administrative Assistant	VACANT	3-01	22,942	. 0	- 0		0	22,942	6,041	433	0	333	174	4,076	386	11,442	34,3
1	19.1	Administrative Assistant	Sub-Total		45,884	. 0	. 9	不 學 級	100	45,884	12,051				推測	31.11	MAG.	22,885	68,7
1	-	Administrative Aide	VACANT	F-01	17,635	ò	0			17,635	4,643		0	256	174		286	9,968	27,6
2		Administrative Aide	VACANT	F-01	17,635	0	0		0	17,635	4,643	433	0	256	174	4,076	386	9,968	27,4
2	114.	Administrativo Aida	Sub-Total		35,279	. 3	339			35,270	9,287	15.76	阿克拉		Oksta	200	a Picti	19,934	95,1
.1	\rightarrow	Naviacor I	VACANT	E-01	26,520		0		6	26,520	6,983	433	. 0	385	174	4,076	386	12,436	38,5
2		Engineer I	VACANT	L01	26,574	0	0		0	26,520	6,983	433	. 0	385	174	4,076	386	12,436	38,
2	5.77	Engineer 1	Seb-Total	1	\$3,040	. 0		高型		53,548	13,565	Selficial Control					211	24,673	77,
7	-	Land Aprel I	VACANT	G-01	18,723	0	0		0	18,723				271			386	10,279	28,
2	\neg	Land Agent I	VACANT	G-01	18,723	0			- 0	18,723		433		271			386		28,
3		Land Agent I	VACANT	G-01	18,723	- 0			0	18,723		433		271					28,
4		Laud Agent I	VACANT	G-01	18,723	0	0			18,723		433	0	271	174	4,076	386		28,
4	12	Land Agent I	Sub-Total	Name of	74,892	. 0		10.50	- 0	74,892	- 19,719			06953	CINE	2171	FL SE	41,161	118
1	-	Construction Inspector I	VACANT	1-01	21,385	0	- 6		0					310			386		32,
2		Crostruction Inspector I	VACANT	1-01	21,389	. 0		-	0	21,389	5,637			310					32,
3		Construction Inspector I	VACANT	1-01	21,385	. 0				21,389				310					32,
4		Construction Inspector I	VACANT	1-01	21,389	- 5				21,389	5,63			310	174				32
5		Construction Inspector I	VACANT	1-01	21,389	. 0	(21,389							386		32
6		Construction Inspector I	VACANT	1-01	21,389	0			- 0	21,389	5,63	433	0	310	174	4,076	386	-	
	1.3.	Construction Inspector I	Sub-Total	100	128,334		. 0	25.00		128,334	33,790	100	金型子会	S. S. C. E.	E-20.2	1016 JA	124 50	66,066	194

JADES REPORTMUTARY BUDGET HWY SP Highways 42 of 43 PEB-14-2010

FERCIPONAL AREA: Infrastructure, Utilities and Transportation AGENCY: Department of Public Works PROGRAM: Devision of Highways FUND: Milliney Buildings RATIO: 18995

		AND DESCRIPTION OF THE PARTY OF	Algerty the		PROPERTY.	WEAR	0.9659	V255-325	C-GFON!	1						fact by E	speckoept :		
	89990	Replicate the section	(C)	(D)	(F)	(F)	(G)	(H)	(1)	(7)	(K)	(L)	(M)	(N)	(0)	(P)	(0)	(R)	(\$)
_	(A)	(B)	(0)	107	4-7	(1)	1					BENE	NTS			-			
	Position	Presiden Title	Name of Incumbros	Grade &	Nahry	Overtime	Special*	Incres	meni	(E+F)G+D		Ratio (DDD)		Medicare	126	Model (Provine)	(Preside)	Total Benefits E ton O	TOTAL 1+X
_	Number							Des	Assort	Soltonal	(2°35.30°N)	(State-1995)	(4.2541)	0.459(2)	(Person)	(Francisco	(printesse)	Total C	
-										17,635		413	- 0	256	174	4,076	386	9,968	27,9
1		Euripment Operator 1	VACANT	F-01	17,635	- 0	0				4,643	433		256		4.076	386	9,968	27,60
2		Equipment Operator I	VACANT	F-01	17,635	0	0		. 0	17,635	4,643	433		256			386		27,60
3	_	Equipment Opurator I	VACANT	F-01	17,635	0	4	-	- 0	17,635		433		256		4,076	386		27,60
4		Equipment Operator I	VACANT	F-01	17,635			-		17,635				256		4,076	386	9,968	27,60
-		Equipment Operator I	VACANT	F-01	17,635	0	0		0	17,635							346		27,60
÷		Figuspiaeut Operator I	VACANT	F-01	17,635	- 6			. 0	17,635	4,643	433	- 0	256		4,076	316		27,60
-		Equipment Operator I	VACANT	F-01	17,635					17,635	4,643	433	- 0	256			386		27,60
<u>+</u>	-	Equipment Operator I	VACANT	F-01	17,635		4	-		17,635		433	0						27,60
-		Equipment Operator I	VACANT '	F-01	17,635	-	9			17,635	4,643	433		256			386	9,968	27,00
10		Equipment Operator 1	VACANT	F-01	17,635	(0 (1		17,635	4,643	433	0	256	174	4,076	380	2320000	27,60
10	435	Equipment Operator I	Sub-Total	545	\$76,350	100	100	5		174,350	46,433			11000	DET.	940	30	99,681	276,03
_	Sant 1			77508747		200.000	10000	0.02-0.26	100,000	C300 330	134,200	Sel 855	253885	24524C)	187200	234280	2150	274,522	788,25
26	101	AL PERSONNEL REQUEST	GRAND TOTAL		\$13,770	223	5873		3000	313,770	135,276	RESERVE OF		(1)	5164	RS 9886	,	1000	2451

JODES REPORTMELITARY BUDGET HWY SP

FC6-14-2013



Government of Guam

Department of Public Works

Comments from Divisions

by DEIS Volume



DEPARTMENT OF PUBLIC WORKS

Draft Environmental Impact Statement (DEIS)

VOLUME 1, VOLUME 9

DBB Kyport #1

DEIS REPORT - DPW ADMIN - VOL 1 & 9 JAN-5-2010





Lawrence P. Perez Director Andrew S. Leon Gorles Deputy Director

Memorandum

January 5, 2010

To:

Director

Deputy Director
All Division Managers

From:

Controller

Subject:

Draft Environmental Impact Statements (DEIS)

Buenas yan Hafa Adai!

Transmitted herewith for your review and action are DPW's response to the DEIS related to the Executive Summary, Readers' Guide, Volume 1 and 9. The attached responses were received from the following Division:

- Administration
- **Building Construction & Facilities Maintenance**
- Transportation Maintenance
- Office of Highway Safety

Should there be any questions regarding this memorandum, please feel free to contact me at 646-3154 or the Fiscal office at 646-3231.

Un Dangkulo na Si Yu'os Maase.

Attachments

542 North Marine Corps Drive, Tamuning Guam 98913 ● Tel (671) 646-3131 ● Fax (671) 649-6178

VOL 1, VOL 9

ADMIN - Page 1 of 54

DPW Deadlines DEIS

Source: Director's email

SUBJECT	DEADLINE	TASKS
Impacts Comments	December 31, 2009	Summary, Vol. 1 & Vol. 9 & Reader's Guide
Impacts Comments	8-Jan-10	Vol. 2, Vol. 3
Impacts Comments	15-Jan-10	Vol. 4, Vol. 5
Impacts Comments	22-Jan-10	Vol. 6, Vol. 7
Impacts Comments	29-Jan-10	Vol. 8
Impacts Comments	5-Feb-10	Submit all Impacts comments
Impects Comments	12-Feb-10	DPW will have electonically - submitted of all comment to the DEIS to the JGPO;

PUBLIC HEARINGS

January 7th, 5-7 PM Open House & / 7-9PM Formal Hearing @ Southern High January 9th, 1-3 PM Open House & / 3-5 PM Formal Hearing @ UOG Fleidhouse January 1th, 5-7 PM Open House & / 7-9 PM Formal Hearing @ Yigo Gymnasium January 12th, 5-7 PM Open House & / 7-9 PM Formal Hearing @ Dededo,Okkodo High

Legislature Hearing

Senator Ada 1/28/10 Briefing & Presentation

Briefing to Gov 1/13/10 Briefing

ADMIN - Page 2 of 54

Dec 21, 2009 EMAIL to all Managers:

Division Managers, et.al.,

Now that you've had ample time to briefly peruse through the subject DEIS (www.guambuildupeis.us), the following shall be your respective next steps ...

You are to provide reviews-impacts-comments on the DEIS with the following priority & perspective ...

1st & Absolute - On how it impacts your DPW Divisional fiduciary,

2nd & Preferred - On how it impacts the GovGuam, and

3rd & Optional - On how it impacts you as a Citizen;

By NLT the COB of 12/31/09, you are to submit your reviews-impacts-comments on the following ...

http://www.guambuildupeis.us/documents_store/summary/DEIS

Nov09.pdf,

http://www.guambuildupeis.us/documents_store/summary/DEIS

Nov09.pdf,

http://www.guambuildupeis.us/documents_store

Nov09.pdf,

http://www.guambuildupeis.us/documents_store

Nov09.pdf

For further exposure to & a better understanding of the DEIS, you are to attend any one of the following Public Hearings ...

January 7th, 5-7pm Open House &/ 7-9pm Formal Hearing @ Southern High;

January 9th, 1-3pm Open House &/ 3-5pm Formal Hearing @ UOG Fieldhouse;

January 11th, 5-7pm Open House &/ 7-9pm Formal Hearing @ Yigo Gymnasium;

January 12th, 5-7pm Open House &/ 7-9pm Formal Hearing @ Okkodo High;

By NLT the COB of <u>01/08/10</u>, you are to submit your reviews-impacts-comments on the following ... http://www.guambuildupeis.us/documents_store/volume_2/DEIS_Vol_2-USMC_Guam_Nov09.pdf, http://www.guambuildupeis.us/documents_store/volume_3/DEIS_Vol_3-USMC_Tinian_Nov09.pdf;

VOL 1, VOL 9

ADMIN - Page 3 of 54

By NLT the COB of 01/15/10, you are to submit your reviews-impacts-comments on the following ... http://www.guambuildupeis.us/documents_store/volume_4/DEIS_Voi_4-Aircraft_Carrier_Nov09.pdf, http://www.guambuildupeis.us/documents_store/volume_5/DEIS_Voi_5-AMDTF_Nov09.pdf;

By NLT the COB of <u>01/22/10</u>, you are to submit your reviews-impacts-comments on the following ... http://www.guambuildupeis.us/documents_store/volume_6/DEIS_Vol_6-Related_Nov09.pdf, http://www.guambuildupeis.us/documents_store/volume_7/DEIS_Vol_7-MitandIm_Nov09.pdf;

By NLT the COB of <u>01/29/10</u>, you are to submit your reviews-impacts-comments on the following ... http://www.guambuildupeis.us/documents_store/volume_8/DEIS_Vol_8-Addl_NEPA_Nov09.pdf, the Appendices A through L of Volume No. 9 (http://www.guambuildupeis.us/documents);

By NLT the COB of 02/05/10, you are to submit ALL of your reviews-impacts-comments on ALL of the above-mentioned to the DPW's primary, Point-of-Contact & Controller, Mrs. Arleen Pierce;

By NLT the COB of <u>02/12/10</u>, the DPW will have electronically-submitted any & all of your comments of the DEIS to the JGPO; and

Please know that not all Volumes of the DEIS will generate impacts-comments from your reading, however it is imperative that you respectively state it as such (i.e., "No Adverse Impact").

I trust that you understand the magnitude of this Guam Buildup, that you recognize the importance of commenting on this DEIS document, and that you will take this tasking very seriously as representatives of our Island, our Government & our People ... Anything short would be irresponsible, negligent and insubordinate.

Thank you,

Lawrence 'Larry' P. Perez

P.O. Box 11913, Tamuning, Guam 96931

671.649.3791 (Work)

671.482.7373 (Cell)

VOL 1, VOL 9

ADMIN - Page 4 of 54

DPW- Division of Administration DEIS – Overall Impact Statement

J-021-006

Impact on the mandates of DPW due to the military buildup to begin from Year 2010 to 2014 (move of 8,000 marines, dependents and logistic support) will be costs of operations, planning, implementation, coordination maintenance and continuity of all DPW's shared responsibilities on the construction and planning activities relatives to the military buildup. There will be a significant impact within the department's mission due to the public's demands as the population increases due to the military move. Moreover, our operating costs and funding levels will also increase as it is highly correlated to the increase in productivity levels.

Below are the highlights in a nutshell:

Island -wide Infrastructure:

Highway:

Roadway/Highways/Village Streets (primary/secondary/arterial roads)

Infrastructure:

Bridges/Ponding Basins/Land Acquisition/Condemnations/Sidewalks/Bus Shelters

Capital Improvement Projects:

Professional/Technical/Engineer/Architects/Construction/Inspection support for Government infrastructure projects

· Public safety:

Roads/Highways Safety (signs/marking/signal/traffic signs/street lights/guardrails/roadways clearing and maintenance)

Construction/Building Safety (building permits/inspection/building safety code/flooding hazard mitigation assistance)

· Public Health:

Solid Waste Management (residential/commercial trash/white goods/tires/metallic/others/emergency debris cleanup) - Environmental concerns

VOL 1, VOL 9 ADMIN - Page 5 of 54

Guam and CNMI Military Relocation DEIS/OEIS

J-021-006

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process. This information becomes part of the Final EIS and is evaluated when DoD prepares the Final EIS and issues a Record of Decision at the end of the National Environmental Policy Act (NEPA) process.

· Transportation:

Public transportation (island-wide bussing of pupils/students/other emergency community and mass transit for public services)

• Government - Wide Support:

Public Support (building/infrastructures/recreation facilities/emergency community assistance and maintenance)

Resources, administration, maintenance support services, repairs, construction services and custodial work for government buildings and facilities

• DPW Operating Costs and Revenue Enhancement:

Personnel/Operating Costs (increase in number of personnel, increase in Equipment & Capital-Outlay, and increase in Contractual Services for expert Consultants and/or outsourcing)

• Budgetary Funding Sources:

Budget increase to meet direct project cost. DPW funding sources consist of the following fund type:

- o General Funds-from Legislature's General Fund appropriation
- o Guam Highway Funds-from liquid fuel taxes
- o DPW Building & Design Fund-from building fees
- o Abandoned Vehicle Streetlights Fund-Motor Vehicle license fees
- o Solid Waste Fund-Tipping Fees
- Federal Grants In Aide FGIA (FHWA, OHS, USDOI) Federal Grants Award
- Workers Compensation from General Fund appropriation

VOL 1, VOL 9 ADMIN - Page 6 of 54

DPW DEIS – Overall Review Notes 12/31/09

J-021-007

- 1. How much is FHWA & Us DOD going to fund our Projects?
 - A.) How much will our construction cost?
 - B.) Will the cash be received instantly or will it be in the form of drawdown? If drawdowns are used, will it be in electronic EFT form so that cash will be transferred quickly to Govguam?
 - C.) Do we have the necessary grant awards in place?
- 2. Does the 2030 Highway master plan include the Military build up, as part of its original (population growth) assumptions?
- 3. Need technical advice & review by specialist.
 - GBB for Solid Waste
 - Parsons for Roadway Projects
 - NEPA for all Environmental concerns
 - Legal assistance
 - Other professionals

VOL 1, VOL 9

ADMIN - Page 7 of 54

Guam and CNMI Military Relocation DEIS/OEIS

J-021-007

Thank you for your comment.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The DoD, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to assist the Government of Guam in seeking funds for projects that are not eligible for the DAR program.

The drawdown of funds for DAR projects will be the same as a regular federal-aid highway project.

The projects identified in the FEIS were included in the 2030 GTP.

J-021-008

- 4. Breakdown of the 58 Roadway projects
 - Costs per Projects
 - Project name
 - Scope
 - Funding source
 - Maps

J-021-009

5. Volume Nine Appendices: does not include a cost Analysis

2

VOL 1, VOL 9

ADMIN - Page 8 of 54

J-021-008

Thank you for your comment. The DOD and FHWA will continue to work with the DPW as the project details are developed.

J-021-009

Thank you for your comment. A cost analysis is not part of the EIS.

DEIS - DPW Highlights & Issues

Volume # / Section	Page	Description	Issues/Review notes
Volume 1 Land,Roadways, and Submerged Land use	ES-34	Construction (Guam only) SI-M Roadways construction on D14Guam would have a significant adverse impact on Roadways use during construction. Mitigation would include a Traffic Management Plan implemented by the Federal Highway Administration that would identify measures to reduce impacts during the construction period. Operation SI-M (Guam) Federal acquisition of land for main cantonment, firing ranges, and roadway improvement on Guam. Mitigation would include long-term leases of the properly instead of purchase. SI (Trilan) Agricultural/grazing permits within the Tirlan Lease Back Area would be terminated, causeing significant impact on consistency	1
Volume 1 3.6.5 Roadway Projects	(3-26)	with the Farmland Protaction Policy Act of 1981. The permits are subject to termination at military discretion. Individual projects have been identified from recent transportation and traffic studies on the island of Guam. These consist of 43 Guam Road Network (GRN) (off base) projects and 15 intersection improvement projects at military access points (MAPs) (i.e.,gates). The 43 GRN (off-base) projects are composed of six types of roadway improvements: - Intersection improvement Projects - Bridge replacement projects (involving five Bridges) - Pavement strengthening (combined with roadways widening at some locations) - Roadway relocation (Route 15)	2 3 4

1 of 2

Volume # / Section	Page	Description	Issues & Reviw note:
Volume # / Section	(3.6.4)	Pescription Roadway Widering Roadway Widering Roadway Widering Roadway Widering Roadway Widering Roadway Roadway Roadway Roadway R	3

2 of

admir. Dinn

DEIS REPORT - DPW ADMIN - VOL 1 & 9 VAN-5-2010

J-021-010

- What impact is expected with the military build-ups?
- How is it going to benefit the island?
- Are the roads going to minimize and utilize by military only?
- What routes are the military going to use for transportation for there machine and artilleries?
- How do we know if the money given by the US is going to be use for the structure needed?
- Is the governor and senators going to play a role is this build-up?

J-021-011

- Route 15 after passing Andersen South to Yigo highway site before the Yigo drag strip need to be paved for parking lots and streetlights for safety measures.
- Route 17 cross island road also a hiking site to Sigua and Tarzan Falls same projects needed as route 15.

ADMIN - Page 11 of 54

VOL 1, VOL 9

J-021-010

Thank you for your comment. The DEIS analyzes a number of disciplinary subjects identifying the potential impacts of the proposed action. In many cases, the impacts are less than significant; however, many of the "benefits" attributable to the proposed action are based on jobs and money (from construction and operational expenditure) that will flow into the economy. That specific information can be found in the Socioeconomic Impact Assessment Study (SIAS) that is Appendix F of Volume 9 in the EIS as well as the socioeconomic chapters of volumes 2 through 7. Jobs analysis was based on the number of dollars estimated to enter the Guam economy as a result of the proposed action. Overall, at the 2014 peak of construction and beginning of operations, the civilian labor force demand with the proposed action is 75% higher than it otherwise would have been without the project. By 2020, the difference declines to 12%. Analysis took into account historical information of people arriving on Guam from other areas (such as the Philippines and Freely Associated States of Micronesia) in search of jobs, to determine the number of new jobs generated by the proposed action that would go to Guam residents. Overall, analysis indicated that at the 2014 construction peak, Guam residents are expected to capture approximately 2,566 jobs and offisland workers would take 15,157 jobs. By 2020, the number of these jobs filled by Guam residents would decrease to 2,211 jobs, and offisland worker jobs would decrease to 3,935 jobs. It should be noted that the jobs that Guam residents would fill are based on the available supply of qualified workers. That is, it is anticipated that the new jobs would capture the amount of qualified workers on Guam for those positions. Economic benefits would also occur through the circulation of construction and operational dollars spent on Guam and the multiplier affect (recirculation of money) in the Guam economy. The economic benefit also consists of revenue to the government of Guam in form of taxes, user fees, and permits and approvals. Another area where benefit is seen is that the local businesses would be able to sell their goods and services during both

ENVIRONMENTAL IMPACT STATEMENT GUAM & CNMI MILITARY RELOCATION

BUILDING CONSTRUCTION & FACILITY DIVISION (BCFM) DEPARTMENT OF PUBLIC WORKS (DPW)

To determine the impact of the influx of military buildup, we must realistically see a clear picture of our existing conditions and needs, then, we can proceed to accurately access and evaluate the actual impact of increase personnel and activities here in our island. The following assessment reviews are provided:

1) PURPOSE & NEEDS

A. PURPOSE:

BCFM's is committed to provide quality, cost-effective maintenance, repairs, modifications, and upgrades to "non-autonomous agencies" of the Government of Guam, prioritizing the Governor's Office- Adelup Complex, Government House, Civil Defense, Data Processing-Department of Administration, and Department of Public Works. Our primary mission is to ensure existing buildings and its facilities and equipment are in a safe, operable, and hazard-free environment to using agency in meeting their services to the public. We encourage continual functionality, efficiency and sustainability of the government buildings in its daily operation providing responsive maintenance and repairs in maximize longevity and usage with special emphasis to building codes, regulations and safety requirements

B. NEEDS:

 GOVGUAM BUILDING LISTING: the latest official assessment of our Government of Guam Building Inventory was conducted by Professional Engineers back in 1983. The upgrading of this pertinent document has been deterred by the lack of engineers and specialized skilled personnel. Only last year, we were able to secure an engineer who has finally started on this special project to upgrade the inventory.

This inventory is VITAL in securing the true conditions of the building and facilities to determine the hazardness and the maintenance repair cost needed funding request. This division has been sadly left unfunded legislatively of manpower support from 180 in 1983 down to a mere 18 workers inclusive the leaders and supervisors to present.

VOL 1, VOL 9 ADMIN - Page 12 of 54

Guam and CNMI Military Relocation DEIS/OEIS

the construction and operational periods. Volume 6 of the DEIS describes the existing utilities and infrastructures on Guam as well as the proposed actions that would provide the capacity needed for the additional population. Each utility is covered and for each one, the preferred actions (to achieve adequate capacity) are identified. In some cases, additional capacity with better treatment (i.e., wastewater) is being proposed. Roadways essential for the buildup would be improved, widened, and some bridges replaced by funds provided under the Defense Access Road (DAR) program. The details of the proposed actions are contained in Chapters 2 of Volumes 2 through 6. Volume 6 addresses use and improvements to roadways. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

J-021-011

Thank you for your comment. Safety and operational improvements such as these will be considered in the design of improvements along Route 15. Improvements to Route 17 are outside the scope of the DEIS.

FUNDING: BCFM is currently operating on an On-Call basis because of limited appropriated funds and shortage of manpower. Each year the vacancies from exited employees were never given legislative funding to replace the personnel. The work demands continue to increase but the labor resources are depleted. Thus, personnel are inequitably tasked beyond their performance standards. The quality of work is provided but the workload demands continue to rise and cannot be met at this rate. The rippling effect of this scenario is that we currently do not provide preventive maintenance and it opens way to unsafe conditions which ultimately are more costly because the conditions worsen from of the delay of the project.

B. PROJECT ALTERNATIVES:

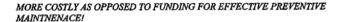
DEFERRED MAINTENANCE: Deferred maintenance is the practice of postponing maintenance activities such as repairs on both real property (i.e. <u>infrastructure</u>) and personal property (i.e. <u>machinery</u>) in order to save costs, meet budget funding levels, or realign available budget monies. The failure to perform Generally, a policy of continued deferred maintenance may result in higher costs, asset failure, and in some cases, health and safety implications.

The accounting standard-setter for the U.S. Government (www.FASAB.gov) in its Statement of Federal Financial Accounting Standard 6, defines deferred maintenance in this way, "Deferred maintenance" is maintenance that was not performed when it should have been or was scheduled to be and which, therefore, is put off or delayed for a future period. For purposes of this standard, maintenance is described as the act of keeping fixed assets in acceptable condition. It includes preventive maintenance, normal repairs, replacement of parts and structural components, and other activities needed to preserve the asset so that it continues to provide acceptable services and achieves its expected life. Maintenance excludes activities aimed at expanding the capacity of an asset or otherwise upgrading it to serve needs different from, or significantly greater than, those originally intended.

The management of maintenance activities has been a long-neglected field. It has become increasingly evident that maintenance can no longer be ignored; it must be engineered properly. Legislative body and authority are struggling with the ailing money resource and are short sighted as seen for the past decades; they consider maintenance a "low priority" and immediately cut cost as their first solution. What is not fully realized is that the results are showing up in our schools, government buildings, and in drastic increase in hazardous situations... but more importantly, the mentality of waiting for an emergency to occur and declaring a "STATE OF EMERGENCY" to generate the funds immediately is

ADMIN - Page 13 of 54

VOL 1, VOL 9



- A. BCFM has a backlog of short and long term capital improvement projects at the cost of @2 Million that were accessed and yet to be addressed.

 These ailing projects that are deteriorating rapidly costing our government more.
- B. ANNUAL EMERGENCY MAINTENANCE REPAIRS FOR DEPARTMENT OF EDUCATION (DOE) BACKLOG! Also known as the DOE School Readiness Program. The Governor appointed a School Recovery Task Force to ensure that all schools were in readiness condition safe and operable for the opening of the school year. BCFM Division is annually tasked to spear-head the department's involvement providing specialized skilled work to address various emergency safety repairs as cited by PHSS Environmental Division. Our assistant yearly to DOE continue to cause backlog in our operations. Again, the issue on the lack of resources are to be ascertained.

IMPACT SUMMARY

J-021-012

THE MAJOR IMPACT to the proposed military influx IS FUNDING& SAFETY! In preparation to accommodate the demands of the relocation, funding should be provided to bring to PAR the already identified hazardous projects that are still lingering to date. Continue neglect is not an option but to immediate execute SAFETY BEFORE the mass transition of the estimated THOUSANDS of bodies that is expected to come. The influx will rapidly increase the wear and tear of government buildings and facilities that are to provide services to them.

Further details and assessments of the "draft" DEIS will be forthcoming!

VOL 1, VOL 9 ADMIN - Page 14 of 54

Guam and CNMI Military Relocation DEIS/OEIS

J-021-012

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.





OFFICE OF HIGHWAY SAFETY REVIEW & COMMENTS Draft Environmental Impact Statement (DEIS) First Report

Executive Summary - Overall

Impacts

J-021-013

- Increase of educational public service announcements, walking billboards to the military families, especially to the families who will be living off-base on Guam's highway safety laws, i.e. seatbelt law, DUI, texting law
- Increase of NHTSA funding to cover the need for additional overtime enforcement activities with our Highway Safety Partners – Guam Police Department Highway Patrol and GIAA Airport Police.
- Network with military personnel in engaging outreach highway safety activities at the schools and day care centers.
- d. The construction and building of pedestrian and bicycle sidewalks will enforce and justify the increase of funding to promote and educate safety awareness to the community that is indicated on the 2030 Highway Master Plan.
- II. Volume I Overview

"No Adverse Impact"

III. Volume 9

"No Adverse Impact"

542 North Marine Drive, Tamuning Guam 96913 • Tel (671) 646-3131 / 3259 • Fax (671) 649-6178

Guam and CNMI Military Relocation DEIS/OEIS

J-021-013

Thank you for your comment.



Arleen Pierce <arleen.pierce@dpw.guam.gov>

JGPO's DEIS ... Reviews, Comments, Public Hearings & **Submissions**

Julie Mangiona <julie.mangiona@dpw.guam.gov> Wed, Dec 30, 2009 at 4: To: Arleen Pierce <arleen.pierce@dpw.guam.gov>, Lawrence Perez <lawrence.perez@dpw.guam.gov> Co: Franklin Taitano franklin.taitano@dpw.guam.gov>, Julie Mangiona <julie.mangiona@dpw.guam.gov> Wed, Dec 30, 2009 at 4:44 PM

Hi Arlene,

We won't be able to complete our reports concerning the forwarded below. We are awaiting on GDOE's compilation on estimated total number of students for the upcoming military build-up. The Superintendent of GDOE is off-island at this time and she won't be back until Monday, January 04, 2010. If possible, we can submit our reports by Tuesday, January 05, 2010.

Thanks:) AND HAPPY NEW YEAR TO YOU AND YOURS.

JULIE MANGLONA

[Quoted text hidden]

Julie N. Manglona Division of Bus Operations 646-3166 649-4587 (Fax)

http://mail.google.com/a/dow.guam.gov/?ui=2&ik=e42cff53d8&view=nt&search=inbox 12/31/2009

The Guam Department of Public Works Mail - JGPO's DEIS ... Reviews, Comments, Pub... Page 1 of 1



Arleen Pierce <arleen.pierce@dpw.guam.gov>

JGPO's DEIS ... Reviews, Comments, Public Hearings & Submissions

Paul Cepeda <paul.cepeda@dpw.guam.gov>
To: Arleen Pierce <arleen.pierce@dpw.guam.gov>
Arlene,
I have read part of the DEIS and at this point I have no comments.

Paul

[Ouoled text hidden]



DEPARTMENT OF PUBLIC WORKS

Draft Environmental Impact Statement (DEIS)

VOLUME 2, VOLUME 3





Lawrence P. Perez Director Indrew S. Leon Gorier Deputy Directo

January 12, 2010

Memorandum

To:

Director

Deputy Director All Division Managers

From:

Arleen U. Pierce, Controller

Ale U. Pri

Subject:

Draft Environmental Impact Statement (DEIS)

(Report number 2)

Buenas yan Hafa Adai!

Transmitted herewith for your review and action are DPW's response to the DEIS related to the Executive Summary, Readers' Guide, Volume 2 and 3. The attached responses were received from the following divisions:

- Administration
- Building Construction & Facilities Maintenance
- Transportation Maintenance
- Office of Highway Safety

Should there be any questions regarding this memorandum,, please feel free to contact me at 646-3154 or the Fiscal office at 646-3231.

Un Dangkulo na Si Yu'os Maase.

Attachments

DEIS REPORT - DPW ADMIN - VOL 1 & 9

DPW Division of Administration DEIS – Overall Review Notes 1/8/10

J-021-014

1. LAND

Land acquisitions from private owners will be affected if the military wishes to develop more projects that require more land. Acquisition, land exchange or long term lease of land would be ideal rather than imminent domain without some form of compensation.

J-021-015

2. ENVIRONMENTAL CONCERNS RELATED TO POLLUTION & TOXINS &

Environmental concerns must be noted related to air, land and sea. The air we breathe, the plants livestock and fish, we eat. Coral will also affect from the major dredging for a new wharf. The environmental will all be contaminated from the ammunition projects and wharf activities. The noise related to construction and the ammunition will also affect the public.

J-021-016

3. TRAFFIC

Traffic will be affected through out the island not especially in the northern end (Andy South). Traffic will also include various construction vehicles including heavy military jeeps and other motor carrier. Road projects have been addressed within the DEIS.

J-021-017

4. SOLID WASTE MANAGEMENT

Waste Management will need to be reconfigured into the existing landfill plans to accommodate the huge influx of military and their dependents population. This will require a more specialized expert to review for reasonableness and adequacy.

J-021-018

5. UTILITIES, WATER, WASTEWATER, POWER & OTHER INFRASTRUCTURE

Customer demands for water and power will be tremendously increase due to the influx of the user population. DEIS has addressed some of the concern.

J-021-019

6. PUBLIC SAFETY

The Crime rates will increase due to the military population. The type of crimes include rape, theft, riots, human trafficking and dividing the influence of drugs and or alcohol will also be a huge factor for accidents. The increase in public safety to include border patrols around our harbor for illegal immigrants or drug smuggling will also be needed.

VOL 2, VOL 3

ADMIN - Page 2 of 38

J-021-014

Thank you for your comment. While the government is authorized to acquire property through its powers of eminent domain (5th Amendment to the U.S. Constitution); the Department of the Navy plans to acquire real estate on Guam by direct purchase based on owner negotiations. Other options include long-term lease or easement agreements.

The Department of Defense (DoD) acknowledges that the issue of land acquisition is a complex and sensitive one. The DoD will negotiate with each property owner as required by the applicable federal laws and regulations. Negotiations with landowners have not yet begun because a final decision on whether or not land will need to be acquired will not be made until the Record of Decision. Part of the land acquisition process is determining suitable replacement space for affected landowners and compensation for improvements. If and when negotiations with landowners begin, detailed acquisition procedures would be developed and implemented. While the government is authorized to acquire property through its powers of eminent domain it has been the consistent peacetime policy of the Department of the Navy to acquire real estate by direct purchase based on owner negotiations. Negotiations, conflicts, compensation, and other issues may arise; these are covered by the acquisition processes and, if required, by the courts.

J-021-015

The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including fuels, lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, PCBs, nuclear materials, and other hazardous substances. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and substituting them for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g.,

DEIS REPORT - DPW ADMIN - VOL 1 & 9

J-021-020

7. HOSPITALS & CLINICS

Hospital beds and health care & public health professionals will be in demand due to the influx of the outside labor of immigrants (construction related work force) population.

8. SCHOOLS

Increase in the student population will be affected. This will include all grade levels including higher education (college level).

9. LABOR FORCE

Increase in the job market in both the private and public sectors. GovGuam will need to hire more staff in the areas of health care, law enforcement and first responders, teachers, engineer inspections, safety and security personnel.

J-021-021

10. PUBLIC TRANSPORTATION, AIRPORT AND PORTS

The need for reliable mass ground transportation is required. In addition, the airport and the commercial ports must also be expanded due to the increase in population for travelers and for all commodities being shipped into Guam for public consumption or for use.

J-021-022

11. TOURIST INDUSTRY

The tourist industry will be affected as the population as the population increases. This means more people waiting in long lines in restaurant and other recreational facility and high occupancy rates for all hotels and airline carriers.

12. REVENUES

DPW should increase our existing fees so that we can sustain our needs related to Labor Cost & other operational costs. In additional, bond funds related to CIP and infrastructure projects should be made available as the bond market will be interested in Guam's military growth and investments. We should adopt an aggressive revenue fees (or establish a new legislation to increase DPW's budget) by enacting legislation for the following DPW inflow:

- Liquid Fuel Taxes
- · Motor Vehicles License Fees
- Building, Design & Permit Fees
- Solid Waste Tipping Fees
- Bus Fares (Field Trips)
- Bond Funds for CIP, Schools and Infrastructure projects
- . Increase our Federal Grant Awards for projects and admin fees from
 - USDOT
 - FHWA
 - NHTSA
 - USDOI

VOL 2 VOL 3 ADMIN - Page 3 of 38

RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and regulations. DoD has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage, spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are fully described in the EIS document (Volume 7). Note that BMPs and SOPs are not considered "mitigation measures" because these actions are being done as part of existing laws and regulations and not as part of new "mitigation". However, if a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are mitigated quickly and effectively. In many cases, part of remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. In fact, many such clean-up efforts are underway. As part of the clean-up process, the DoD provides various opportunities for the general public. stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs) where interested party questions and concerns may be communicated. These comprehensive actions (e.g., BMPs, SOPs, etc.) will protect public health,

The Guam Department of Public Works Mail - Division's Impact on Military Building

Page 1 of 4



Arleen Pierce <arleen.pierce@dpw.guam.gov>

Division's Impact on Military Building

Barbara Purugganan <barbara.purugganan@dpw.guam.gov>

Thu, Jan 7, 2010 at 10:58

To: "Lawrence 'Larry' P. Perez" <zerepyrral@yahoo.com>, Arleen Pierce <arleen.pierce@dpw.guam.gov> Cc: Dominic G Muna <dominic.muna@dpw.guam.gov>, Oscar Yanger <oscar.yanger@dpw.guam.gov>, Mona Duenas <mona.duenas@dpw.guam.gov>, Roselily Cruz <roselily.cruz@dpw.guam.gov>, Barbara Purugganan <barbara.purugganan@dpw.guam.gov>

January 08, 2010

MEMORANDUM

TO:

Director, DPW

Arlene Pierce, Controller DPW

FROM:

Dominic Muna, Manager

Building Construction & Facility Maintenance

SUBJECT:

Division's Impact on Military Building
"Draft on Environment Impact Statement

Buenas Yan Hafa Adai! Herewith impacts and comments are provided on the brief review of Volume 2 and 3 of subject draft as per your memo request dated 12/21/09 as due today.

In regards to Volume 2 on the Marine Corps Relocation - Guam, please reference the attached. In respect to Volume 3 on Marine Corps Relocation - Training on Tinian, we have no comments for we find it not directly applicable to our division's operation.

DMUNA/BCPURUGGANAN/MWILSON/bcp

Cc: Manager, MA, Engr, Supt., AO

Chapter 1.2 PURPOSE AND NEED

As discussed in Volume 1, the overarching purpose for the proposed actions is to locate U.S. military forces to meet international agreement and treaty requirements and to fulfill U.S. national

httm://mail.google.com/a/dnw.mam.gov/?wi-?&rib=a/?aff52A& Laview-nt Lecearch-inhov & 1/11/2010

welfare, and the environment from adverse impacts associated with the use of hazardous substances.

J-021-016

Thank you for your comment.

J-021-017

Comment noted.

J-021-018

Thank you for your comment. The final EIS has been modified to include more concerns regarding water. In addition, meetings between DoD and GWA are bearing fruit in the effort to seek solutions to the water system challenges. Meetings with GPA have also been fruitful and have resulted in concurrence on power solutions.

J-021-019

Thank you for your comment. There are many reasons why the Marines (about half) are being moved from Okinawa. This discussion is provided in section 3.5.2 of the Socioeconomic Impact Assessment Study (SIAS) that is in Appendix F, Volume 9 of the Draft EIS. Serious crimes by military personnel in Okinawa are committed at a lower rate than the overall civilian population in Okinawa, despite reports to the contrary. Many serious crimes are based on singular incidents that are reported multiple times so that it appears to be multiple incidents.

The impacts of crimes on Guam are discussed in Volume 2 of the FEIS. As noted in the SIAS: "A critical distinction when analyzing crime impacts is between the total numbers of crimes ("volume of crime") and the actual crime rate (numbers divided by population). Population increases always bring with them increases in the volume of crime, but the crime rate would increase only if new populations are disproportionately likely

The Guam Department of Public Works Mail - Division's Impact on Military Building

Page 2 of 4

security policy requirements to provide mutual defense, deter aggression, and dissuade coercion in the Western Pacific Region. The need for the proposed actions is to meet the following criteria based on U.S. policy, international agreements, and treaties:

Significantly: The release of more than 11,000 pages of documents of the Environmental Impact State "DRAFT" has brought much more light to the island's people. The document opens eyes as to the huge impact as we begin to perceive and/or understand that the buildup's proposed scope is way beyond the initial public realm and now realization that paints a true picture of the proposal is way bigger and something to reckon with. The overarching purpose for this proposed action is that the overall benefit to provide mutual defense plainly justifies the move because of our stratigic location and our need for protection during the height of terrorism and war.... BUT the island must be FUNDED to accommodate the anticipated rapid buildup and its rippling effect. The influx of an estimated 90,000 people is one third of our current population which compared to growth that takes 20 years to occur without the buildup. Of course, many of the increase will be transient workers but the number of additional people will stay as drawn to economic prospects.

To date there has been approved funding but is not significant as we continue to study the impact at this time. We agree that we need to continue to press the federal government to work collaboratively with us to ensure that we receive financial assistance necessary for the impact and costs of buildup. We need to push that we get the buildup right so that our island benefits from it and not only the military colony that is brought over. Our present budget levels make it difficult for our operations to effectively provide maintenance and repairs to meet OSHA & Building Codes of Guam for it will be much more challenging with the projected population boom as we adhere to our mandates. We must capture the limited time to identify the true assessment of our government buildings and facilities as to the readiness of our financial infrastructure for the buildup.

Chapter 16.1.5.3 Public Safety

Public Safety includes the protection from and prevention of events endangering the general public's safety, including crime and disasters, both natural and man-made. Government agencies on Guam involved in law and traffic enforcement, fire suppression, emergency medical response, safety inspections, civil and criminal litigation, justice, and corrections are all considered public safety agencies.

Significance: HEALTH AND SAFETY

J-021-024 Impacts on health and safety vary among projects. For example large and complex operations of any facilities especially industrial facilities can pose threat to health and safety of workers, public and ecosystem in general. Health and safety issues tend to be more significant during operations because they occur on over extended period of time.

> The three major health and safety concerns are accidents, exposure to contaminants and noise. Depending on the nature of work, hazardous or potential dangerous materials may be used to produced and or stored on site. Workers and the environment maybe exposed to these materials through direct contact, exposure to fugitive dust and other air emissions or spills.

To determine the impact of the influx of military buildup, we must realistically see a clear picture of our existing conditions and needs, then, we can proceed to accurately access and evaluate the actual

ADMIN - Page 5 of 38

http://mail.google.com/a/dnsv.mam.gov/?ni=?&rib=e/?off52d8&rrien==nt&reerch=inhov&- 1/11/2010

to commit crimes."

The DoD acknowledges that any increase in population, such as the one that these proposed actions would cause, may be accompanied by a proportionate increase in crime and social disorder. The DoD also acknowledges that widely publicized instances of military crime in Okinawa cause Guam residents to be concerned about possible repercussions on the island brought about by the increase in military population on Guam. The increase in population during the construction phase of the build up is recognized as a time for concern for increases in incidents of crime. Moreover, it is also acknowledged that the age group of many military personnel is often characterized as prone to conflicts and misbehavior. DoD educates its service men and woman on good behavior and will act promptly and rigorously to curtail any misconduct and enforce laws to protect the citizens of Guam and our military personnel.

J-021-020

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-021-021

Thank you for your comment. The 2030 Guam Transportation Plan outlines recommendations for an improved mass transit system on Guam. These recommendations included forming the Guam Mass Transit Authority and implementing high-capacity bus service on the

The Guam Department of Public Works Mail - Division's Impact on Military Building

Page 3 of 4

J-021-024 impact of increase personnel and activities here in our island. The following assessment reviews are provided:

> BCFM's is committed to provide quality, cost-effective maintenance, repairs, modifications, and upgrades to "non-autonomous agencies" of the Government of Guam, prioritizing the Governor's Office- Adelup Complex, Government House, Civil Defense, Data Processing-Department of Administration, and Department of Public Works. Our primary mission is to ensure existing buildings and its facilities and equipment are in a safe, operable, and hazard-free environment to using agency in meeting their services to the public. We encourage continual functionality, efficiency and sustainability of the government buildings in its daily operation providing responsive maintenance and repairs in maximize longevity and usage with special emphasis to building codes, regulations and safety requirements

Chapter 16.1.5 **Public Services**

Education Services Primary, secondary, and high-school education for the civilian residents of Guam is provided through the DOE, and various private schools. Although there are currently no charter schools on Guam, the recently enacted (January 30, 2009) Guam Public Law 29-140 authorized the establishment of such schools. School-age children of active duty military and other federally-related populations on Guam are served by schools in the DoD Dependent Schools Pacific/DDESS Guarn system. Higher education services on Guam are provided by the UoG, Guam Community College (GCC), and the Pacific Islands University. UoG and GCC also provide vocational training and business development programs. Primary, Secondary and High School Education

Public Schools (GPSS)

GPSS is one unified school district, supporting 40 schools (26 elementary, eight middle, five high and one alternative). GPSS plans to open three new schools. A large number of GPSS schools are located within Guam's central region, followed by the northern area, with the smallest number of schools in the south and Apra Harbor region. As of July 2008, GPSS employed about 4,000 employees and serviced approximately 31,000 students (Kelman 2008). The student population of GPSS is very diverse.

J-021-025 | Significance: Due to population increase and its associated effects on Educational Facilities and personnel, the availability of school buildings and its maintenance should be addressed. The concern of northern, central and southern areas of the island considering the primary, secondary and high school level .

> Population changes associated with the operation phase are generally expected to be long -term or permanent. An impact assessment will be projected and its changes to public and private enrollment and the effect to ratios on student to teacher and school capacity. Therefore, an estimated changes and demand for utilities has a great effect and significance to current capacity, because they may permanently alter the structure.

> ANNUAL EMERGENCY MAINTENANCE REPAIRS FOR DEPARTMENT OF EDUCATION (DOE) BACKLOG! Also known as the DOE School Readiness Program. The Governor appointed a School Recovery Task Force to ensure that all schools were in readiness condition safe and operable for the opening of the school year. BCFM Division is annually tasked to spear-head the

VOL 2, VOL 3 ADMIN - Page 6 of 38

LM-//m-il accala com/a/dave area car/Ori-O Prilma/Oriffe do Preiaremet Proposation bay Pr 1/11/2010

island. In late 2009/early 2010, the Guam Regional Transit Authority (GRTA) was formed and will now be responsible for all public transit functions. The GRTA approved the Guam Transit Business Plan in January 2010, which includes purchasing new buses, constructing a bus maintenance facility, and modifying the bus schedule.

Airport expansion is not part of this EIS. The Guam International Airport Authority is responsible for any additions or improvements to the airport.

J-021-022

Thank you for your comment. It is acknowledged in the Final EIS that increased population during the construction phase of the military relocation program would contribute to increased use of tourist and recreational facilities as noted in your comment.

J-021-023

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-021-024

Thank you for your comment. In accordance with the National Environmental Policy Act (NEPA) the EIS presents a discussion of the affected environment (existing conditions) for each of the resources evaluated in the document (e.g., air quality, noise, hazardous material management, etc.). Based on the description of the affected

The Guam Department of Public Works Mail - Division's Impact on Military Building

Page 4 of 4

department's involvement providing specialized skilled work to address various emergency safety repairs as cited by PHSS Environmental Division.

The daily issues in the media on John F. Kennedy High School and Southern High School are primary examples of how maintenance has been in the back burners as reflected in the "State of Emergency Declaration for Repairs." A thorough assessment of ALL schools should be made to garner the funding to bring our schools up to par for SAFETY before the influx takes place!

Our assistant yearly to DOE continue to cause backlog in our normal operations and has replaced "preventive maintenance programs services" to an "Emergency On-Call Services." Again, the issue on the lack of resources are to be ascertained.

IMPACT SUMMARY

THE MAJOR IMPACT to the proposed military influx IS FUNDING& SAFETY! In preparation to accommodate the demands of the relocation, funding should be provided to bring to PAR the already identified hazardous projects that are still lingering to date. Continue neglect is not an option but to immediate execute SAFETY BEFORE the mass transition of the estimated THOUSANDS of bodies that is expected to come. The influx will rapidly increase the wear and tear of government buildings and facilities that are to provide services to them.

VOL 2, VOL 3 ADMIN - Page 7 of 38

Guam and CNMI Military Relocation DEIS/OEIS

environment, the proposed activities have been evaluated to identify potential impacts of the proposed military buildup and associated operations/training activities on Guam and Tinian.

J-021-025

Thank you for your comment. The impacts on the Guam public school system are discussed in subsection 4.4.2, page 4-42 of the Socioeconomic Impact Assessment Study (SIAS). Table 4.4-4 in the SIAS provides the potential increase (maximal) of student population in the Guam Public School System from 2010 to 2020. Providing a brief summary, at the peak population year (2014), a total of 7,937 students could attend the public school system; by 2017, when the operational (long-term) conditions occur, the students generated could be 909. This is based on the direct and indirect (induced) populations resulting from the military relocation. The military dependents would be educated in the DoD school system and should not affect the public school system. Money generated through taxes from the increased population and federal payments to schools (based on student populations) should provide revenue to fund resources for the public schools.



Arleen Pierce <arleen.pierce@dpw.guam.gov>

2nd Report - DEIS

Cecilla D Javier <cecilia.javier@dpw.guam.gov>
To: Arleen Pierce <arleen.pierce@dpw.guam.gov>

Thu, Jan 7, 2010 at 9:28 PM

Hi Arleen,

Submitted is OHS second report on the Draft DEIS with both volumes at a No Adverse Impact for our office.

Cil D. Javier
Management Analyst IV
Highway Safety Coordinator
Office of Highway Safety, DPW
(671) 647-4343
(671) 646-3733 - Fax

OHS DEIS 2nd Report Jan 8, 2010.doc 111K

TRANSPORTATION MAINTENANCE DIVISION Draft Environmental Impact Statement (DEIS) Vol. 2 and Vol. 3

Vol. 2 - Impact on Transportation Maintenance Division -

At this point I see no negative impact to TMD reason for is Vol 2 mainly speaks of the marines and there family relocating to Guam in which they will be utilizing existing DOD structure and if need be to acquire property to build new infrastructure.

Vol. 2 - Impact to Gov. Gu. -

J-021-026

This will have a tremendous impact on DPW's engineers, Federal highways, building permits, CIP and CQC. With the current staffing with these divisions it will not be suffient enough to handle the influx in infrastructure thus causing a back log on these projects.

Vol. 3 - no comments

ADMIN - Page 9 of 38

Guam and CNMI Military Relocation DEIS/OEIS

VOL 2, VOL 3

J-021-026

Thank you for your comment. DoD recognizes the potential strain on GovGuam resources created by the proposed military relocation program. DoD would work with local officials and stakeholders to lessen any adverse impacts associated with implementation of the proposed actions.



DEPARTMENT OF PUBLIC WORKS

Draft Environmental Impact Statement (DEIS)

VOLUME 4, VOLUME 5





Lawrence P. Pere: Directo Andrew S. Leon Guerren

January 19, 2010

Memorandum

To:

Director

Deputy Director All Division Managers

From:

Arleen U. Pierce, Controller

Subject:

Draft Environmental Impact Statement (DEIS)

(Report number 3)

Buenas yan Hafa Adai!

Transmitted herewith for your review and action are DPW's response to the DEIS related to the Executive Summary, Readers' Guide, Volume 4 and 5. The attached responses were received from the following divisions:

- Administration
- Building Construction & Facilities Maintenance
- Office of Highway Safety
- Highways

Should there be any questions regarding this memorandum,, please feel free to contact me at 646-3154 or the Fiscal office at 646-3231.

Un Dangkulo na Si Yu'os Maase.

Attachments

542 North Marine Corps Drive, Tamuning Guam 95913 • Tel (671) 646-3131 • Fax (671) 649-8178
VOL 4, VOL 5
ADMIN - Page 1 of 29

DPW Division of Administration DEIS – Overall Review Notes Volumes 4 & 5 1/15/10

Filename: DEIS review notesv4

VOLUME 4 Aircraft Carrier Berthing

J-021-027

1. TOURISM

Due to the closeness of Tinian and Saipan to Guam, the military personnel and their families can come to Guam to visit. This will result in an increase in the number of tourist not only from the Asia market. Hotels, rental cars, restaurants and recreation will need to accommodate more customers.

J-021-028

2. ENVIRONMENTAL CONCERNS RELATED TO POLLUTION & TOXINS Environmental concerns must be noted even if the training ranges are in Tinian. The pollution related to air, land and sea may be impacted here on Guam. The air we breathe, the plants we eat, the deer, chickens, pigs and all livestock and the fish, seafood we eat. The remains of the ammunition and dredging equipment will affect our vegetation as the wind will be a factor in passing on the residues.

J-021-029

J-021-030

3. WATER AND WASTEWATER

Customer demands will be tremendously increase due to the influx of the user population. Ocean water will be affected with the dredging requirements. In addition, the Clean Water Act should be complied with as it can pass contamination into our sea food and sea animals and drinking water consumed by our human bodies and all other non human consumption.

J-021-031

4. DREDGING DAMAGES

Our corals will be damaged due to all of the dredging required. More importantly the ocean will be affected and the sea creatures will no longer be living in that environment. We will then have fewer creatures and our waters will not be as beautiful as it once was. The natural resources for corals and the surroundings will be negatively impacted. Diving, swimming, fishing and boating will prohibited in these areas.

J-021-032

5. HAZARDOUS MATERIALS WASTE MANAGEMENT

There will be a need for clean up due to kinds of hazardous materials related to the dredging. This will also require a haz mat team who are trained to do the clean up spills. We should also anticipate accidents such as oil spills, radiation/nuclear spillage or leakage, gas spills, etc. We need a specialized team for this type of clean up as it can provide serious health issues such as cancer, etc.

VOL 4, VOL 5

ADMIN - Page 2 of 29

Guam and CNMI Military Relocation DEIS/OEIS

J-021-027

Thank you for your comment. Please see the Socioeconomic Impact Assessment Study (Appendix F of the EIS) for more information on Tourism.

J-021-028

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam and Tinian, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people of Guam and Tinian and the Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation and operations reflect DoD policies to be good neighbors and responsible citizens. The DoD has kept the public informed as required by NEPA, which includes holding public scoping meetings and public hearings and allowing the public to comment on the DEIS. DoD has had ongoing discussions with Cooperating Agencies (those federal and local agencies with special expertise or regulatory oversight) throughout the preparation of the DEIS and will continue these discussions with agencies through the completion of the Final EIS.

J-021-029

Thank you for your comment. DoD is aware of the potential increase to the civilian population, inclusive of construction workers. The DEIS did quantify that potential increase. The final EIS has been revised to include indirect impacts of the proposed DoD buildup caused by this civilian population increase and its impact on potable water demand. DoD remains committed to working with GWA in finding solutions to their water system.

J-021-033

6. ROADS

There is a need to expand all the roads due to heavy traffic along Polaris Point. The traffic will include heavy equipment to regular automobiles for loading and unloading docks, etc.

J-021-034

7. COMMERCIAL PORT

There will be a need for expansion for Guam's commercial port due to the influx of the population. Large cargos with various commodities will be shipped to Guam.

VOLUME 5 Army Air and Missile Defense Task Force

Concerns are the same as above Numbers 2, 3, & 5

VOL 4, VOL 5 ADMIN - Page 3 of 29

Guam and CNMI Military Relocation DEIS/OEIS

J-021-030

Thank you for your comment. Dredging impacts to water resources are addressed in Chapter 4 of Volumes 2 and 4. Compliance with the Clean Water Act is addressed in these chapters and in Chapter 3 of Volume 8.

J-021-031

Thank you for your comment. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor will one be available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

J-021-032

The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including fuels, lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, PCBs, and other hazardous substances. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and substituting them for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and

The Guam Department of Public Works Mail - DPW DIVISION DEADLINE ON DEIS

Page 1 of 1



Arleen Pierce <arleen.pierce@dpw.guam.gov>

DPW DIVISION DEADLINE ON DEIS

Barbara Purugganan <barbara.purugganan@dpw.guam.gov>

Thu, Jan 14, 2010 at 5:12

To: "Lawrence 'Larry' P. Perez" <zerepyrral@yahoo.com>, Arleen Pierce <arleen.pierce@dpw.guam.gov> Cc: Dominic G Muna <dominic.muna@dpw.guam.gov>, Oscar Yanger <oscar.yanger@dpw.guam.gov>, Mona Duenas <mona.duenas@dpw.guam.gov>, Roselliy Cruz <roselliy.cruz@dpw.guam.gov>

ENVIRONMENTAL IMPACT STATEMENT GUAM & CNMI MILITARY RELOCTION

Building Construction & Facility Maintenance Division (BCFM)
Department of Public Works (DPW)

SUBJECT:

DPW DIVISION DEADLINE ON DEIS Impact Comments on Volume 4 & 5 Due Date: January 15, 2010

VOLUME 4:

Aircraft Carrier Berthing

Comments: No direct impact applicable to division's operation.

VOLUME 5

Army Air & Missile Defense Task Force

J-021-035

Comments: No direct impact applicable at this time, but we foresee a secondary impact (indirect) from the sudden influx of populations. The rapid wear and tear of the daily increased used of government facilities and equipment will induced changes demanding repair and maintenance services. Our existing funding and manpower must be addressed to parallel these increases.

This is the main reason why we must address the current backlogs of present hazardous conditions of our facilities and increase the manpower to bring our ailing infrastructure to par.

VOL 4, VOL 5

ADMIN - Page 4 of 29

.

regulations, DoD has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage, spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are fully described in the EIS document (Volume 7). Note that BMPs and SOPs are not considered "mitigation measures" because these actions are being done as part of existing laws and regulations and not as part of new "mitigation". However, if a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are mitigated quickly and effectively. In many cases, part of remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. In fact, many such clean-up efforts are underway. As part of the clean-up process, the DoD provides various opportunities for the general public, stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs) where interested party questions and concerns may be communicated. For information on the status of the cleanup efforts of specific hazardous waste sites, the associated RAB provides a vehicle to obtain such information and for the general public/stakeholders to voice their concerns. These comprehensive actions (e.g., BMPs, SOPs, etc.)





OFFICE OF HIGHWAY SAFETY REVIEW & COMMENTS Draft Environmental Impact Statement (DEIS) 3rd Report January 15, 2010

DEIS Vol 4. – Aircraft Carrier

"No Adverse Impact"

II. DEIS Vol. 5 – AMDTF

"No Adverse Impact"

VOL 4, VOL 5⁵⁴² North Marine Drive, Tamuning Guam 96913 ■ Tel (671) 646-3131 / 3259 ● Fax (671) 649-6178 ADMIN - Page 7 of 29

will protect public health, welfare, and the environment from adverse impacts associated with the use of hazardous substances.

J-021-033

Thank you for your comment. The FEIS traffic studies indicate that Polaris Point road and Route 1 in the vicinity of the Polaris Point intersection are adequate to handle future traffic associated with the Marine relocation.

J-021-034

Thank you for your comment. The Jose D. Leon Guerrero Commercial Port (also known as the Port of Guam) is administered by the Port Authority. The Port Authority is part of GovGuam and operates as a public corporation and autonomous instrumentality. Since its construction in 1969, the Port has remained largely unchanged. With many areas near capacity or unusable, expansion of the Port's facilities and equipment upgrades would create operational efficiencies and maximize Port capacity. Prior to the announcement of the proposed military relocation, Port improvements and expansion were under consideration; however, the military relocation created an additional impetus to implement planning studies and improvements to service the anticipated construction work and additional population.

J-021-035

Thank you for your comment. A new chapter (Chapter 4) has been added to Volume 1 identifying information and analysis that has been added between publication of the Draft EIS and the Final EIS. This includes a section specifying effects associated with indirect and induced growth.

The and TAXI Remover . TARTICATION MEAGURES. Description of mitigation activities for all priceal impacts to both the natural and man (sociateconomic) environment). 1. Pollutariats Generation, Transport, and	provi Bironi e informacio. Tom	Not squately, Adequalely wred - Crivered	por-ments Country & National to Lie 1114 (g), then the State of the order transport of the service of the serv
DISE	Volume 1, Executive Summary, Page ES 34, Table ES-4, "Summary of Significant Impact of the Preferred Alternatives" & Volume 7, Chapter 2, Page 2-21, Table 2.2-1 "Noise (Human Receptors) - No Milligation measures".	x x	Roadway noise would be a significant impact in the north and central areas of Guarn. Mitigation has not been determined. Noise waits are a potential mitigation, but they have adverse impacts on views. Volume 7. Chapter 2, Page 2-21, Table 2-2-1 "Noise (Human Roceptors) - No Mitigation measures".
Description of nitigation measures ith adequate information to evaluate wironmental consequences and residual spects			
J-021-037	Volume 8. Chapter 4, page 4-2	×	"according to the 2030 Guam Transportation Plan it is recommended that," All Intersections and readway segments should operate at LOS Eduring peek periods, Improvements undertaken by Guam DPW would be designed to allevides substandard LOS conditions to the extent feasible, with due consideration to physical and environmental constraints." Refer to Table 4,1-1 Design Thresholds for Level of Service.
identification of set mitigation measures avoid or minimize potential impacts during I stages of orpice, including airing and stign, facility operation, and post facility osure. 4. Pollutants Generation, Transport, and ecopiors 9. Habitst Alterations	Volume 1, Executive Summary, PageES-29 through ES-31	-	Road improvement project are subject to alternative selected.
Support of the following types of mitigation regsures in the following descreasing order if preference:			

J-021-036

Thank you for your comment. Several mitigation measures are proposed. Adaptive program management for construction would stretch out construction time and alleviate construction noise by reducing the number of construction equipment on site at any one time, but the impacts would have a longer duration. Foliage and Barrier Attenuation would reduce noise impacts associated with the Route 15 firing ranges. Volume 2, Chapter 6.2.8 has been revised to include these mitigation measures and presents the effect of the mitigations. These mitigation measures have also been added to Volume 7, Chapter 2.

J-021-037

Thank you for your comment. Chapter 4 of Volume 6 presents the analysis for impacts to Guam's land transportation system. Four alternatives are presented that complement the four action alternatives related to the location of the Marine Corps main cantonment. These four roadway alternatives are a combination of projects that corresponds to the needs associated with each main cantonment alternative. As the preferred alternative for the main cantonment is Alternative 2, the preferred alternative for the roadway projects is also Alternative 2 as discussed in Chapter 2 of Volume 6.

J-0	> Avoidance or > Minimization > Reduction or > Correction > Compensation 21-038	săminatino over time			"Quam DPW would also identify noise receptors on underveloped tand for which development is
	i. Implementation	plen (Schedule) and once for all mitigation	Volume 6, Chapter 8, page 5-6	x	planned, previded such consequent includes activity allos of the types described in the NNC and new/ided that local pormits for the development have been acquired on applied for on or before commencement of the noise analysis. Glaum DPV would familish the results of highway traffic no analyses to local government officials and vould encourage local communities and development in practice noise compatible development. Local government coordination would be accomplished through the dethicition? However, this is not summarized in Volume 7, of Mitigation strategy through Clasm DPV. Recommend re-iterating Volume 6, Chapter 8 Noise Abstracent Informatic for "hitigation". Also, what will be the discussion on Noise walls in Volume 7, Refer to Volume 1, Executive Summary, page ES-34, Table ES-4.
İ	each miligation m 7. Measures are acceptable 3. Adequate finar	tity assigned to carrying out assure lockely and culturally cial and non-financial ment the measure		х	Refer to liam #5 above.
	,				
j					
i					
	*				

Guam and CNMI Military Relocation DEIS/OEIS

J-021-038

Thank you for your comment. Volume 7 has been updated to include sound walls as the mitigation measure for traffic noise, where determined to be feasible and reasonable in accordance with Guam's Traffic Noise Abatement Policy (refer to Table 2.2-1, Volume 7). The statement also indicates that sound walls are considered following identification of sensitive receptors in project corridors and associated noise studies. In addition, best management practices for addressing noise generated during roadway construction have been included in Table 2.1-1 of Volume 7.

TRANSPORTATION MAINTENANCE DIVISION Draft Environmental Impact Statement (DEIS) Vol. 4 and Vol. 5

Vol. 4 - No Adverse Impact

Vol. 5 - No Adverse Impact

TRANSPORTATION MAINTENANCE DIVISION Draft Environmental Impact Statement (DEIS) Vol. 6 and Vol. 7

J-021-039

Vol. 6 and Vol 7 – Will not have an immediate impact on TMD. However it will have an impact on DPW Hwy. Maintenance, Federal Hwys and Engineering section. With the lack of personnel vehicles and equipment to perform there duties and responsibilities these division will not be able to keep up with the demand thus causing delays on projects. And as these divisions start to build up in personnel, vehicles and equipment then this will have an impact on TMD. DPW as a whole is not prepared for the impact regarding the road projects and infrastructure up grades

TRANSPORTATION MAINTENANCE DIVISION
Draft Environmental Impact Statement (DEIS)
Vol. 8 and Vol. 9

VOL Yolo 8 and Vol 9 - No adverse impact

ADMIN - Page 8 of 29

Guam and CNMI Military Relocation DEIS/OEIS

J-021-039

Thank you for your comment. The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the US Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DoD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The DoD, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible or funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to assist the Government of Guam in seeking funds for projects that are not eligible for the DAR program.



DEPARTMENT OF PUBLIC WORKS

Draft Environmental Impact Statement (DEIS)

VOLUME 6, VOLUME 7







Lawrence P. Perez Director ndrew S. Leon Guerrero Deputy Director

January 25, 2010

Memorandum

To:

Director Deputy Director All Division Managers

From:

rleen U. Pierce, Controller

Subject:

Draft Environmental Impact Statement (DEIS)

(Report number 4)

Buenas yan Hafa Adai!

Transmitted herewith for your review and action are DPW's response to the DEIS related to the Executive Summary, Readers' Guide, Volume 6 and 7. The attached responses were received from the following divisions:

Administration

Building Construction & Facilities Maintenance

Transportation Maintenance

We have also attached a status report on all DPW Divisions related to their divisions Impact statement.

Should there be any questions regarding this memorandum,, please feel free to contact me at 646-3154 or the Fiscal office at 646-3231.

Un Dangkulo na Si Yu'os Maase.

Attachments

Department of Public Works
Division of Administration
DEIS Reporting Requirements - DPW Director

Division Submission Checklist

1/25/10 Bolilie

Division Division Head Point of Contact: Report 1 Report 2 Report 3 Report 4 Report 5 Report 5 Report 7 Arleen Pierce ٧ Administration Arleen Pierce ٧ ٧ Barbara Purugganan **Building Maintenance** Dominic Muna ٧ ٧ **Bus Operations** Franklin Taitano Julie Manglona Capital Improvement Ramon Padua Eleanor Borja Highway Maintenance George Bamba Elizabeth Barcinas Parsons Joaquin Blaz Highways & Parsons* Mario Garcia* GBB Chace Anderson Solid Waste

٧

٧

٧

٧

٧

Sandra Perez

Cil Javier

*Mario Garcia provided support to the DEIS project.

As of January 25, 2010

Footnotes

Transportation

Report #1 (due 12/31/2009) Volume 1 & 9, Readers Guide and Executive Summary

Paul Cepeda

Reprot #2 (due 01/08/2010) Volume 2 & 3

Report #3 (due 01/15/2010) Volume 4 & 5

Office of Highway Safety Cil Javier

Report #4 (due 01/22/2010) Volume 6 & 7

Report #5 (due 01/29/2010) Volume 8

Report #6 (due 02/05/2010) All Volumes

Report #7 (due 02/12/2010) Final DPW Submission to JCPO

DPW Division of Administration DEIS – Overall Review Notes Volumes 6 & 7 1/22/10

Filename: DEIS review notesv5

VOLUME 6 Utilities and Roadway Projects

FOOTNOTES:

J-021-040

- A. There are several incorrect references to maps within volume 6 of the DEIS that needs to be corrected. There were multiple maps where the average user will have to go from page to page (rather than summary pages and linked per grids,
- etc). The maps were not user-friendly to layman readers; instead they appeared to be more confusing.
- B. We need to obtain copies of the deliverables from the Matrix consultant to further analyze volumes 6 & 7 of the DEIS documentations.
- C. This is a specialized subject matter area that requires professionals to review from the various capacities such as the current consultants (Parsons) and their sub-contractors, FHWA, lawyers, environmentalist, engineers, architects, CIP, inspectors, financial and other experts within the highway industry.
- D. The methodologies adopted within this volume such as the Level of Service, traffic management analysis, were adequately presented and documented to support each alternatives/assessments within the DEIS study.

J-021-041

ENVIRONMENTAL CONCERNS RELATED TO POLLUTION & TOXINS
 Environmental concerns must be noted for the occurrence of heavy traffic, light and
 heavy equipment, and military mobilization and construction materials and vehicles in
 which pollution will be major factor. The pollution related to air, land and sea may be
 impacted here on Guam. The air we breathe, the plants we eat, the deer, chickens, pigs
 and all livestock and the fish, seafood we eat. The remains of the ammunition and
 dredging equipment will affect our vegetation as the wind will be a factor in passing on
 the residues.

J-021-042

- NOISE
 - Noise from the construction build up and the firing ranges will also be a factor. Moreover, the firing range is located within a residential and a school district region.
- 3. POWER, WATER AND WASTEWATER

VOL 6, VOL 7

ADMIN - Page 3 of 21

Guam and CNMI Military Relocation DEIS/OEIS

J-021-040

Thank you for your comment.

J-021-041

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with Government of Guam and the people of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation and operations reflect DoD policies to be good neighbors and responsible citizens. The DoD has kept the public informed as required by NEPA, which includes holding public scoping meetings and public hearings and allowing the public to comment on the DEIS. DoD has had ongoing discussions with Cooperating Agencies (those federal and local agencies with special expertise or regulatory oversight) throughout the preparation of the DEIS and will continue these discussions with agencies through the completion of the Final EIS.

J-021-042

Thank you for your comment. Mitigation measures have been proposed for the firing ranges and the results of noise modelling with the mitigations is presented in Volume 2, Chapter 6.2.8.

p. 7/4

J-021-043

3. POWER, WATER AND WASTEWATER

Customer demands will be tremendously increase due to the influx of the user population. The Clean Water Act should be complied with as it can pass contamination into our sea food and sea animals and drinking water consumed by our human bodies and all other non human consumption.

J-021-044

4. HAZARDOUS MATERIALS & WASTE MANAGEMENT

There will be a need for clean up due to kinds of hazardous materials related to the dredging. This will also require a haz mat team who are trained to do the clean up spills. We should also anticipate accidents such as oil spills, radiation/nuclear spillage or leakage, gas spills, etc. We need a specialized team for this type of clean up as it can provide serious health issues such as cancer, etc.

J-021-045

5. ROADS

There is a need to expand all the roads due to heavy traffic along Polaris Point. The traffic will include heavy equipment to regular automobiles for loading and unloading docks, etc.

6. MASS TRANSPORTATION & SCHOOL BUSES

Due to the increase in population, mass transit buses and school buses will have to increase as well to accommodate the public demand. Bus stops are also in need throughout the whole island.

J-021-046

7. COMMERCIAL PORT

There will be a need for expansion for Guam's commercial port due to the influx of the population. Large cargos with various commodities will be shipped to Guam.

J-021-047

8. LAND ACQUISITION FOR ROADS

Will there be more land (from private homeowners) needed for this build up?

J-021-048

9. OHS ADDITIONAL FEDERAL GRANT FUNDINGS

Will there be more federal grant funding from OHS to promote road safety?

10. FUNDING ISSUES

Who will be paying for what projects?

Will the funding be 100% federal or will there be a matching of funds? How about other funding sources?

Federal Grants

- a. FHWA
- b. DOD
- c. NHTSA
- d. USDOI

Other Funding Sources

- e. Bond Financing
- f. GHF-Liquid Fuel Taxes
- g. Mass Transit fees

VOL 6, VOL 7

ADMIN - Page 4 of 21

J-021-043

Thank you for your comment. DoD is aware of and concerned with the potential increased demands from both the direct impacts of the proposed DoD buildup and the indirect impacts from increases in the civilian population. The final EIS has been revised to include an assessment of the indirect impacts. DoD has every intention of complying with the Clean Water Act.

J-021-044

The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including fuels, lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, PCBs, and other hazardous substances. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and substituting them for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and regulations, DoD has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage, spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are fully described in the EIS document (Volume 7). Note that BMPs and SOPs are not considered "mitigation measures" because these actions are being done as part of existing laws and regulations and not as part of new "mitigation". However, if a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the

p.3/4

J-021-048

11. PROJECT COST

What is the cost breakdown per projects? What is the scope of work? Will we be outsourcing 100% of the work? How much will DPW receive for each project, direct cost, indirect cost and administrative costs? How are the funds being received by electronic funds transfer or by US postal service?

VOLUME 7 - SOLID WASTE MANAGEMENT

FOOTNOTES:

A. This is a specialized area that requires professionals to review from the various capacity such as the receivership consultants, lawyers, judges, environmentalist, health and safety experts, engineers, architects, financial and other experts within the solid waste management industry.

J-021-049

1. FUNDING ISSUES

Will GovGuam receive any federal grants from military to help with our landfill costs since the military will be a large cliental? Guam will be financing the landfill closure and opening cost, but can the military provide some federal funding As they too will benefit from the landfill (Guam cannot afford to pay this full cost when the military are also part of the cost and not 100% general public use and yet we pay 100% of the financing)? How much more in revenues will we receive due to increase in Tipping Fees? How about congressional funding such as the Clean Air and Clean Water Act, Superfund, etc.? How about a special appropriation from Congress to support Guam's solid waste management needs due to the military's base and work requirements, similar to the Defense Access Road Program funding?

2. HAZARDOUS MATERIALS

What are the mitigations related to all hazardous materials related to construction, ammunition and other environmental waste? Is there a materials management spill response plan, treatment and handling, mitigation plans, etc? Establish reasonable pricing policies for community services to include military customers? Is there a recycling and waste program?

3. OPERATIONAL COST

Cost related to SW Management will need to increase due to personnel cost and training for staff. Training needs are required for the various disciplines within waste management.

VOL 6, VOL 7

ADMIN - Page 5 of 21

leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are mitigated guickly and effectively. In many cases, part of remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. In fact, many such clean-up efforts are underway. As part of the clean-up process, the DoD provides various opportunities for the general public, stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs) where interested party questions and concerns may be communicated. For information on the status of the cleanup efforts of specific hazardous waste sites, the associated RAB provides a vehicle to obtain such information and for the general public/stakeholders to voice their concerns. These comprehensive actions (e.g., BMPs, SOPs, etc.) will protect public health, welfare, and the environment from adverse impacts associated with the use of hazardous substances.

J-021-045

Thank you for your comment. The 2030 Guam Transportation Plan outlines recommendations for an improved mass transit system on Guam. These recommendations included forming the Guam Mass Transit Authority and implementing high-capacity bus service on the island. In late 2009/early 2010, the Guam Regional Transit Authority (GRTA) was formed and will now be responsible for all public transit functions. The GRTA approved the Guam Transit Business Plan in January 2010, which includes purchasing new buses, constructing a bus maintenance facility, and modifying the bus schedule.



J-021-049

4. RECEIVERSHIP INVOLVEMENT

To what extent is the GBB receivership's (based upon the federal district courts rules) involvement related to the military buildup, DEIS planning & implementation, scope of work, etc? After GBB's work, who, when and what will happen next? DPW cannot be left out of the equation or be the clean up committee after GBB's contract is over.

VOL 6, VOL 7 ADMIN - Page 6 of 21

J-021-046

Thank you for your comment. The Jose D. Leon Guerrero Commercial Port (also known as the Port of Guam [Port] is administered by the Port Authority. The Port Authority is part of GovGuam and operates as a public corporation and autonomous instrumentality. Since its construction in 1969, the Port has remained largely unchanged. With many areas near capacity or unusable, expansion of the Port's facilities and equipment upgrades would create operational efficiencies and maximize Port capacity. Prior to the announcement of the proposed military relocation, Port improvements and expansion were under consideration; however, the military relocation created an additional impetus to implement planning studies and improvements to service the anticipated construction work and additional population.

In August 2007, work began to update the Port's master plan. The recommendations and updates address future expansion and development based on typical commercial growth, as well as the impending military buildup. A final draft Port master plan was completed in April 2008 which updated the existing master plan and set the road map for upgrading the facilities. The Port master plan was approved by the Guam Legislature in December 2009. The master plan calls for nearly \$200 million in capital improvement upgrades to the Port facilities. The modernization program would address both Guam's expected growth without the proposed action and the anticipated increase in cargo volume resulting from the proposed action. While DoD is not directing the Port improvements, an amendment to the 2010 Defense Appropriations Bill is proposed in Congress which calls for the transfer of \$50M of DoD FY10 funds to the Department of Transportation to fund Phase I of the port improvements.

J-021-047

Thank you for your comment. DoD acknowledges that the issue of land acquisition is a complex and sensitive one with both historical and

The Guam Department of Public Works Mail - DEIS Volume 6 & 7

Page 1 of 1



Arleen Pierce <arleen.pierce@dpw.guam.gov>

DEIS Volume 6 & 7

Barbara Purugganan

Sarbara Purugganan

Thu, Jan 21, 2010 at 8:16 PM To: "Lawrence 'Larry' P. Perez" <zerepyrral@yahoo.com>, Andrew Leon Guerrero <andrew.leonguerrero@dpw.guam.gov>, Arleen Pierce <arleen.pierce@dpw.guam.gov> Cc: Dominic G Muna dominic.muna@dpw.guam.gov>, Mona Duenas <mona.duenas@dpw.guam.gov>, Roselily Cruz <roselily.cruz@dpw.guam.gov>

ENVIRONMENTAL IMPACT STATEMENT

Buenas!

Herewith transmitted is this weeks comment.

GUAM & CNMI MILITARY RELOCTION

Building Construction & Facility Maintenance Division (BCFM)

Department of Public Works (DPW)

SUBJECT:

DPW DIVISION DEADLINE ON DEIS Impact Comments on Volume 6 & 7 Due Date: January 22, 2010

Comments: No direct impact applicable to division's operation.

contemporary contexts. Should DoD determine that additional land is necessary to meet its requirements, DoD policy requires that it negotiate with affected public and private land owners in good faith, seek agreements to acquire desired lands interests and pay fair market value. DoD is confident that all parties can reach agreement on any potential land acquisition. Further, any proposed major DoD land acquisition, such as those associated with the preferred alternatives for the main cantonment and live fire ranges, must be approved by the Congressional defense committees.

Specific areas being considered for acquisition are identified in the Final EIS.

J-021-048

Thank you for your comment. A mass transportation plan is part of the 2030 Guam Transportation Plan (GTP). The Guam Regional Transit Authority (GRTA) has the responsibility to carry out the plan established in the 2030 GTP. The Department of Defense will also be developing an on-base transit system and will coordinate with GRTA to have both systems work together. The airport is in the process of updating its master plan to accommodate the increased travel due to the military build up. The port has a master plan that address the increases in cargo transport due to the military build up.

The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the US Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DOD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.





OFFICE OF HIGHWAY SAFETY REVIEW & COMMENTS Draft Environmental Impact Statement (DEIS) 4th Report January 29, 2010

DEIS Vol 6. –

J-021-050

Section 2.5.1.6 Safety – Addresses Guam DPW "Office of Highway Safety as funded through Federal Highway Administration safety improvement funds" which must be corrected and addressed as:

The Guam DPW Office of Highway Safety is funded through the National Highway Traffic Safety Administration (NHTSA) to provide leadership by developing, promoting, and coordinating programs; influencing public and private policies; and increasing public awareness of highway safety. Highway Safety means the reduction of traffic crashes, deaths, injuries and property damage resulting on Guam's Highways.

J-021-051

With the impact of the island's roadway expansion the Guam Office of Highway Safety plays a major factor with regards to increase of enforcement activities and massive public awareness campaigns. Educational outreaches must be set in accordance to teach and educate the laws pertaining to highway safety, i.e. DUI, Seat Belt, Texting, bicycle and pedestrian education training on crosswalks.

II. DEIS Vol. 7 -

"No Adverse Impact"

VOL 6, VOL 7542 North Marine Drive, Tamuning Guam 96913 ● Tel (671) 646-3131 / 3259 ● Fax (671) 649-61ZBMIN - Page 8 of 21

The Department of Defense, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to seek solutions to island-wide traffic issues.

OHS funding is dependent upon the amount of lane miles. The amount of lane miles will not increase and therefore it is anticipated that additional funding will not be provided.

J-021-049

- 1. Funding Issues: DoD is restricted in its budget expenditures to their own personnel and facilities. DoD would be a customer of the new landfill and would pay tipping fees. Guam needs to arrange the tipping fees such that they will sustain the landfill for all aspects, including operations, maintenance, closure, financing for future expansion or replacement, etc. The EIS contains an estimate of the volume of waste expected from DoD. Knowing the tipping fee, the landfill operator should be able to estimate the amount of revenue they would receive. If required, Guam should pursue Congressional funding from other sources. A sustainable business approach to solid waste needs to be adopted by Guam.
- 2. Hazardous Materials: The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including fuels, lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, PCBs, and other hazardous substances. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible, substituting them for less toxic substances, and to recycle whenever possible. When using hazardous substances, environmental laws and regulations

TRANSPORTATION MAINTENANCE DIVISION Draft Environmental Impact Statement (DEIS) Vol. 4 and Vol. 5

Vol. 4 - No Adverse Impact

Vol. 5 - No Adverse Impact

TRANSPORTATION MAINTENANCE DIVISION Draft Environmental Impact Statement (DEIS) Vol. 6 and Vol. 7

J-021-052

Vol. 6 and Vol 7 — Will not have an immediate impact on TMD. However it will have an impact on DPW Hwy. Maintenance, Federal Hwys and Engineering section. With the lack of personnel vehicles and equipment to perform there duties and responsibilities these division will not be able to keep up with the demand thus causing delays on projects. And as these divisions start to build up in personnel, vehicles and equipment then this will have an impact on TMD. DPW as a whole is not prepared for the impact regarding the road projects and infrastructure up grades

TRANSPORTATION MAINTENANCE DIVISION
Draft Environmental Impact Statement (DEIS)
Vol. 8 and Vol. 9

Vol. 8 and Vol 9 - No adverse impact VOL 6, VOL 7

ADMIN - Page 9 of 21

(e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and regulations, DoD has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage, spill, or release of hazardous/toxic substances. These BMPs, SOPs, and other controls are fully described in the EIS document (Volume 7). Note that BMPs and SOPs are not considered "mitigation measures" because these actions are being done as part of existing laws and regulations and not as part of new "mitigation". However, if a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are mitigated quickly and effectively. In many cases, part of remediation plan includes

the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. In fact, many such clean-up efforts are underway. As part of the clean-up process, the DoD provides various opportunities for the general public, stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs) where interested party questions and concerns may be communicated. These comprehensive actions (e.g., BMPs, SOPs, etc.) will protect public health, welfare, and the



DEPARTMENT OF PUBLIC WORKS

Draft Environmental Impact Statement (DEIS)

VOLUME 8

environment from adverse impacts associated with the use of hazardous substances.

- 3. Operational Costs: Please see response to item 1 above within this comment.
- 4. Receivership Involvement: The FEIS is not required to address the status of the receivership. The preferred alternative for solid waste disposal only involves the receivership to the extent that DoD will use the new Layon Landfill. It would be expected that Gov Guam and DPW coordinate with the receiver and the courts to effect a logical handoff for the time when the operations revert to Gov Guam. This is not a DoD issue.

J-021-050

Thank you for your comment. Section 2.5.1.6, Safety, in Volume 6 of the FEIS has been updated as suggested.

J-021-051

Thank you for your comment. The text in the FEIS has been revised to incorporate the information provided.

J-021-052

Thank you for your comment. The off-base roadway projects may be funded through requests under the Defense Access Road (DAR) Program and annual allocations through the FHWA. The Defense Access Road Program provides the means for the Department of Defense to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement. These projects will be procured through the Guam DPW. Funds for supervision, inspection and overhead is included in the budget requests.







Lawrence P. Peres Director adrew S. Leon Guerrero Deputy Director

February 1, 2010

Memorandum

To:

Director

Deputy Director

All Division Managers

From:

Arleen U. Pierce, Controller

Subject:

Draft Environmental Impact Statement (DEIS)

(Report number 5)

Buenas yan Hafa Adai!

Transmitted herewith for your review and action are DPW's response to the DEIS related to Volume 8. The attached responses were received from the following divisions:

- Administration
- Building Construction & Facilities Maintenance
- Transportation Maintenance No submission
- Office of Highway Safety

To date, we have not received any response from the Highways (with the exception of Mario Garia), Solid Waste and CIP Division.

Also, attached to this memo is the minutes of DPW 's Legislative Hearing held on January 28, 2010.

Should there be any questions regarding this memorandum, please feel free to contact me at 646-3154 or the Fiscal office at 646-3231.

Un Dangkulo Na Si Yu'os Ma'ase.

Attachments

542 North Marine Corps Drive, Tarnuning Guarn 96913 ● Tel (671) 646-3131 ● Fax (671) 649-6178MIN - Page 1 of 12

Department of Public Works Division of Administration **DEIS Reporting Requirements - DPW Director Division Submission Checklist**

Division	Division Head	Point of Contact	Report 1	Report 2	Report 3	Report 4	Report 5	Report 6
Administration	Arleen Pierce	Arleen Pierce	٧	٧	٧	٧	٧	٧
Building Maintenance	Dominic Muna	Barbara Purugganan	٧	٧	٧	٧	٧	٧
Bus Operations	Franklin Taitano	Julie Manglona	٧	-	-		-	-
Capital Improvement	Ramon Padua	Eleanor Borja	-	-	· ·	-	-	-
Highway Maintenance	George Bamba	Elizabeth Barcinas	-	-	-	-	-	-
Highways & Parsons*	Joaquin Blaz	Parsons	-	-	-		-	-
righways & Parsons*		Mario Garcia*	٧	٧	٧	٧	٧	٧
Solid Waste	GBB	Chace Anderson	-	-	-	-	-	-
Transportation	Paul Cepeda	Sandra Perez	٧	٧	٧	V	٧	٧
Office of Highway Safety	Cil Javier	Cil Javier	-	٧	٧	V	٧	V
*Mario Garcia provided suppo	rt to the DEIS project.		1					

Footnotes:

As of February 1, 2010

Report #2 (due 12/31/2009) Volume 1 & 9, Readers Guide and Executive Summary Reprot #2 (due 01/08/2010) Volume 2 & 3 Report #3 (due 01/15/2010) Volume 4 & 5

Report #4 (due 01/22/2010) Volume 6 & 7
- Report #5 (due 01/29/2010) Volume 8

Report #6 (due 02/05/2010) All Volumes

VOL 8

ADMIN - Page 2 of 12

P.1/5

DPW Legislative Hearing - DEIS Jan.28, 2010 Thursday 6:00-9:00 pm Senator Tom Ada (minutes)

Legislative Hearings Departments

- 1. Department of Public Works
- 2. Guam Regional Transit Authority (DOA)
- 3. Port Authority of Guam

DPW

Presentation were done by Director Larry Perez, Deputy Director, Andy Leon Guerrero & Kin Blaz Highway Division. Kin provided a power-point presentation Volume 6 highlights.

CIP Inspectors, Software

Training – IBC codes

DPW Building Fund - Fees Permit goes to Guam Preservation Trust

Bus Division need 53 new Buses with a budget of \$10 million.

GHF Govt. Funds & Divisions funded by Liquid Fuel Taxes.

- 1. GHF
- 2. CIP
- 3. BM

Question & Answer's (Senator's)

Senator Palacious:

 Traffic- Controlling the number of vehicles for mitigating number of traffic flow.

Senator BJ Cruz:

- Over Ametes Road in DEIS but not worded in 2030 plan. How much Land to be use? How much Land to use on GRN?
- 2. Will Perez and counsel determined how much land will be utilizing for Government Domain? Not at this juncture we are reviewing Land inventory = Gov't How much Land needed?

VOL 8

ADMIN - Page 3 of 12

8.8/5

Build - up: DEIS does not address 21st Century mass transit transportation plan = Joey Manibusan

Senator Pangelinan

- Is Building Permit required from the Military?
 What are the military's requirement for within the base? Do we know types of activity are going on? If not, this is a deficiency within the DEIS documents.
- 2. Construction?
 - DEIS none
 - DEIS deficiency none written
- 3. \$50 million military approp. FY2010 Budget.

How much is for roads?

- About \$4 million, DPW is not yet doing this until ROD & pending NEPA
- No land for \$50 million.
- There is no improvement for traffic only guard rails & lanes painting
- DEIS \$1.7 billion for Construction for new roads & widening, Traffic improvement, realignments & Bridge repairs.
- 4. FY2008 Gov. request \$4.4billions from Fed's on state of the island address.
 - Per Larry Perez only \$1.7 billion.

Senator Gutherz

- 1. Did FHWA provide funding for this on build up? None
- Land next to two Lovers point + Home owners does not know: DPW is not responsible for this on DEIS. GovGuam does not want any land condensation. Per Gutherz there is a law on land needing authorize from legislature.
- Concern home owners don't know about land on DEIS for roads: Families do not know this.

Larry Perez:

- DPW did public hearing on 2030 plan with roads on land taking. Land talking will follow fed'l and local request.
- Land Condemnation = Legislature to approve or disapprove
- Includes land acquisitions

Senator Telo Taitague

- 1. Mass Transit
- 2. Water run Off Flooding on lowland area, what is DOD going to do?

VOL 8

ADMIN - Page 4 of 12

1.3/5

<u>Larry Perez:</u> It is included as part of the \$1.7 billion all NEPA requiring.

Ex. Yigo area – need mitigation next to military area.

3. Number of student on Buses 6K, How much are compact kids?

Senator Tom Ada

 Cost estimate for various roads to be constructed on slides: Cost may be on low side price does not include acquiring of land.

Larry Perez:

Cost is added on as part of the project cpst to include - ROW at a cost 2%.

2. 2030 master plan

Routes 1,15,8

Connecting the roads. Ex: Perez Acres Gayrinora Road. Perez Acre need c connecter road Route 8,10A,16 & 1, due to the much traffic.

DPW works with Tiyan & GIAA.

Question & Answer's (Audience)

- 1. PAG
 - Need a cruise liners for more tourism.
- 2. GMTA
- Better get the system up like Hawaii due to large tourist.
- 3. DPW
 - Build Bull cart trails built one in Tumon.

Joe Garrido

- DPW treat military like developer. They need to follow Guams Law.
- 2. Super Fund CIRCLA
- Guam Highways Fund Needs to be reassess GovGuam losing money. It does not go to present fund.
- Roads expansion GRN DPW & AG = Condensation in mitigation Domain. - Pagat Land = Firing Range
- 5. Does Guam have over Proof alternative besides the DEIS?

Peter Mayer

- 1. DPW Experiential
- 2. 2030 GTP is better than DEIS
 - ROWS law for community

VOL 8

ADMIN - Page 5 of 12

> با(د 1

- 3. Sidewalks & Bicycle Path
 - ROW = public transport, pedestrian and Bicycles
- 4. Reef Problem This is a cause for concern.

Adrian Cruz

- 1. Security agrees President Obama
 - Do we have the right to say yes or no? Is so, does the DEIS self determine.
- 2. Will GovGuam note for self determination?

Maria T.

- 1. Hazardous Materials PAG accident
- 2. DPW Roads
 - Housing / Utilities / Mass Transit / Bus stops Protect Condemnation

Taotao Pagat

Says no to DEIS, roads are already dangerous to much cars on road.

ED LG:

DPW

- 1. Highway funding failed to get more federal grants
- 2. DPW lost Solid Waste Landfill
- DPW not ready prioritize, connection routes and more roads.
- 4. Why DPW gives permit when there is safety issue?
- DPW Director on he's way out DPW needs more
 Administrations without proper training & education and experience.
 It's not what you know, it's who you know.
- DPW is not ready for this build up.
- DPW needs to control building permits.

Jeff Peck:

- Former Federal Employee & says can go thru
- Local requirements so that military will need to comply with local.

Sen. Ted Nelson:

 Compensations for land taking \$150 million land taking for schools, roads and no compensation no justice.

VOL 8

ADMIN - Page 7 of 12

p.5]

- Give Larry 5 FTE's for Land surveyors to help DPW

Caller: From Phone Bank

 Why only North and Central roads and none for South roads? Roads cannot be touched unless they go thru Right - of - way.

Rick Toves

DPW

- 1. Bicycle Trails DEIS
 - yes on 2030 GTP Route 4
- 2 Pedestrians
 - Will have cross walks
 - School Lanes
- 3. Carpool
 - Park & Ride
 - Add railroads to DEIS military

Hearing Adjoined 9:10 pm

VOL 8

DPW DEIS – Overall Review Notes Volume 8 2/1/10

Filename: DEIS review notesv6

VOLUME 8 Additional Items Required by NEPA

NO DIRECT IMPACT

Review notes comment:

J-021-053

1. Is Guam EPA ready to handle these hazardous materials clean up to ensure the people of Guam that our land, air, water and environment are all safe? What methods are used to perform the clean up functions and do they have enough staff to do the police work?

J-021-054

- There should be laws or existing laws that should have the Military obtain licenses fees and permits before any construction activities commence, so that the GovGuam will determine the compliance procedures to ensure public safety and Gov't wide planning.
- Funding is an issue for the DEIS military build up. We have no federal funds earmarked to ensure the build up is congressionally funded rather for GovGuam to absorb.
- 4. Compliance to all US laws such as NEPA and USEPA, etc are great benefits to the public. The roles and responsibilities of ensuring compliance procedures that gets confusing between the local and federal Gov't? Will Govguam get the necessary training and education to the first responder agencies such as USEPA, Fire dept, GPD, Agriculture, DPHSS and Customs?

VOL 8 ADMIN - Page 8 of 12

Guam and CNMI Military Relocation DEIS/OEIS

J-021-053

The DoD will be responsible for the safe handling and use of all hazardous materials and hazardous waste. In the event of an inadvertent spill, release, or leak the DoD will be responsible to ensure that clean-up occurs in an expedited manner and that risk to human health and the environment is minimized. GEPA's role is to oversee and monitor the actions of DoD regarding the use and potential clean-up of hazardous materials and hazardous wastes. In this capacity GEPA should have the resources to accomplish the oversight mission.

J-021-054

Thank you for your comment. Compliance with laws, regulations and policies is presented in Chapters 2 and 3 of Volume 8. Effects of the proposed action on staffing of GovGuam agencies is addressed in Chapter 16 of Volume 2. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

January 29, 2010

MEMORANDUM

TO:

Director, DPW

Arlene Pierce, Controller DPW

FROM:

Dominic Muna, Manager

Building Construction & Facility Maintenance

SUBJECT:

Division's Impact on Military Building "Draft on Environment Impact Statement

Buenas Yan Hafa Adai! Herewith impacts and comments are provided on the brief review of Volume 8 of subject draft as per your memo request dated 01/21/09 as due today.

In regards to Volume 8 on the Marine Corps Relocation - Guam, please reference the attached.

DMUNA/BCPURUGGANAN/MWILSON/bcp

Cc: Manager, MA, Engr, Supt., AO

VOL 8

ADMIN - Page 9 of 12

January 29, 2010

J-021-055

Volume 8: Under 5 and 6 Relationship between Short and Long-term Resources

This Volume is self explanatory although in application to the division the following should be integrated whether long-term or short term .

Short Term: Staging areas is still within the project footprint.

Long Term: Operations are expected to have a positive impact if planning is forecasted and anticipated.

Final Analysis:

Environmental Impact Assessment should focus more on the feasible, cost effective and alternative solution.

DMUNA/BCPURUGGANAN/MWILSON/bcp

Cc: Manager, MA, Engr, Supt., AO

ADMIN - Page 10 of 12

Guam and CNMI Military Relocation DEIS/OEIS

VOL 8

J-021-055

Thank you for your comment. Statements about the construction staging areas were added to short-term descriptions as appropriate. Chapter 6 of Volume 8 has been updated in the Final EIS based on the updated sustainability planning information.





OFFICE OF HIGHWAY SAFETY REVIEW & COMMENTS Draft Environmental Impact Statement (DEIS) 5thh Report January 29, 2010

I. DEIS Vol 8. - "No Adverse Impact"

II. DEIS Vol. 9 - "No Adverse Impact"

542 North Marine Drive, Tamuning Guarn 96913 ● Tel (671) 646-3131 / 3259 ● Fax (671) 649-6178
ADMIN - Page 11 of 12

DEIS REPORT - DPW ADMIN - VOL 1 & 9 JAN-5-2010

TRANSPORTATION MAINTENANCE DIVISION Draft Environmental Impact Statement (DEIS) Vol. 4 and Vol. 5

Vol. 4 - No Adverse Impact

Vol. 5 - No Adverse Impact

TRANSPORTATION MAINTENANCE DIVISION Draft Environmental Impact Statement (DEIS) Vol. 6 and Vol. 7

Vol. 6 and Vol 7 – Will not have an immediate impact on TMD. However it will have an impact on DPW Hwy. Maintenance, Federal Hwys and Engineering section. With the lack of personnel vehicles and equipment to perform there duties and responsibilities these division will not be able to keep up with the demand thus causing delays on projects. And as these divisions start to build up in personnel, vehicles and equipment then this will have an impact on TMD. DPW as a whole is not prepared for the impact regarding the road projects and infrastructure up grades

TRANSPORTATION MAINTENANCE DIVISION
Draft Environmental Impact Statement (DEIS)
Vol. 8 and Vol. 9

VOL Vol. 8 and Vol 9 - No adverse impact

ADMIN - Page 12 of 12



Government of Guam

Department of Public Works

Comments from Divisions

as Submitted



DEPARTMENT OF PUBLIC WORKS

Draft Environmental Impact Statement (DEIS)

Administration Division

DEPARTMENT OF PUBLIC WORKS Division of Administration Draft Environmental Impact Statement DEIS Executive Summary Review / Impact / Comments February 17, 2010

DIVISION OF ADMINISTRATION

				DIVISION OF ADMINISTRATION
	DESCRIPTION OF IMPACT	TEXT REFERENCE	PREFERRED ALTERNATIVE / MITIGATION	RECOMMENDATIONS
J-021-05	REPORT NO. 2 VOL 2, VOL 3 66 1. LAND Land acquisitions from private owners will be affected if the military wishes to develop a shooting range and other projects that requires more land. The DEIS does not discuss how the land will be acquired or the funding source to acquire.1.	VOL 2 Chapter 2	Military requires more land for use when current DOD owns 27% land on Guam. Military requires land for more roads.	1. Military should use the existing land that they currently owned and are not in used. 2. Acquisition land exchange or long term lease of land would be ideal rather than imminent domain without some form of compensation. 3. Land.
J-021-05	POLITION & TOXINS & NOISE A. Environmental concerns must be noted related to air, land and sea. The air we breathe, the plants livestock and fish, we eat. Coral will also affected from the major dredging for a new wharf.	VOL 4, 5, 6		
	The environment will all be contaminated from the ammunition projects and wharf activities.		We have no assurance from Federal and Local officials to motion compliance to federal laws. Dredging 600 ft. is Apra Harbor will remdy damage all habitat , corals, fish and other creatures.	Establish federal agency to conduct inspection quality assurance and enforce compliance to NEPA and all federal laws. Provide funding and training to GovGuam agencies to ensure compliance.
J-021-05	C. The noise related to construction and the ammunition will also affect the public and the nearby schools. The firing range proposed will be detrimental to Guam's natural resources and prime property hot spots thereby deterring tourism and other outdoor activities events as hiking, biking, swimming, fishing and hunting.			Relocate the firing range to Tinian. Why build a new firing range when the military should consolidate and use the current firing range.

Page 1 of 5

Guam and CNMI Military Relocation DEIS/OEIS

J-021-056

Thank you for your comment. The impact on DPW Highway Maintenance is anticipated to be minimal once the construction of the GRN is complete. The GRN projects include pavement strengthening and bridge/culvert replacements, where appropriate, which should result in improved roadways and consequently requiring less maintenance. Roadway widening projects will not only result to wider roads but also better pavement strength, which would also consequently require less maintenance. Additional maintenance would only be required for the proposed new road (Finegayan Connector).

J-021-057

Thank you for your comment. Effects of dredging and other actions on coral are addressed in Chapter 11 of Volume 2 and Volume 4. Mitigation measures associated with these impacts are summarized in those chapters and in Volume 7. The Record of Decision will specify the mitigation measures and associated monitoring efforts to be implemented by DoD.

J-021-058

Thank you for your comment. The Marine Corps investigated numerous possibilities for locations for the firing ranges including the alternatives you suggest. A firing range is proposed on Tinian for this action, but there would still need to be a range on Guam. The existing ranges were also investigated but determined that due to logistical and environmental reasons, there is insufficient space to add the requirements for training to these ranges. Mitigation measures for the proposed alternatives include foliage attenuation and barriers and are described in Volume 2, Chapter 6.2.8.

		DESCRIPTION OF IMPACT	TEXT REFERENCE	PREFERRED ALTERNATIVE / MITIGATION	RECOMMENDATIONS
J-021-05	59d.	DREDGING DAMAGES Our corals will be damaged due to all of the dredging required. More importantly the ocean will be affected and the sea creatures will no longer be living in that environment.	VOL 4 CHAPTER 11	The large acres of dredging should be carefully evaluated.	Damages from the dredging will be reverse. We will then have fewer creatures and our waters will not be as beautiful as it once was. The natural resources for corals and the surroundings will be negatively impacted. Diving, swimming, fishing and boating will prohibited in these areas.
J-021-0	503.	TRAFFIC Traffic will be affected through out the island not especially in the northern end (Andy South). Traffic will also include various construction vehicles including heavy military jeeps and other motor carrier. Road projects have been addressed within the DEIS but funding was not clearly defined.	VOL 1 VOL 6 CHAPTER 4	DEIS did not discuss funding to address their concern.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate.
	A.	ROADS There is a need to expand all the roads due to heavy traffic along Polaris Point. The traffic will include heavy equipment to regular automobiles for loading and unloading docks, etc.	VOL 6	DEIS did not discuss funding to address their concern.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate.
	€.	There are several incorrect references to maps within volume 6 of the DEIS that needs to be corrected. There were mutiple maps where the average user will have to go from page to page (rather than summary pages and linked per grids, etc). The maps were not user-friendly to layman readers; instead they appeared to be more confusing.	VOL 1 CHAPTER 2 PAGE ES-30	DEIS did not discuss funding to address their concern.	Funding should be provided and not "maybe".
	d.	Funding may be funded by FHWA or DOD.	VOL 1 CHAPTER 2 PAGE ES-30	DEIS did not discuss funding to address their concern.	Funding should be provided and not "maybe".
	С.	OHS ADDITIONAL FEDERAL GRANT FUNDINGS Will there be more federal grant funding from OHS to promote road safety?	VOL 6	DEIS did not discuss funding to address their concern.	Additional funding should be provided.
	€.	FUNDING ISSUES Who will be paying for what projects?	VOL 1 VOL 9	DEIS did not discuss funding to address their concern.	Funding should be provided.

Page 2 of 5

Guam and CNMI Military Relocation DEIS/OEIS

J-021-059

Thank you for your comment. A detailed compensatory mitigation plan would be submitted as part of the Clean Water Act 404 permit application for construction affecting the navigable waters of the United States (including the CVN transient wharf). Due to the ongoing review of DoD's habitat assessment methodology for coral reef ecosystems and associated uncertainties regarding the scope of mitigation required, a detailed mitigation plan has not been developed nor will one be available for incorporation into the FEIS. However, a number of mitigation options, including watershed restoration and the use of artificial reefs, are discussed in programmatic nature in Volume 4, Section 11.2 of the FEIS. DoD recognizes that, as part of the CWA Sec. 404 permitting process, additional NEPA documentation may be required to address specific permitting requirements and implementation of required compensatory mitigations.

J-021-060

Thank you for your comment. A mass transportation plan is part of the 2030 Guam Transportation Plan (GTP). The Guam Regional Transit Authority (GRTA) has the responsibility to carry out the plan established in the 2030 GTP. The Department of Defense will also be developing an on-base transit system and will coordinate with GRTA to have both systems work together. The airport is in the process of updating its master plan to accommodate the increased travel due to the military build up. The port has a master plan that address the increases in cargo transport due to the military build up.

The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the US Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DOD) to pay a fair share for public highway improvements required as a result of a sudden or unusual

	DESCRIPTION OF IMPACT	TEXT REFERENCE	PREFERRED ALTERNATIVE / MITIGATION	RECOMMENDATIONS
J-021-06	Waste Management will need to be reconfigured into the existing landfill plans to accommodate the huge influx of military and their dependents population. This will require a more specialized expert to review for reasonableness and adequacy.	VOL 6	Long term financing and funding from the military waste is not adressed in DEIS.	Request an appropriate from Congress to review the cost allocate from the military build up's share of about 30% to pay GovGuam for their share of the landfill in addition to the tipping fee charges.
	Will GovGuam receive any federal grants from military to help with our landfill costs since the military will be a large cliental? Guam will be financing the landfill closure and opening cost, but can the military provide some federal funding	VOL 6	DEIS did not discuss funding to address their concern.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate.
J-021-06	Customer demands for water and power will be tremendously increase due to the influx of the user population.	VOL 6	DEIS did not discuss funding to address their concern.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate.
	The Clean Water Act should be complied with as it can pass contamination into our sea food and sea animals and drinking water consumed by our human bodies and all other non human consumption.			
J-021-06	The Crime rates will increase due to the military population. The type of crimes include rape, theft, riots, human trafficking and dividing the influence of drugs and or alcohol will also be a huge factor for accidents. The increase in public safety to include border controls around our harbor for illegal immigrants or drug smuggling will also be needed.	VOL 2 VOL 9	DEIS did not discuss funding to address their concern.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate.
J-021-0	Hospital beds and health care & public health professionals will be in demand due to the influx of the outside labor of immigrants (construction related work force) population.	VOL 2 VOL 9	DEIS did not discuss funding to address their concern.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate.
	 SCHOOLS Increase in the student population will be affected. This will include all grade levels including higher education (college level). 	VOL 2 VOL 9	DEIS did not discuss funding to address their concern. In addition, DPW will need to provide additional school buses for the 6,000 new public school students.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate. It is estimated that we need 53 new buses costing at least \$10M to operate.

Page 3 of 5

defense-generated traffic impact or unique defense-related public highway requirement.

Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DOD commits to seeking funding for these projects. The Department of Defense, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to seek solutions to island-wide traffic issues.

The traffic impacts along Polaris Point were studied as part of the DEIS. The traffic volumes did not warrant any widening along this corridor.

The incorrect references have been corrected in the FEIS.

OHS funding is dependent upon the amount of lane miles. The amount of lane miles will not be increased and therefore additional funding will not be provided.

J-021-061

Thank you for your comment. Tipping fees that the DoD would pay to dispose of solid waste in the new landfill would be used to pay for the construction of the landfill and repayment of bond that Guam borrowed to construct the new landfill. DoD has signed a Letter of Intent to use the new Guam Landfill for the disposal of municipal solid waste.

J-021-062

Thank you for your comment. DoD is aware of the potential increases to utility demands from the indirect civilian population growth. Assessment of the impacts of this indirect demand has been added to the final EIS. While DoD is legally limited in how it can spend its budget, DoD has agreed to lead a federal interagency task force to seek resources to assist Guam in implementing solutions to its infrastructure in preparation

	DESCRIPTION OF IMPACT	TEXT REFERENCE	PREFERRED ALTERNATIVE / MITIGATION	RECOMMENDATIONS
J-021-064 s.	Increase in the job market in both the private and public sectors. GovGuam will need to hire more staff in the areas of health care, law enforcement, teachers, engineer inspections, safety and security personnel.	VOL 2 VOL 9	DEIS did not discuss funding to address their concern.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate.
J-021-0 65 _{10.}	PUBLIC TRANSPORTATION The need for reliable mass ground transportation is required. In additional, the airport and commercial ports must also be expanded due to increase in population for travelers and for all commodities being shipped into Guam for public consumption or for use.	VOL 2 VOL 6 vol 9	DEIS did not discuss funding to address their concern.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate.
J-021-06 <u>6</u>	TOURISM The tourist industry will be affected as the population as the population increases. This means more people waiting in long lines in restaurant and other recreational facility and high occupancy rates for hotel and airline carrier. Due to the closeness of Tinian and Saipan to Guam, the military personnel and their families can come to Guam to visit. This will result in an increase in the number of tourist not only from the Asia market. Hotels, rental cars, restaurants and recreation will need to accommodate more customers.	VOL 2 VOL 3	The tourist market will be affected since Guam's natural resources, oceanic, land and outdoor activities will be dismissed due to the military's needs. The DEIS addressed this issue.	Congress should appropriate federal funds to Guam to compensate for this losses. Moreover, there is no price tag to bench market this types of loss.
J-021-0672	COMMERCIAL PORT There will be a need for expansion for Guam's commerical port due to the influx of the population. Large cargos with various commodities will be shipped to Guam.	VOL 2	DEIS did not discuss funding to address their concern.	Funding should be provided.
J-021-068 <u>:</u>	ENVIRONMENTAL CONCERNS RELATED TO POLLUTION & TOXINS Environmental concerns must be noted for the occurrence of heavy traffic, light and heavy equipment, and military mobilization and construction materials and vehicles in which pollution will be major factor. The pollution related to air, land and sea may be impacted here on Guam. The air we breathe, the plants we eat, the deer, chickens, pigs and all livestock and the fish, seafood we eat. The remains of the ammunition and dredging equipment will affect our vegetation as the wind will be a factor in passing on the residues.	VOL 9	DEIS did not discuss funding to address their concern.	GovGuam does not have this specialized team. The need funding to train and to hire staff for GEPA to ensure public's safety and environmental effects.

Page 4 of 5

for the proposed DoD buildup. This commitment has been added to the EIS.

J-021-063

Thank you for your comment. There are many reasons why the Marines (about half) are being moved from Okinawa. This discussion is provided in section 3.5.2 of the Socioeconomic Impact Assessment Study (SIAS) that is in Appendix F, Volume 9 of the Draft EIS. Serious crimes by military personnel in Okinawa are committed at a lower rate than the overall civilian population in Okinawa, despite reports to the contrary. Many serious crimes are based on singular incidents that are reported multiple times so that it appears to be multiple incidents.

The impacts of crimes on Guam are discussed in Volume 2 of the FEIS. As noted in the SIAS: "A critical distinction when analyzing crime impacts is between the total numbers of crimes ("volume of crime") and the actual crime rate (numbers divided by population). Population increases always bring with them increases in the volume of crime, but the crime rate would increase only if new populations are disproportionately likely to commit crimes."

The DoD acknowledges that any increase in population, such as the one that these proposed actions would cause, may be accompanied by a proportionate increase in crime and social disorder. The DoD also acknowledges that widely publicized instances of military crime in Okinawa cause Guam residents to be concerned about possible repercussions on the island brought about by the increase in military population on Guam. The increase in population during the construction phase of the build up is recognized as a time for concern for increases in incidents of crime. Moreover, it is also acknowledged that the age group of many military personnel is often characterized as prone to conflicts and misbehavior. DoD educates its service men and woman on good behavior and will act promptly and rigorously to curtail any misconduct

24 1442			
DESCRIPTION OF IMPACT	TEXT REFERENCE	PREFERRED ALTERNATIVE / MITIGATION	RECOMMENDATIONS
. NOISE			
Noise from the construction build up and the firing ranges will also be a factor.	VOL 1 EXECUTIVE SUMMARY	The DEIS did not determine how.	GovGuam does not have this specialized team. The need funding to train and to hire
Moreover, the firing range is located within a residential and a school district region.	307711171111		staff to ensure safety concerns are addressed.
. HAZARDOUS MATERIALS WASTE MANAGEMENT			
We should also anticipate accidents such as oil spills, radiation/nuclear spillage or leakage, gas spills, etc. We need a specialized team for this type of clean up as it can provide serious health issues such as cancer, etc.	VOL 1, 9 VOL 6	DEIS did not discuss the long term financing and funding to accommodate military as a significant chertile.	Request an appropriate from Congress to GovGuam GEPA to hire or train staff for hazardous materials cleanup and to ensure compliance.
			There will be a need for clean up due to kinds of hazardous materials related to the dredging. This will also require a haz mat team who are trained to do the clean up spills.
What are the mitigations related to all hazardous materials related to construction, ammunition and other environmental waste? Is there a materials management spill response plan, treatment and handling, mitigation plans, etc? Establish reasonable pricing policies for community services to include military customers? Is there a recycling and waste program?			
. MASS TRANSPORTATION & SCHOOL BUSES			
Due to the increase in population, mass transit buses and school buses will have to increase as well to accommodate the public demand. Bus stops are also in need throughout the whole island.	VOL 2	DEIS did not discuss funding to address their concern.	DPW NEEDS \$10 million to purchase 53 busses for 6K additional student's.
. PROJECT COST			
What is the cost breakdown per projects? What is the scope of work? Will we be outsourcing 100% of the work? How much will DPW receive for each project, direct cost, indirect cost and administrative costs? How are the funds being received by electronic funds transfer or by US postal service?	VOL 6	DEIS did not discuss funding to address their concern.	Request an appropriate from congress to GovGuam for their share in preparing us for this mandate.
	Noise from the construction build up and the firing ranges will also be a factor. Moreover, the firing range is located within a residential and a school district region. HAZARDOUS MATERIALS WASTE MANAGEMENT We should also anticipate accidents such as oil spills, radiation/nuclear spillage or leakage, gas spills, etc. We need a specialized team for this type of clean up as it can provide serious health issues such as cancer, etc. What are the mitigations related to all hazardous materials related to construction, ammunition and other environmental waste? Is there a materials management spill response plan, treatment and handling, mitigation plans, etc? Establish reasonable pricing policies for community services to include military customers? Is there a recycling and waste program? MASS TRANSPORTATION & SCHOOL BUSES Due to the increase in population, mass transit buses and school buses will have to increase as well to accommodate the public demand. Bus stops are also in need throughout the whole island. PROJECT COST What is the cost breakdown per projects? What is the scope of work? Will we be outsourcing 100% of the work? How much will DPW receive for each project, direct cost, indirect cost and administrative costs? How are the funds being received by electronic funds transfer or by US postal	Noise from the construction build up and the firing ranges will also be a factor. Moreover, the firing range is located within a residential and a school district region. HAZARDOUS MATERIALS WASTE MANAGEMENT We should also anticipate accidents such as oil spills, radiation/nuclear spillage or leakage, gas spills, etc. We need a specialized team for this type of clean up as it can provide serious health issues such as cancer, etc. What are the mitigations related to all hazardous materials related to construction, ammunition and other environmental waste? is there a materials management spill response plan, treatment and handling, mitigation plans, etc? Establish reasonable pricing policies for community services to include military customers? Is there a recycling and waste program? MASS TRANSPORTATION & SCHOOL BUSES Due to the increase in population, mass transit buses and school buses will have to increase as well to accommodate the public demand. Bus stops are also in need throughout the whole island. PROJECT COST What is the cost breakdown per projects? What is the scope of work? Will we be outsourcing 100% of the work? How much will DPW receive for each project, direct cost, indirect cost and administrative costs? How are the funds being received by electronic funds transfer or by US postal	NOISE Noise from the construction build up and the firing ranges will also be a factor. Moreover, the firing range is located within a residential and a school district region. HAZARDOUS MATERIALS WASTE MANAGEMENT We should also anticipate accidents such as oil spills, radiation/nuclear spillage or leakage, gas spills, etc. We need a specialized team for this type of clean up as it can provide serious health issues such as cancer, etc. What are the mitigations related to all hazardous materials related to construction, ammunition and other environmental waste? Is there a materials management spill response plan, treatment and handling, mitigation plans, etc? Establish reasonable pricing policies for community services to include military customers? Is there a recycling and waste program? MASS TRANSPORTATION & SCHOOL BUSES Due to the increase in population, mass transit buses and school buses will have to increase as well to accommodate the public demand. Bus stops are also in need throughout the whole island. PROJECT COST What is the cost breakdown per projects? What is the scope of work? Will we be outsourcing 100% of the work? How much will DPW receive for each project, direct cost, indirect cost and administrative costs? How are the funds being received by electronic funds transfer or by US postal

Page 5 of 5

and enforce laws to protect the citizens of Guam and our military personnel.

J-021-064

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of many social services on Guam and the interest to have DoD fund improvements to these services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-021-065

Thank you for your comment. A mass transportation plan is part of the 2030 Guam Transportation Plan (GTP). The Guam Regional Transit Authority (GRTA) has the responsibility to carry out the plan established in the 2030 GTP. The Department of Defense will also be developing an on-base transit system and will coordinate with GRTA to have both systems work together. The airport is in the process of updating its master plan to accommodate the increased travel due to the military build up. The port has a master plan that address the increases in cargo transport due to the military build up.

The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations through the US Department of Transportation (USDOT) Federal Highway Administration. The Defense Access Road Program provides the means for the Department of Defense (DOD) to pay a fair share for public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement. Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DOD commits to seeking

Draft Environmental Impact Statement (DEIS) Review / Impact / Comments As of Feb.10, 2010

Report No. 1 Volume 1 & 9

Island -wide Infrastructure:

Highway:

Roadway/Highways/Village Streets (primary/secondary/arterial roads)

Infrastructure:

Bridges/Ponding Basins/Land

Acquisition/Condemnations/Sidewalks/Bus Shelters

Capital Improvement Projects:

Professional/Technical/Engineer/Architects/Construction/Inspect ion support for Government infrastructure projects

Public Safety

Roads/Highways Safety (signs/marking/signal/traffic signs/street lights/guardrails/roadways clearing and maintenance)

Construction/Building Safety (building permits/inspection/building safety code/flooding hazard mitigation assistance)

Public Health

Solid Waste Management (residential/commercial trash/white goods/tires/metallic/others/emergency debris cleanup) - Environmental concerns

Transportation

Public transportation (island-wide bussing of pupils/students/other emergency community and mass transit for public services)

Government-Wide Support

Public Support (building/infrastructures/recreation facilities/emergency community assistance and maintenance)

Resources, administration, maintenance support services, repairs, construction services and custodial work for government buildings and facilities

funding for these projects.

The Department of Defense, Guam Department of Public Works and Federal Highway Administration are continuing to work together to identify projects eligible for funding under the DAR program. The DoD will lead an interagency council which includes the USDOT to seek solutions to island-wide traffic issues.

J-021-066

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process. This information becomes part of the Final EIS and is evaluated when DoD prepares the Final EIS and issues a Record of Decision at the end of the National Environmental Policy Act (NEPA) process. Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-021-067

Thank you for your comment. Funding for the Port's improvements (modernization) and expansion is anticipated to come from various federal agencies, GovGuam, and private sources. The funds for capital improvements would likely be repaid through user fees that would then be passed on to consumers, businesses, and other entities (i.e., DoD). DoD will work with the Port to identify possible sources of federal funds. While DoD is not directing the Port improvements, an amendment to the 2010 Defense Appropriations Bill is proposed in Congress which calls for the transfer of \$50M of DoD FY10 funds to the Department of Transportation to fund Phase I of the port improvements.

J-021-068

Thank you for your comment. Effects of the proposed action on staffing of GovGuam agencies is addressed in Chapter 16 of Volume 2. The

Draft Environmental Impact Statement (DEIS) Review / Impact / Comments As of Feb.10, 2010

DPW Operating Cost and Revenue Enhancement

Personnel/Operating Costs (increase in number of personnel, increase in Equipment & Capital-Outlay, and increase in Contractual Services for expert Consultants and/or outsourcing)

Budgetary Funding Source

Budget increase to meet direct project cost. DPW funding sources consist of the following fund type:

- · General Funds-from Legislature's General Fund appropriation
- · Guam Highway Funds-from liquid fuel taxes
- · DPW Building & Design Fund-from building fees
- · Abandoned Vehicle Streetlights Fund-Motor Vehicle license fees
- · Solid Waste Fund-Tipping Fees
- Federal Grants In Aide FGIA (FHWA, OHS, USDOI) Federal Grants Award
- 1 How much is FHWA & Us DOD going to fund our projects?
 - A. How much will our construction cost?
 - B. Will the cash be received instantly or will it be in form of drawdown? If drawdowns are used, will it be in electronic EFT form so that cash will be transferred quickly to Govquam?
 - C, Do we have the necessary grant awards in place?
- 2 Does the 2030 Highway master plan include the Military Build-up, as part of it's original (population growth) assumptions.
- 3 Need technical advice & review by specialist. GBB for Solid Waste Parsons for Roadway Projects Legal assistance Other Professional
- Breakdown of the 58 Roadway projects
 Cost per Projects
 Project name
 Scope
 Funding source
 Mans
- Volume 9 Appendices: does not include cost Analysis

2

Record of Decision will specify the mitigation measures and associated monitoring efforts to be implemented by DoD.

J-021-069

Thank you for your comment. Several mitigation measures are proposed. Adaptive program management for construction would stretch out construction time and alleviate construction noise by reducing the number of construction equipment on site at any one time, but the impacts would have a longer duration. Foliage and Barrier Attenuation would reduce noise impacts associated with the Route 15 firing ranges. Volume 2, Chapter 6.2.8 has been revised to include these mitigation measures and presents the effect of the mitigations. These mitigation measures have also been added to Volume 7, Chapter 2.

J-021-070

The DoD is committed to the protection and responsible stewardship of the environment. In addition, the DoD is committed to the safe handling and use of all hazardous substances, including fuels, lubricants, solvents, munitions and explosives of concern (MEC), nuclear materials, pesticides, herbicides, PCBs, and other hazardous substances. In fact, when feasible, the DoD attempts to reduce or eliminate the use of various hazardous substances to the greatest extent possible and substituting them for less toxic substances. When using hazardous substances, environmental laws and regulations (e.g., RCRA) must be followed by DoD that are designed to be protective of human health, welfare, and the environment. In order to implement these laws and regulations, DoD has developed various procedures, protocol, and directives designed to proactively eliminate or minimize the inadvertent leakage, spill or release of pollutants to the environment. These actions involve comprehensive administrative, engineering, and operations mandates, best management practices (BMPs), standard operating procedures (SOPs), and controls in place to prevent or minimize the inadvertent leakage, spill, or release of hazardous/toxic substances.

Draft Environmental Impact Statement (DEIS) Review / Impact / Comments As of Feb.10, 2010

Rick's Question

- * What impact is expected with the military build-ups?
- * How is it going to benefit the island?
- * Are the roads going to minimize and utilize by military only?
- * What routes are the military going to use for
- transportation for there machines and artillieries?
- * How do we know if the money given by the US is going to be use for the structure needed?

Is the governor and senators going to play a role in this build-up?

- Route 15 after passing Andersen South to Yigo highway site before the yigo drag strip need pave for parking lots and streetlights for safety measures.
- Route 17 cross island road also a hiking site to Sigua and Tarzan Falls same projects needed as route 15.

Report No. 2 - Volume 2 & 3

J-021-073

1. LAND

Land acquisitions from private owners will be affected if the military wishes to develop more projects that requires more land. Acquisition, land exchange or long term lease of land would be ideal rather than imminent domain without some form of compensation

2. ENVIRONMENTAL CONCERNS RELATED TO POLLUTION & TOXINS & NOISE

Environmental concerns must be noted related to air, land and sea. The air we breathe, the plants livestock and fish, we eat. Coral will also affected from the major dredging for a new wharf. The environmental will all be contaminated from the ammunition projects and wharf activities. The noise related to construction and the ammunition will also affect the public.

3. TRAFFIC

Traffic will be affected through out the island not especially in the northern end (Andy South). Traffic will also include various construction vehicles including heavy military jeeps and other motor carrier. Road projects have been addressed within the DEIS.

4. SOLID WASTE MANAGEMENT

Waste Management will need to be reconfigured into the existing landfill plans to accommodate the huge influx of military and their dependents population. This will require a more specialized expert to review for reasonableness and adequacy.

3

These BMPs, SOPs, and other controls are fully described in the EIS document (Volume 7). Note that BMPs and SOPs are not considered "mitigation measures" because these actions are being done as part of existing laws and regulations and not as part of new "mitigation". However, if a leak, release, or spill is suspected or confirmed, aggressive mitigation measures are used to first clean up the leak, spill, or release as quickly as possible, followed by an assessment of risks to the public and/or the environment and a plan to remediate these risk concerns to within regulatory acceptable levels. These actions generally include environmental media (e.g., groundwater, surface water, soil, air, and/or biota) sampling and monitoring to ensure that and hazards are mitigated quickly and effectively. In many cases, part of remediation plan includes the requirement to perform regularly scheduled long-term sampling and monitoring of environmental media to ensure that remedial actions have been effective. If long-term monitoring indicates that risks to human health or the environment are still unacceptable, more aggressive remediation approaches are considered. In fact, many such clean-up efforts are underway. As part of the clean-up process, the DoD provides various opportunities for the general public, stakeholders, and other interested parties to get involved in the process. One such opportunity is Restoration Advisory Boards (RABs) where interested party questions and concerns may be communicated. For information on the status of the cleanup efforts of specific hazardous waste sites, the associated RAB provides a vehicle to obtain such information and for the general public/stakeholders to voice their concerns.

These comprehensive actions (e.g., BMPs, SOPs, etc.) will protect public health, welfare, and the environment from adverse impacts associated with the use of hazardous substances.

The DoD will be responsible for the safe handling and use of all hazardous materials and hazardous waste. In the event of an inadvertent spill, release, or leak the DoD will be responsible to ensure that clean-up occurs in an expedited manner and that risk to human

Draft Environmental Impact Statement (DEIS) Review / Impact / Comments As of Feb.10, 2010

J-021-073

5. UTILITIES AND WATER AND WASTEWATER

Customer demands for water and power will be tremendously increase due to the influx of the user population. DEIS has addressed some of the concern.

6. PUBLIC SAFETY

human trafficking and dividing the influence of drugs and or alcohol will also be a huge factor for accidents. The increase in public safety to include border controls around our harbor for illegal immigrants or drug smuggling will also be needed.

7. HOSPITALS & CLINICS

Hospital beds and health care & public health professionals will be in demand due to the influx of the outside labor of immigrants (construction related work force) population.

8. SCHOOLS

Increase in the student population will be affected. This will include all grade levels including higher education (college level).

9. LABOR FORCE

Increase in the job market in both the private and public sectors. GovGuam will need to hire more staff in the areas of health care, law enforcement, teachers, engineer inspections, safety and security personnel.

10. PUBLIC TRANSPORTATION

The need for reliable mass ground transportation is required. In additional, the airport and commercial ports must also be expanded due to increase in population for travelers and for all commodities being shipped into Guam for public consumption or for use.

11. TOURISM

The tourist industry will be affected as the population as the population increases. This means more people waiting in long lines in restaurant and other recreational facility and high occupancy rates for hotel and airline carrier.

4

health and the environment is minimized. Appropriate funding will be granted to ensure that DoD may accomplish this mission.

J-021-071

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-021-072

Thank you for your comment. Please see response to J-022-068.

J-021-073

Thank you for your comment. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short-term impacts of construction are managed effectively and that the long-term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

Draft Environmental Impact Statement (DEIS) Review / Impact / Comments As of Feb.10, 2010

12. REVENUES

DPW should increase our exiting fees so that we can sustain our needs related to Labor Cost & other operational costs. In additional, bonds funds related CIP and infrastructure projects should be made available. We should adopt an aggressive generating revenue fees for the following:

- · Liquid Fuel Taxes
- · Motor Vehicles License Fees
- · Building & Design Permits Fees
- · Solid Waste Tipping Fees
- · Bus Fares (Field Trips)
- · Increase our Federal Grant Awards from
- USDOT
- FHWA
- NHTSA
- USDOI

VOLUME 3 Tinian

J-021-074

1. TOURISM

Due to the closeness of Tinian and Saipan to Guam, the military personnel and their families can come to Guam to visit. This will result in an increase in the number of tourist not only from the Asia market. Hotels, rental cars, restaurants and recreation will need to accommodate more customers.

2. ENVIRONMENTAL CONCERNS RELATED TO POLLUTION & TOXINS

Environmental concerns must be noted even if the training ranges are in Tinian. The pollution related to air, land and sea may be impacted here on Guam. The air we breathe, the plants we eat, the deer, chickens, pigs and all livestock and the fish, seafood we eat.

The remains of the ammunition will affect our vegetation as the wind will be a factor in passing on the residues.

3. TRAFFIC

Traffic will be affected from more tourist as well as the population growth of military and all other influx of people.

4. UTILITIES AND WATER AND WASTEWATER

Customer demands will be tremendously increase due to the influx of the user population.

Ocean water will be affected with the ammunition firing range in Tinian. The Clean Water Act should be complied with as it can pass contamination from Tinian to Guam and to other neighboring islands.

5

Guam and CNMI Military Relocation DEIS/OEIS

J-021-074

Thank you for your comment. 1) There is no permanent military population proposed on Tinian or Saipan as part of the proposed action of Volume 3. Training ranges on Tinian would be utilized by Marines stationed in Guam. 2) Chapter 17 of Volume 3 discusses standard operating procedures and best management practices which would be implemented when dealing with hazardous materials and waste. 3) Traffic impacts are discussed in Chapter 4 of Volume 6 for Guam and Chapter 14 of Volume 3 for Tinian. 4) Chapter 4 of Volume 3 analyzes the impacts to water resources. 5 and 6) Impacts relating to Crime and Health Care on Guam are discussed in Chapter 16 of Volume 2.

Draft Environmental Impact Statement (DEIS) Review / Impact / Comments As of Feb.10, 2010

J-021-074

5. CRIME

Crime rates will increase due to the military population.

6. HOSPITALS & CLINICS
Hospital beds and health care & public health professionals will be in demand due to the influx of the outside labor of immigrants (construction) population.

Draft Environmental Impact Statement (DEIS)
Review / Impact / Comments
As of Feb.10, 2010

J-021-075 Report No. 3 - Volume 4 & 5

VOLUME 4 Aircraft Carrier Berthing

1. TOURISM

Due to the closeness of Tinian and Saipan to Guam, the military personnel and their families can come to Guam to visit. This will result in an increase in the number of tourist not only from the Asia market. Hotels, rental cars, restaurants and recreation will need to accommodate more customers.

2. ENVIRONMENTAL CONCERNS RELATED TO POLLUTION & TOXINS

Environmental concerns must be noted even if the training ranges are in Tinian. The pollution related to air, land and sea may be impacted here on Guam. The air we breathe, the plants we eat, the deer, chickens, pigs and all livestock and the fish, seafood we eat.

The remains of the ammunition and dredging equipment will affect our vegetation as the wind will be a factor in passing on the residues.

3. WATER AND WASTEWATER

Customer demands will be tremendously increase due to the influx of the user population.

Ocean water will be affected with the dredging requirements. In addition, the Clean Water Act should be complied with as it can pass contamination into our sea food and sea

animals and drinking water consumed by our human bodies and all other non human consumption.

4. DREDGING DAMAGES

Our corals will be damaged due to all of the dredging required. More importantly the ocean will be affected and the sea creatures will no longer be living in that environment.

We will then have fewer creatures and our waters will not be as beautiful as it once was.

The natural resources for corals and the surroundings will be negatively impacted. Diving, swimming, fishing and boating will prohibited in these areas.

5. HAZARDOUS MATERIALS WASTE MANAGEMENT

There will be a need for clean up due to kinds of hazardous materials related to the dredging. This will also require a haz mat team who are trained to do the clean up spills. We should also anticipate accidents such as oil spills,

7

Guam and CNMI Military Relocation DEIS/OEIS

J-021-075

Thank you for your comments. These issues are addressed in the Final EIS. The table of contents in each of the Volumes provides the location of the resource discussions that provides information on the existing conditions and environmental impacts associated with the implementation of the proposed military relocation program.

Draft Environmental Impact Statement (DEIS) Review / Impact / Comments As of Feb.10, 2010

J-021-075

6. ROADS

There is a need to expand all the roads due to heavy traffic along Polaris Point. The traffic will include heavy equipment to regular automobiles for loading and unloading docks, etc.

7. COMMERCIAL PORT

There will be a need for expansion for Guam's commercial port due to the influx of the population. Large cargos with various commodities will be shipped to Guam.

VOLUME 5 Army Air and Missile Defense Task Force

Concerns are the same as above Numbers 2, 3, & 5

Report No. 4 - Volume 6 & 7

VOLUME 6 Utilities and Roadway Projects

FOOTNOTES:

- A. There are several incorrect references to maps within volume 6 of the DEIS that needs to be corrected. There were multiple maps where the average user will have to go from page to page (rather than summary pages and linked per grids, etc). The maps were not user-friendly to layman readers; instead they appeared to be more confusing.
- B. We need to obtain copies of the deliverables from the Matrix consultant to further analyze volumes 6 & 7 of the DEIS documentations.
- C. This is a specialized subject matter area that requires professionals to review from the various capacities such as the current consultants (Parsons) and their sub-contractors, FHWA, lawyers, environmentalist, engineers, architects, CIP, inspectors, financial and other experts within the highway industry.
- D. The methodologies adopted within this volume such as the Level of Service, traffic management analysis, were adequately presented and documented to support each alternatives/assessments within the DEIS study.

8

Draft Environmental Impact Statement (DEIS)
Review / Impact / Comments
As of Feb.10, 2010

J-021-075

1. ENVIRONMENTAL CONCERNS RELATED TO POLLUTION & TOXINS

Environmental concerns must be noted for the occurrence of heavy traffic, light and heavy equipment, and military mobilization and construction materials and vehicles in which pollution will be major factor. The pollution related to air, land and sea may be impacted here on Guam. The air we breathe, the plants we eat, the deer, chickens, pigs and all livestock and the fish, seafood we eat. The remains of the ammunition and dredging equipment will affect our vegetation as the wind will be a factor in passing on the residues.

2 NOISE

Noise from the construction build up and the firing ranges will also be a factor.

Moreover, the firing range is located within a residential and a school district region.

3. POWER, WATER AND WASTEWATER

Customer demands will be tremendously increase due to the influx of the user population.

The Clean Water Act should be complied with as it can pass contamination into our sea food and sea animals and drinking water consumed by our human bodies and all other non human consumption.

4. HAZARDOUS MATERIALS & WASTE MANAGEMENT

There will be a need for clean up due to kinds of hazardous materials related to the dredging. This will also require a haz mat team who are trained to do the clean up spills.

We should also anticipate accidents such as oil spills, radiation/nuclear spillage or leakage, gas spills, etc. We need a specialized team for this type of clean up as it can provide serious health issues such as cancer, etc.

5. ROADS

There is a need to expand all the roads due to heavy traffic along Polaris Point. The traffic will include heavy equipment to regular automobiles for loading and unloading docks, etc.

6. MASS TRANSPORTATION & SCHOOL BUSES

Due to the increase in population, mass transit buses and school buses will have to increase as well to accommodate the public demand. Bus stops are also in need throughout the whole island.

Draft Environmental Impact Statement (DEIS) Review / Impact / Comments As of Feb.10, 2010

J-021-075

7. COMMERCIAL PORT

There will be a need for expansion for Guam's commercial port due to the influx of the population. Large cargos with various commodities will be shipped to Guam.

8. LAND ACQUISITION FOR ROADS

Will there be more land (from private homeowners) needed for this build up?

9. OHS ADDITIONAL FEDERAL GRANT FUNDINGS

Will there be more federal grant funding from OHS to promote road safety?

10. FUNDING ISSUES

Who will be paying for what projects?

Will the funding be 100% federal or will there be a matching of funds?

How about other funding sources?

- a. FHWA
- b. DOD
- c. NHTSA
- d. USDOI

Other Funding Sources

- e. Bond Financing
- f. GHF-Liquid Fuel Taxes
- g. Mass Transit fees

11. PROJECT COST

What is the cost breakdown per projects? What is the scope of work? Will we be outsourcing 100% of the work? How much will DPW receive for each project, direct cost, indirect cost and administrative costs? How are the funds being received by electronic funds transfer or by US postal service?

VOLUME 7 - SOLID WASTE MGMT

A. This is a specialized area that requires professionals to review from the various capacity such as the receivership consultants, lawyers, judges, environmentalist, health and safety experts, engineers, architects, financial and other experts within the solid waste management industry.

Draft Environmental Impact Statement (DEIS)
Review / Impact / Comments
As of Feb.10, 2010

J-021-075

1. FUNDING ISSUES

Will GovGuam receive any federal grants from military to help with our landfill costs since the military will be a large cliental? Guam will be financing the landfill closure and opening cost, but can the military provide some federal funding

As they too will benefit from the landfill (Guam cannot afford to pay this full cost when the military are also part of the cost and not 100% general public use and yet we pay 100% of the financing)? How much more in revenues will we receive due to increase in Tipping Fees? How about congressional funding such as the Clean Air and Clean Water Act, Superfund, etc.? How about a special appropriation from Congress to support Guam's solid waste management needs due to the military's base and work requirements, similar to the Defense Access Road Program funding?

2. HAZARDOUS MATERIALS

What are the mitigations related to all hazardous materials related to construction, ammunition and other environmental waste? Is there a materials management spill response plan, treatment and handling, mitigation plans, etc? Establish reasonable pricing policies for community services to include military customers? Is there a recycling and waste program?

3. OPERATIONAL COST

Cost related to SW Management will need to increase due to personnel cost and training for staff. Training needs are required for the various disciplines within waste management.

4. RECEIVERSHIP INVOLVEMENT

To what extent is the GBB receivership's (based upon the federal district courts rules) involvement related to the military buildup, DEIS planning & implementation, scope of work, etc? After GBB's work, who, when and what will happen next? DPW cannot be left out of the equation or be the clean up committee after GBB's contract is over.



Arleen Pierce <arleen.pierce@dpw.guam.gov>

Procurement Circular 2010-01 Compliance P.L. 30-72

Josephine Torres <josephine.torres@dpw.guam.gov>
To; Arleen Pierce <arleen.pierce@dpw.guam.gov>

Sun, Feb 7, 2010 at 5:28 PM

Ms. Pierce,

These were submitted on Friday.

Josephine Torres Work: 646-3224 Cell: 888-6176



Forwarded conversation

Subject: CIP Submitted DEIS Comments

From: Josephine Torres <<u>josephine.torres@dpw.quam.gov</u>>
Date: Sat, Feb 6, 2010 at 5:53 AM

To: "P.E.Ray Padua" < ramon.padua@dpw.guam.gov >, Andrew Leon Guerrero

<andrew.leonguerrero@dpw.guam.gov>

Cc: John Calanayan <<u>iohn.calanayan@dpw.quam.qov</u>>, Maria Duarte <<u>maria.duarte@dpw.quam.gov</u>>, Maryrose Wilson <<u>maryrose wilson@dpw.quam.qov</u>>, Liberty Perez <<u>liberty.perez@dpw.quam.gov</u>>, Dionie DeLeon <<u>dionisio.deleon@dpw.quam.gov</u>>, Roger Capati <<u>rogelio.capati@dpw.quam.gov</u>>, ray.junio@dpw.quam.gov, Arce Fontbuena <<u>arce.fontbuena@dpw.quam.gov</u>>, Jeri Calaor <<u>ccalaor@yahoo.com</u>>

The following attachments were submitted Friday, Feb 05, 2010. May I ask that you submit your comments in the proper format and forward an electronic copy in adition to the hard copy? Please refer to M Wilson and M Duarte's submittal to get an idea.

Thank you and I look forward to receiving the remainder.

From: Mail Delivery Subsystem mailer-daemon@googlemail.com Date: Sat, Feb 6, 2010 at 5:53 AM
To: iosephine.torres@dow.guam.gov

Delivery to the following recipient failed permanently:

ray.junio@dpw.guam.gov

Technical details of permanent failure:

Google tried to deliver your message, but it was rejected by the recipient domain. We recommend contacting the other email provider for further information about the cause of this error. The error that the other server returned was: 550 550-5.1.1 The email account that you tried to reach does not exist. Please try

550-5.1.1 double-checking the recipient's email address for typos or

550-5.1.1 unnecessary spaces. Learn more at

550 5.1.1 http://mail.google.com/support/bin/answer.py?answer=6596 11si6309276pzk.135 (state 17).

---- Original message -----

http://mail.google.com/a/dpw.guam.gov/?ui=2&ik=e42cff53d8&view=pt&search=inbox&... 2/8/2010

MIME-Version: 1.0 Received: by 10.231.158.205 with SMTP id g13mr1783064ibx.30.1265464428411; Sat, 06 Feb 2010 05:53:48 -0800 (PST)
From: Josephine Torres < josephine.torres@dpw.guam.gov> Date: Sat, 6 Feb 2010 23:53:25 +1000 Message-ID: <5b326fd71002060553w2d3cc091t7e4155461e81fc20@mail.gmail.com> Subject: CIP Submitted DEIS Comments To: "P.E.Ray Padua" < ramon.padua@dpw.guam.gov>, Andrew Leon Guerrero andrew.leonguerrero@dpw.quam.gov>
Cc: John Calanayan john.calanayan@dpw.quam.gov>, Maria Duarte maria.duarte@dpw.quam.gov>, Maryrose Wilson maryrose.wilson@dpw.guam.gov, Liberty Perez liberty Perez maryrose.wilson@dpw.guam.gov, Roger Capati maryrose.wilson@dpw.guam.gov, Roger Capati maryrose.wilson@dpw.guam.gov, Roger Capati maryrose.guam.gov, Roger Capati maryrose.guam.gov, Roger Capati maryrose.guam.gov>, Roger Capati maryrose.guam.gov>, Roger Capati maryrose.guam.gov>), Roger Capati maryrose.guam.gov>), Roger Capati maryrose.guam.gov>), Roger Capati maryrose.guam.gov>), Roger Capati maryrose.guam.gov), Roger maryrose.guam.gov), Roger maryrose.guam.gov), Roger maryrose.guam.gov), Roger maryrose.guam.gov), Roger maryrose.guam.gov), Roger maryrose.guam.gov), Roger <a hre

Jeri Calaor < jccalaor@yahoo.com> Content-Type: multipart/mixed; boundary=00504501416dbb71fb047eeee510

ray.junio@dpw.guam.gov, Arce Fontbuena <arce.fontbuena@dpw.guam.gov>,

4 attachments

J Calanayan DEIS Vol.9.pdf 1307K

L Perez DEIS Vol 3.pdf 580K

M Duarte Vol. 5.pdf 2639K

M Wilson DEIS Vol 8.pdf 357K



Arleen Pierce <arleen.pierce@dpw.guam.gov>

Re: DEIS Report #5

Arleen Pierce <arleen.pierce@dpw.guam.gov>

Sun, Feb 7, 2010 at 4:22 PM

To: Ramon Padua ramon.padua@dpw.guam.gov, Joaquin Blaz kindob@gmail.com, Josephine Torres <josephine.torres@dpw.guam.gov>, Eleanor F Borja <eleanor.borja@dpw.guam.gov> Cc: Andrew Leon Guerrero <andrew.leonguerrero@dpw.guam.gov>, "Lawrence 'Larry' P. Perez" <zerepyrral@yahoo.com>, Mario Garcia <mario.garcia@dpw.guam.gov>

Kin, Ray and Josephine,

I am following up on your division's response to the DEIS. I have not received any as of today. Please advise. Your divisions here at DPW are very much impacted.

Thank you. aup

-- Forwarded message -----

From: Arleen Pierce <arleen.pierce@dpw.guam.gov>

Date: Tue, Feb 2, 2010 at 7:47 PM

Subject: Re: DEIS Report #5

To: "Lawrence 'Larry' P. Perez" < zerepyrral@yahoo.com >, Andrew Leon Guerrero

<andrew.leonguerrero@dpw.guam.gov>

Cc: Dominic G Muna < dominic.muna@dpw.guam.gov >, Barbara Purugganan

, Julie Manglonasparses:4<a href="mailto:

<u>julie.manglona@dpw.guam.gov</u>>, Ramon Padua <<u>ramon.padua@dpw.guam.gov</u>>, Eleanor F Borja <eleanor.borja@dpw.guam.gov>, Bernadita Perez
bernadita.perez@dpw.guam.gov>, Gloria Cordero

<gloria.cordero@dpw.guam.gov>, "Joaquin R. Blaz" <joaquin.blaz@dpw.guam.gov>, Mario Garcia

<mario.garcia@dpw.guam.gov>, Cecilia D Javier <cecilia.javier@dpw.guam.gov>, Therese Matanane

<a href="mailto:therese.matanane@dpw.guam.gov>guam.gov>special-gray-guam.gov>special-gray-guam.govspecial-gray-guam.govspecial-gray-guam.govspecial-guam.govspecial-guam.gov

slinda.ibanez@dpw.quam.gov, Leopoldo Olnagan leopoldo.olnagan@dpw.quam.gov, Marlene Tydingco

<marlene.tydingco@dpw.guam.gov>, Barbara Ann Narcis <barbaraann.narcis@dpw.guam.gov>, Jolyn

<iolyniean21@yahoo.com>

Boss & Division Managers, Attached is the DEIS report number 5 (volume 8). Please submit all comments by Friday February 5, 2010.

Thank you.

aup

On Mon, Jan 25, 2010 at 3:38 PM, Barbara Ann Narcis < barbaraann.narcis@dpw.guam.gov> wrote: All Division Heads:

Attached please find the Draft Environmental Impact Statement Report No. 4 for your file.

Thank you

Bobbi Narcis

http://mail.google.com/a/dpw.guam.gov/?ui=2&ik=e42cff53d8&view=pt&q=deis&search=... 2/8/2010

Arleen Unpingco Pierce
Controller, Dept of Public Works
542 N. Marine Drive
Tamuning, Guarn 96913
Tel (671) 646-3154 Fax (671) 646-3233
arleen.pierce@dpw.quam.gov
arleenunpingcopierce@yahoo.com

Arleen Unpingco Pierce
Controller, Dept of Public Works
542 N. Marine Drive
Tamuning, Guam 96913
Tel (671) 646-3154 Fax (671) 646-3233
arleen.pierce@dpw.quam.gov
arleenunpingcopierce@yahoo.com

DEISREPORT#5.PDF

	And the second second section of the second
_	* GURM AND CHINI MITTER RELOCATION of
-	VOWERT 9: VISITING KIRCRAFT CARPLER PETRITING, KND KRMY KIR
-	KNO MISTRE DEPENSE TASK
	FORCE.
J-021-076	TINDING &
	NO, SIGNIFICANT ENVIRONMENTAL
	IMPACT ON VERTICAL HAZARD
The Control of the Co	WITHIN THE VICINITY. LYCHTOWAS
-	THE IMPACT IS MOSTLY CONS187
-	POWENCE KOENCY; GUAN POWER
-	ANTHORITY, ENGIRONMENTAL PROJECTION
-	AGENCY, SOUD WAST KNOGURY
-	ONTERWORK AUTHORNY DILEMMA.
-	MONTORNE IS NECESSARY DUE
	DUE TO DIRECT AND INDIPACT
	IMPACT TO OUR PRINCENTIENT
J-021-077	OWESTION & PREMICING OFF PAST ON PLOTO
	VEMOLE IN GULAY
	have 1
	1 THE DO CONVEY WESTON WILL NOT
	CREATE MAJOR TRAFFIC FROM
	powt " to powt " to"
	(2) IS GUAM, POAD KRE DESTIGN
	por PURTING PORT FOR
	MUTARY HEAVY EQUIPMENT
1	
J-021-078	- BE REGARDING SOCRECONOMIC /MPNG
	DUE TO DUE TO BURDUP THERE WILL DE?
	L/Y

Guam and CNMI Military Relocation DEIS/OEIS

J-021-076

Thank you for your comment. Monitoring and mitigation measures identified in this Final EIS are presented in all Volumes with a consolidated listing appearing in Volume 7. Final decisions on these measures would be included in the Record of Decision.

J-021-077

Thank you for your comment. For the most part, training will occur on DoD lands. When it is necessary to move military vehicles in a convoy between installations, the convoys will be scheduled to travel during off peak hours to avoid creating traffic congestion on affected roadways.

Guam's main roads and bridges are not designed to carry heavy military vehicles. To support heavy military vehicles, certain roads will be widened and pavement will be strengthened. Bridges on which military vehicles are expected to traverse will be replaced and/or widened as appropriate with the appropriate rating factor to have a load-bearing capacity that can carry heavy military vehicles.

J-021-078

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

	And the second section of the second
against the	
J-021-078	(1) TEMPORARY INCREASE IN POPULATION
	person to THE CONSTRUCTION - DECATED
	WERK FORCE
****	@ permanent increase IN NUMPREAS
	AND DEPENDENTS ON GUAY.
	(8) MCREAST IN TRANSIENT PRESSURE
	ON GOMM TE
	D NCDERSE IN NUMBERS AND TYPE OF
	MATOR FOUIDMENT ASSETS TO SUPPORT
****	MINTRY PERSONAL AND SPERATION
	MUTTER PERSONAL AND OPERATION
	OF TRAWNG ACTIVITIES
	@ CONSTRUCTION OF NEW FACILITIES
	D HADROVENENT OF EXIST. FACULTES
	14 PROVENCENT TO INFRASTINGUIDE
	THEREFORE &
***	THERE WILL & BOOM" IN CONSTRUCTION IN
	POBLIC PRIVATE DEVELOPMENTS LIKE IN
	HOUSTNE DEVELOPATIONS * ND PROGRESS & STORTES
	SECTION AND MOSTLY ASSESSMENT
	IN MAN - powers kno mostly hisparing
enetteett.	ADJUSTINENT SCALE TO COMPETE WITH
	U.S. MANLAND TO BETAIN ITS EXISTING
	ENGINEERING KND TECHNICAL STAFF
	FROM DUBLIC END PRINKTE STOPR.
***	THEORY POLICE BUT THEORY BUGON,
-	

-	
minima.	
	The transference is all and the same and the

OF POOL CO.
To the second se
Refer the Marines France Okings & France
A series Marines from Character yisting
Attories Der Joing and Army Har oak
Relocating Marines From Okinawa Mitting Amorast Carrier Barthing and Army Air and Missile Vefence Fask Force
Volume 3: Marine Corps Nelocation -
Volume 3: Marine Corps Relocation - fraining on Pinion
findings,'
i Over all there is no significant anvinonmental
Impact without Tinian Gerom on Ownsers
on The Jord Vertical hagand associated with
The development and construction of Cial
Fill England C. W. C. and Din C. and 189 a Co.
There is no requirement par Special use
Airspace (SUA) associated with the proposed
There is no recurrence for special use Airspace (SUA) associated with the proposed fining ranges and the Neve would be no changes to designated air space Overlying the proposed firing; mostly the potential impact is on the poscences whe the water resources marrine biological resources point air space
no changes to designated air space,
Overlying the proposed firing; mostly
The potential signant is on the resources
The the other resources marine
biological resources noise an space jublic health and safely.
Jublic he alth and safely.
The state of the s
2. Transport ation Inqual went;
Due to military Bruil 1 100 there will be
o temporary increase in population whate of to
o femperary increase as grapulation related to The construction - related owing more pour mithen the marianes o for morent increase in number of military and civilian go rearned and degree during
pour within the marioner
o The marent increase in member of military
and civilian renounced and descendentage
0-00-
o Increase on Franciene presence in Buen Town
at an their the marionas
If they could have also one then
150 000

PUBLIC

Guam and CNMI Military Relocation DEIS/OEIS

J-021-079

J-021-079

Thank you for your comment.

	The state of the s
J-021-079	Source of from portalism like Peny Boat. including The Public Port / Whenues for the Peny Boat within 6uon Fini on & Hu Mari one.
	including The Public Port / Whenues per the
	Very Boot wither Guan Time on & the
	marione.
1	The second secon
	THE PARTY ASSESSMENT OF THE PARTY OF THE PAR
	THE PERSONNELS OF THE PERSONNE
	THE RESIDENCE OF A SECOND STATE OF THE PROPERTY OF THE PARTY OF THE PA
	The second control of the second control of
	THE COLUMN TWO PROPERTY AND ADMINISTRAL TO ADMINIST
	THE RESIDENCE AND ADDRESS OF THE PROPERTY OF T
	Consider the Consideration of
	1 Marine of the Control of the Contr
	MARKET DE PART ANABAM MARKET M
	Marie a part colonial and a second a second and a second
	The state of the s
	The state of the s
	The second secon
	THE RESIDENCE OF THE PROPERTY
	AND THE RESIDENCE AND THE STATE OF THE STATE
	THE RESIDENCE OF THE PROPERTY
	THE RESIDENCE OF THE PROPERTY
	AND ADDRESS OF THE PARTY OF THE
	THE SECRET REPORT WHEN A SECRET REPORT OF THE PROPERTY AND A SECRE
	THE PROPERTY OF THE PROPERTY O
	THE TAX DESCRIPTION OF A SECURITY OF THE PROPERTY OF THE PROPE
	THE ARMST STREET
	THE RESIDENCE OF THE PROPERTY
	NOT THE RESIDENCE OF THE PROPERTY OF THE PROPE
	PRODUCTION OF THE PRODUCTION O
	AND ADDRESS AND AD
	EXPLICATION AND ADMINISTRATION OF THE PROPERTY
	THE RESERVE OF THE PROPERTY OF
	The second state of the se

DEIS - Volume 5 - Army Air and Missile Defense Task Force

J-021-080

Chapter 1. Purpose of and need for action.

The purpose is to develop land-based terminal defense and to develop infrastructure and facilities that support the presence and operation of an Air and Missile Defense Task Force (AMDTF) land based air defense capability on Guam.

Impact:

The Dept. of Public Works (DPW) is the governing agency for the procurement of construction for the Territory in conformity with 5 GCA Chapter 5. If DPW will be the project manager for construction related activities, then there would be a direct impact as DPW Capital Improvement Projects (CIP) may not have the capability due to perform and oversee construction activity due to manpower shortage in Construction Management, Contracts Management and Technical Review, Program Coordination and Quality Control, Construction Quality Control Management and Building Inspections.

Chapter 2. Proposed Action and Alternatives.

The proposed action addressed in this volume is to construct facilities an infrastructure on Guam to support relocating Army and dependent personnel, and to establish and operate an Army, AMDTF.

Impact. Same response as to Chapter 1.

J-021-081

Chapter 3. Geological and Soil Resources.

This chapter describes the potential environmental impact to geologic and soil resources associated with implementation of the alternatives within the region of influence (ROI).

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. The Guam Environmental Protection Agency (GEPA) may be the leading agency to define the assessment and impact for geological and soil resources.

J-021-082

Chapter 4. Water Resources.

This chapter describes the potential consequences for water resources associated with implementation of the alternatives within the region of influence (ROI).

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. The Guam Waterworks Authority (GWA), GEPA and Department of Parks and Recreation may be the leading agencies to define the

Guam and CNMI Military Relocation DEIS/OEIS

J-021-080

Thank you for your comment. The items identified in this comment are not part of the proposed action and are therefore not addressed in the EIS.

J-021-081

Thank you for your comment. The Determination of Significance for impacts to geology and soil can be found in Volume 2, Chapter 3, Section 2, Environmental Consequences. GEPA regulations were considered in analysis of impacts throughout the document.

J-021-082

Thank you for your comment. As described in the EIS, proposed construction activities would include the implementation of site- and activity-specific Best Management Practices (BMPs) to reduce potential water quality impacts.

J-021-082

assessment and impact for geological and soil resources. DPW CIP may entertain the section as it applies to wetlands and flood mitigation.

J-021-083

Chapter 5. Air Quality.

This chapter describes the potential environmental consequences associated with implementation of the alternatives within the region of influence (ROI) – North and Central – where air quality resources may be impacted.

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. The GEPA may be the leading agency to define the assessment for air quality.

J-021-084

Chapter 6.

This chapter describes the potential environmental consequences associated with implementation of the alternatives within the region for noise.

Impact

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. The GEPA may be the leading agency to define the assessment for noise mitigation.

J-021-085

Chapter 7.

This chapter describes the potential environmental consequences on airspace associated with implementation of the alternatives within the region of influence (ROI).

Impact

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. The GEPA may be the leading agency to define the assessment on airspace.

J-021-086

Chapter 8.

This section relies on the Volume 2 affected environmental description of land and submerged land ownership and use for both civilian and Department of Defense (DoD) property.

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. However, several agencies may have assessment such as GEPA, GWA, Dept. of Land Management, Dept. of Public Health and Social Services and it may impact land ownership and use.

Guam and CNMI Military Relocation DEIS/OEIS

J-021-083

Thank you for your comment. Air quality emissions from construction activities related to the proposed CVN requirements are covered in Volume 5 Chapter 5.

J-021-084

Thank you for your comment. Construction would occur under the proposed action and mitigation measures are proposed to avoid or reduce impacts. Adaptive program management for construction would stretch out construction time and alleviate construction noise by reducing the number of construction equipment on site at any one time, but the impacts would have a longer duration.

J-021-085

Thank you for your comment.

J-021-086

Thank you for your comment. There are no anticipated land use impacts that would affect the operations of the GovGuam agencies listed.

J-021-087 Chapter 9.

This chapter provides the assessment of potential environmental consequences associated with implementation of the alternatives within the region of influence (ROI) for recreational resources and public access.

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. However, several agencies may have assessment such as GEPA, GWA, Dept. of Land Management, Dept. of Public Health and Social Services, Dept. of Parks and Recreation as it may impact land, parks and recreational facilities.

J-021-088

Chapter 10. Terrestrial Biological Resources.

This chapter contains a description of the potential environmental consequences to terrestrial biological resources associated with implementation of the action alternatives within the region of influence (ROI).

Impact. .

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. However, several agencies may have assessment such as GEPA, GWA, Dept. of Land Management, Dept. of Public Health and Social Services, Dept. of Parks and Recreation, Dept. of Agriculture as it may impact terrestrial biological resources.

J-021-089

Chapter 11. Marine Biological Resources.

This chapter contains a description of the potential environmental consequences to marine biological resources associated with implementation of the action alternatives within the region of influence (ROI).

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities.

J-021-090

Chapter 12. Cultural Resources.

This chapter contains a description of the potential environmental consequences to cultural resources associated with implementation of the action alternatives within the region of influence (ROI).

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. Impact maybe for Dept. of Parks and Recreation, Dept. of Chamorro Affairs, and DPW Division of Highways.

Guam and CNMI Military Relocation DEIS/OEIS

J-021-087

Thank you for your comment.

J-021-088

Thank you for your comment.

J-021-089

3

Thank you for your comment.

J-021-090

Thank you for your comment.

J-021-091

Chapter 13. Visual Resources.

This chapter describes the potential environmental consequences with implementation of the alternatives within the region of influence (ROI) for this resources.

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. Area of impact may be GEPA, DPW Division of Highway, and Dept. of Chamorro Affairs.

J-021-092

Chapter 14. Marine Transportation.

This chapter describes the potential environmental consequences associated with implementation of the alternatives for the AMDTF project within the region of influence (ROI) for marine transportation.

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities.

Chapter 15. Utilities.

J-021-093

Chapter 16.

This chapter describes the potential environmental consequences associated with implementation of the alternatives for the AMDTF project within the region of influence (ROI) for socioeconomics and general services.

Impact

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. Areas of concern that may have direct impact due to socioeconomic impacts island-wide may be DPW Division of Highway, Guam Chamber of Commerce, Dept. of Revenue and Taxation, GPSS, GCC, UOG, DPHSS, DPS, GFD, GDISID, DYA, GVB, and/or just about all agencies of the government.

J-021-094

Chapter 17. Hazardous Materials and Waste.

This chapter describes the potential environmental consequences of hazardous materials and waste associated with implementation of the alternatives for the AMDTF project within the region of influence (ROI).

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. Areas of direct impact may be GEPA, GWA, GSA, and DRMO.

Guam and CNMI Military Relocation DEIS/OEIS

J-021-091

Thank you for your comment.

J-021-092

Thank you for your comment. The AMDTF project does not include any improvements to facilities in Apra Harbor.

J-021-093

Thank you for your comment. Economic impacts and impacts to Guam service/permitting agencies are addressed in the Socioeconomic Impact Assessment Study (Appendix F of the DEIS).

J-021-094

The DoD will be responsible for the safe handling and use of all hazardous materials and hazardous waste. In the event of an inadvertent spill, release, or leak the DoD will be responsible to ensure that clean-up occurs in an expedited manner and that risk to human health and the environment is minimized. GEPA's role (and other agencies) is to oversee and monitor the actions of DoD regarding the use and potential clean-up of hazardous materials and hazardous wastes. In this capacity GEPA should have the resources to accomplish the oversight mission.

J-021-095

Chapter 18. Public Health and Safety.

This chapter describes the potential public health and safety impacts associated with implementation of the alternatives for the AMDTF project within the region of influence

5

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. Definitely, there will be a great impact as to public health and safety for the island as there will be a influx of residents subject to increased risk of contracting of disease and experiencing personal injury. Areas of impact would be DPHSS, GMII, GFD, DYA, DMH&SA, DOC, and Superior Court of Guam.

J-021-096

Chapter 19. Environmental Justice and the Protection of Children.

This chapter focuses on the potential for racial and ethnic minorities, low income populations, or children to be disproportionately affected by project-related impacts.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. There may be an adverse affect due to the difference ethnic groups, low income and disproportionate families. Areas of impact my, DYA, DPHSS and areas of public assistance, DMH&SA, GFD, and Superior Court of Guam.

Guam and CNMI Military Relocation DEIS/OEIS

J-021-095

Thank you for your comment. Volume 5, Chapter 18 discusses the potential public health and safety impacts of as a result of population growth associated with the Army AMDTF. Volume 5, Chapter 16 discusses the potential impact of an increased patient to health care provider ratio as a result of population growth associated with the Army AMDTF. Potential cumulative effects of the Army AMDTF action with other build up actions is addressed in Volume 7. As documented in this EIS, the DoD acknowledges the existing sub-standard conditions of social services on Guam and the interest to have DoD fund improvements to these services. DoD's ability to fund these services is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, the DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-021-096

Thank you for your comment. Significant indirect impacts to social, health care, and protective services on Guam related to the projected increase in population associated with the construction workforce and other induced development that would disproportionately affect minority and low-income populations and children are discussed in Volume 2 Chapters 16 and 19 and Volume 6 Chapter 20. DoD acknowledges the existing sub-standard conditions of key public infrastructure and services on Guam that particularly affect minority and low-income populations and children, and the interest to have DoD fund improvements to these services. DoD's ability to fund actions is limited by federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other federal programs and funding sources that could benefit the people of Guam, particularly its disadvantaged populations.

February 4, 2010

Volume 8: Additional Items required by NEPA

J-021-097

Chapter 5: Relationship between short-term use of the environment and long-term productivity

Short-Term:

Construction is expected to overlap. This overlap is the effect of spin of economic growth. Economic opportunities could off-set by rapid population growth, labor shortages cost of living increases, temporary demands on general services that will strain the quality of life.

Operations are expected to have a positive impact if planning is forecasted and anticipated, although they maybe some adjustment because of population growth then local government increase its level of services in most agencies.

Sustainability and small growth work to meet the needs of present build-up without compromising the future generations.

Their own needs are accommodated and what about the needs of the people of Guam. As we continue to study the impact we need to ensure that it will be beneficial to both local and federal government including the resident of Guam.

We need too continue to have a component for the master plan and identify every infrastructure project especially the new facilities that should comply with legal mandates including rules, regulations and international building code.

Environmental Impact Assessment should focus more to develop a milestone plan outlining the major components to a feasible, cost effective and alternative solution to the existing condition of Guam.

MRWilson:02/04/10

Cc: Coe, Eng'r. Supervisor, Eng'r III

Guam and CNMI Military Relocation DEIS/OEIS

J-021-097

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The Final EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

Through the process of public involvement that has accompanied this proposed action, the Chamorro people of Guam have voiced clearly and concisely their concern that the traditional Chamorro culture, including dance, language and traditions, will be forgotten. While population increases can highlight cultural differences, they also present unique opportunities for cultural learning and sharing. As noted in the Final EIS, the DoD plans for cultural sensitivity orientation and awareness programs will focus on mutual respect and tolerance and strive to educate all incoming and currently present military personnel on the rich and varied cultural history that has created the culture that is Guam today. Finally, the DoD plans to increase military civilian joint activities in order to foster strong and mutually beneficial military civilian relationships that include the sharing and understanding of culture.



Thursday, February 11, 2010 7:12 PM

From: "Arleen Pierce" <arleen.pierce@dpw.guam.gov> To: "Mariene Tydingco" <mariene.tydingco@dpw.guam.gov>, "Jolyn" <jolynjean21@yahoo.com> 1 File (191KB)



Fwd: DEIS

img09813.tif

Pls include into your compilation.

Pls print attachment for me.

Thank you.

aup

----- Forwarded message -----

From: Liberty A. Perez < liberty.perez@dpw.guam.gov>

Date: Thu, Feb 11, 2010 at 5:40 PM

Subject: DEIS

To: Ramon Padua <ramon.padua@dpw.guam.gov>, Andrew Leon Guerrero

<andrew.leonguerrero@dpw.guam.gov>, Josephine Torres <josephine.torres@dpw.guam.gov>, Arleen Pierce

<arleen.pierce@dpw.guam.gov>, Mario Garcia <mario.garcia@dpw.guam.gov>, "Liberty A. Perez"

libertyperez_pe@yahoo.com>

COE/Acting Director

For your review, comment.

Thanks...

Liberty

Arleen Unpingco Pierce Controller, Dept of Public Works 542 N. Marine Drive Tamuning, Guam 96913 Tel (671) 646-3154 Fax (671) 646-3233 arleen.pierce@dpw.guam.gov arleenunpingcopierce@yahoo.com

http://us.mc514.mail.yahoo.com/mc/showMessage?sMid=1&filterBy=&.rand=207805233... 2/12/2010

Defense Task ForceRelocating Marines From Okinawa, Visiting Aircraft Carrier Berthing and Army Air and Missile

VOLUME 3: Marine Corps Relocating-Training on Tinian

Chapter I: Introduction

Purpose of and Need of Action:

Volume 3- focuses on development and construction of facilities to support training and operation that would occur on Tinian in Commonwealth of the Northern Marianas Island (CNMI) associated with the proposed United States (US) Marine Corps relocation in Guam.

Significance:

J-021-098

The potential/significance impact on Guam is the waste materials that the military will be taking back to Guam.

Final Analysis:

I. For a Small Island Developing States (SIDS) like Guam the disposal of waste is a scrious constraint to a sustainable development; the limited land area and resources of a safe disposal. Due to military build up there will be:

- There will an increased of population.
- Unsustainable consumption patterns.
- Increase of imports of polluting and hazardous substances.
- Combined to make pollution prevention.
- The management of waste critical issue.
- 6. Post closure of Ordot Landfill (Consent Decree)
- Opening of Layon Landfill
- Long term disposal options limited

Guam needs to develop a modern dependable and efficient waste management system which would be accessible to all people of Guam and foster participation of the federal, local government and of private sector in a structured manner.

Guam must establish a minimum waste diversion of ninety five percent (95%) and five (5%) land filling and securing at least fifty years of processing and disposal capacity.

To facilitate reaching these goals Guam must convert Layon landfill into a Layon Integrated Waste Management Center (LIWMC) and shall consists of the following structures/buildings, mechanical technologies to attain 95% waste diversification and 5% landfilling:

Guam and CNMI Military Relocation DEIS/OEIS

J-021-098

Thank you for your comment. DoD has prepared the Guam Solid Waste Utility Study that looks at the existing and projected solid waste volumes generated from the future Marine Corp buildup. Estimates for this Utility Study were developed using Marine Corps Base (MCB) Hawaii, Kaneohe Bay (KB) solid waste characterization analysis. Solid waste generation activities for military installation on Guam and MCB Hawaii-KB are similar. Both military installations have similar facilities including maintenance shops, administrative officers, commissary and exchange facilities, fast-food establishments, club operations, family housing and unaccompanied personnel housing. The results of the solid waste characterization study will be incorporated into the FEIS.

The DoD has also prepared a Construction and Demolition (C&D) Debris Reuse and Diversion Study which addresses the anticipated waste streams during the demolition of old buildings and construction of new facilities identified in the EIS. The study also addresses green waste that will be generated from clearing many acres of vegetation. The goal of the study is to divert 50% of the C&D debris by the end of fiscal year 2015.

The non-DoD project solid waste volumes will be handled in accordance with the existing Guam Integrated Solid Waste Management Plan (ISWMP). GBB is expediting the closure of Ordot and the opening of Layon in the most expeditious manner possible.

DoD is in the process of updating the military Integrated Solid Waste Management Plan (ISWMP) to reflect how waste will be managed now and in the future. The updated DoD ISWMP will include any new information from studies and reports that have been conducted as part of the NEPA process.

- Waste Reception: Waste treatment and sorting
- Exploiting technological synergies: composting and digestion (aerobic/unaerobic).
- 3. Pre-processing for optimal recycling and energy capture.
- Recycling: The waste must be separated into two principal waste flows: wet (organic) and dry. The wet must be taken to organic treatment area. The dry fraction undergoes further sorting processes (manual, optical and magnetic) designed to recover the highest amount recyclable materials.
- 5. Automatic Sorting Equipment: Maximum Recovery Materials
- Waste to Energy Plant: Energy recovery such as:
 - a. Mechanical Biological Treatment Plant: Organic materials
 - Advance Thermal Treatment Plant: Refuse-Derived fuel through advance thermal processes becomes electricity.
- Construction and Demolition Waste Treatment
- 8. Landfill Area
- Waste Water Treatment Plant: Water and Air Control. In LIWMC must never discharge any waste water into the surrounding sanitary sewer system or surface waters.

LIWMC concept must specifically addresses concerns regarding potential odors, diseases carriers such as rats and flies, liter derived from delivery vehicles and waste processing noise. The design of the concept must such that delivered waste is immediately covered and surrounded by enclosed buildings. As a result, a negative visual impact was avoided when we isolated the waste from surrounding neighborhoods. The processing systems and buildings must be kept under negative air pressure with all facility process air being subjected to biologic filtration aimed at the elimination of substances that produces odors such as mercaptans, amines andamides. Maintaining waste processes within closed buildings also minimizes facility noise to the site surroundings.

II. Due to military build up, there will be an increased of population and you should have intermodal transportation within the Micronesia, were people can easily transient, easy access to regreation locations like having a Perry boat.

Prepared by: Liberty A. Perez 2/12/10 Engineer Supervisor

Program Construction, Quality Control Section Division of Capital Improvement Projects



Department of Public Works Capital Improvement Projects - Verticals



GUAM AND CNMI MILITARY RELOCATION EIS/OEIS

Comments on:
DRAFT ENVIRONMENTAL IMPACT
STATEMENT (DEIS)

VOLUME 2: MARINE CORPS RELOCATION

Chapter 2 Proposed Action Alternative

J-021-099

There will be an increase of aerial operations by the military aircraft due to the military build-up. This will obviously affect the off-base civilian communities. The noise and vibration levels will create much larger envelopes whereby the off base civilian facilities within these envelopes will have to be retrofitted and insulated. As buildings and dive lungs were constructed before the advent of the military build-up retrofitting will be required.

Noise inside the buildings and residential dwellings can be reduced by sound insulation. Similarly, there should be some method of reducing the effects of vibrations to these structures. Although our structures are constructed following the federal specifications, the military may still require additional supplemental specifications/standards for their structures to be "livable".

It these environment impact military standards are not incorporated to building facilities for the civilian community, then there will be adverse effects to the people staying closer to the base. Very particularly, are the safety and health concerns of the residents/occupants and DOD components, who are afforded off-base housing.

Recommendations:

The military should appropriate funds for the civilian communities affected by their operations. This can be estimated by determining how much it will cost to retrofit the facilities structurally due to considerable destructive vibrations, and to provide insulation to reduce the noise to an acceptable level. Structures for future construction shall add up to these requirements. These will entail additional costs which shall be borne by the military.

Chapter 5 Air Quality

J-021-100

This is another concern that as the air-craft takes of one-tanes on the runways, a considerable fuel exhaust is generated thereby, polluting the atmosphere and is detrimental.

Recommendation:

A protective measure shall be devised to monitor the air quality within an acceptable level. In case of emergency, military operations which may happen occasionally or inevitable war, the military training involving operations should be properly scheduled considering the safety and health concerns of the local communities. Air quality should be more closely coordinated with the Guam Environmental Protection Agency.

DPW CIP /DEIS Comment

2-1

Volume 2

Guam and CNMI Military Relocation DEIS/OEIS

J-021-099

Thank you for your comment. Soundproofing by the USMC in high noise areas is not planned at this time because of several factors. Each individual structure has noise reduction capabilities and the average reduction for windows closed is about 25 dBA and 15 dBA with windows open (personal communication, Czech 2010). The amount of reduction for a specific structure depends upon many factors including; source and intensity of the noise, age of the structure, quality of construction, type and quality of building materials, topography, other structures nearby, and the proximity of trees around the structure. Furthermore, at this time funds for soundproofing are not allowed because regulations prohibit using USMC project funds for improvements to property which the Navy/USMC does not have a real property interest.

J-021-100

Thank you for your comment. The emissions from aircraft landing and taking off at Andersen AFB and from various pattern training flights at Andersen AFB and other airfields were estimated using the methods and emission factors obtained from the US Environmental Protection Agency, the Navy's Aircraft Environmental Support Office, and Air Force Center for Environmental Engineering and Excellence (See Volume 2, Section 5.2.1). The predicted emissions (see Tables 5.2-3 and 5.2-4) are not considered significant as per the significant threshold discussed in the DEIS. Therefore, no additional emissions monitoring is considered necessary.





Department of Public Works - Division of Engineering CAPITAL IMPROVEMENT PROJECTS

TABLE OF CONTENTS

VOLUME 2: MARINE CORPS RELOCATION2-1
VOLUME 3: MARINE CORPS RELOCATION -TRAINING ON TINIAN3-1
VOLUME 4: AIRCRAFT CARRIER BERTHING4-1
VOLUME 5: ARMY AIR AND MISSILE DEFENSE TASK FORCE5-1
VOLUME 6: RELATED ACTIONS – UTILITIES AND ROADWAY PROJECTS6-1
VOLUME 7: POTENTIAL MITIGATION, PREFERRED ALTERNATIVES IMPACTS AND CUMULATIVE IMPACTS7-1
VOLUME 8: ADDITIONAL ITEMS REQUIRED BY NEPA8-1
VOLUME 9: APPENDICES9-1

542 North Marine Corps Drive, Tamuning Guam 96913 • Tel (671) 646-3131 • Fax (671) 649-6178

VOLUMES I & II - Marine Corps Relocation- GUAM

Chapter I: Introduction

Purpose of and Need of Action:

J-021-101

Volume 1 & 2 - Focuses on the following:

- Marine Corps. (a) Develop and construct facilities and infrastructure to support approximately 8,600 marines and their 9,000 dependents relocated from Okinawa to Japan (b) Develop and construct facilities and infrastructure to support training and operations on Guam and Tinian for the relocated Marines.
- Navy. Construct a new deep-draft wharf with shoreside infrastructure improvements creating the capability in Apra Harbor, Guam to support transient nuclear powered aircraft carrier.
- Army. (a) Develop facilities and infrastructure on Guam to support relocating 600 military personnel and their 900 dependents to establish and operate an Army AMDTF.

Significance:

The potential/significance impact on Guam is the geologic disturbance there might have an impact on the earth plates and erosion.

Final Analysis:

Due to Military Build Up there will be:

J-021-102

J-021-103

- I. An Increase of Population. Intermodal Transportation. We need additional roads but you cannot expand the roads due to limited rights of way, limited land. We need additional source of transportation like:
 - Monorail in Guam: Need reliable public transportation, protect the environment, pollution; lessen vehicle on the road;
 - Improve the Public Transportation like the busing.
- II. Increase in Population & Massive Developments on the Military Bases/Properties, Public, An Private Properties, there is geologic disturbances and significant impacts on the following:
 - Earth Plates: Guam has a history of 8.1 magnitude earthquake in 1993 and all Public Buildings, Facilities has to be upgraded to meet Seismic Zone 4, and 2009 New International Building Code, especially the Public Schools.
 - Erosion Control: The significant impact to Guam is flooding. Flood control should be address in this military buildup in every Guam Villages; ponding

DPW CIP /DEIS Comment

2-2

Volume 2

Guam and CNMI Military Relocation DEIS/OEIS

J-021-101

Thank you for your comment.

Seismic risks on Guam are addressed in every area/Alternative of the EIS as follows: Hazards associated with earthquakes, fault rupture, slope instability and liquefaction would be minimized by adherence to UFC 3-310-04 Seismic Design for Buildings (USACE 2007).

Impacts to soil and geological resources due to hazards have been determined to be less than significant.

Erosion will be controlled with best management practices (BMPs). The implementation of BMPs is included in every area/Alternative of the EIS. A complete list of BMPs that will be implemented can be found in Volume 7.

J-021-102

Thank you for your comment. The 2030 Guam Transportation Plan outlines recommendations for an improved mass transit system on Guam. These recommendations included forming the Guam Mass Transit Authority and implementing high-capacity bus service on the island. In late 2009/early 2010, the Guam Regional Transit Authority (GRTA) was formed and will now be responsible for all public transit functions. The GRTA approved the Guam Transit Business Plan in January 2010, which includes purchasing new buses, constructing a bus maintenance facility, and modifying the bus schedule.

J-021-103

Thank you for your comment. The Final EIS includes an updated discussion and analysis of potential measures that would be implemented to reduce impacts from stormwater flooding.

basins, storm drain, curved and gutter must be included in all road construction, all waterways must cleared and upgraded, seashore protections all over the island especially in the south.

DPW CIP /DEIS Comment

2-3

Volume 2

VOLUME 3: MARINE CORPS RELOCATION -TRAINING ON TINIAN

Chapter I: Introduction

Purpose of and Need of Action:

Volume 3- focuses on development and construction of facilities to support training and operation that would occur on Tinian in the Commonwealth of the Northern Marianas Island (CNMI) associated with the proposed United States (US) Marine Corps relocation in Guam.

Significance:

J-021-104

The potential/significance impact on Guam is the waste materials that the military will be taking back to Guam.

Final Analysis:

I. For a Small Island Developing States (SIDS) like Guam the disposal of waste is a serious constraint to a sustainable development; the limited land area and resources of a safe disposal. Due to military build up there will be:

- 1. An increased population.
- 2. Unsustainable consumption patterns.
- Increase of imports of polluting and hazardous substances.
- Combined to make pollution prevention.
- The management of waste critical issue.
- 6. Post closure of Ordot Landfill (Consent Decree)
- 7. Opening of Layon Landfill
- Long term disposal options limited

Guam needs to develop a modern dependable and efficient waste management system which would be accessible to all people of Guam and foster participation of the federal, local government and of private sector in a structured manner.

Guam must establish a minimum waste diversion of ninety five percent (95%) and five (5%) land filling and securing at least fifty years of processing and disposal capacity.

To facilitate reaching these goals Guam must convert Layon landfill into a Layon Integrated Waste Management Center (LIWMC) and shall consists of the following structures/buildings, mechanical technologies to attain 95% waste diversification and 5% landfilling:

- 1. Waste Reception: Waste treatment and sorting
- 2. Exploiting technological synergies: composting and digestion

DPW CIP / DEIS Comment

3-

Volume 3

Guam and CNMI Military Relocation DEIS/OEIS

J-021-104

Thank you for your comment. The Navy is preparing a Recycling and Solid Waste Diversion Study for DoD Bases, Guam that has established a diversion goal of 50 percent, not including construction and demolition debris. The Study is considering the following alternatives: 1) DoD would construct two refuse transfer facilities, one in northern Guam and one in Southern Guam; 2) DoD would implement a source separation recycling program at all facilities; 3) DoD would construct recycling center(s); and 4) DoD would construct a materials resource recovery facility.

The DoD has also prepared a Construction and Demolition (C&D) Debris Reuse and Diversion Study which addresses the anticipated waste streams during the demolition of old buildings and construction of new facilities identified in the EIS. The study also addresses green waste that will be generated from clearing many acres of vegetation. The goal of the study is to divert 50% of the C&D debris by the end of fiscal year 2015.

The non-DoD project solid waste volumes will be handled in accordance with the existing Guam Integrated Solid Waste Management Plan (ISWMP). GBB is expediting the closure of Ordot and the opening of Layon in the most expeditious manner possible. DoD is in the process of updating the military ISWMP to reflect how waste will be managed now and in the future. The updated DoD ISWMP will include any new information from studies and reports that have been conducted as part of the NEPA process.

J-021-105

Thank you for your comment.

J-021-104

(aerobic/unaerobic).

- 3. Pre-processing for optimal recycling and energy capture.
- 4. Recycling: The waste must be separated into two principal waste flows: wet (organic) and dry. The wet must be taken to organic treatment area. The dry fraction undergoes further sorting processes (manual, optical and magnetic) designed to recover the highest amount recyclable materials.
- 5. Automatic Sorting Equipment: Maximum Recovery Materials
- 6. Waste to Energy Plant: Energy recovery such as:
 - a. Mechanical Biological Treatment Plant: Organic materials
 - b. Advance Thermal Treatment Plant: Refuse-Derived fuel through advance thermal processes becomes electricity.
- 7. Construction and Demolition Waste Treatment
- 8. Landfill Area
- Waste Water Treatment Plant: Water and Air Control. In LIWMC must never discharge any waste water into the surrounding sanitary sewer system or surface waters.

LIWMC concept must specifically addresses concerns regarding potential odors, diseases carriers such as rats and flies, liter derived from delivery vehicles and waste processing noise. The design of the concept must such that delivered waste is immediately covered and surrounded by enclosed buildings. As a result, a negative visual impact was avoided when we isolated the waste from surrounding neighborhoods. The processing systems and buildings must be kept under negative air pressure with all facility process air being subjected to biologic filtration aimed at the elimination of substances that produces odors such as mercaptans, amines andamides. Maintaining waste processes within closed buildings also minimizes facility noise to the site surroundings.

J-021-105

II. Due to military build up, there will be an increased of population and you should have intermodal transportation within the Micronesia, were people can easily transient, easy access to recreation locations like having a ferry boat.

DPW CIP /DEIS Comment

3-2

Volume 3

VOLUME 4: AIRCRAFT CARRIER BERTHING

Chapter 1. - Purpose and Need For Action

J-021-106

The purpose is to develop the new deep-draft wharf with shoreside infrastructure improvement, creating the capacity to support a transient nuclear powered aircraft carrier.

Impact:

This chapter may have no direct impact to the Department of Public Works, Capital Improvement Project, of the Government of Guam, the proposed implementation of the alternative within the region of influence are under the military responsibility, the construction and operation are subject for navy guidelines, laws and international standards. The Guam Environmental Protection Agency (GEPA), Army Corps of Engineers, the local Department of Agriculture, Bureau of Statistics and Planning-Coastal Zone Management, Department of Agriculture Fish and Wildlife with mandate for preservation and other Government agencies involve for the protection of environment are the leading agencies to define the assessment and impact of any construction and operation within the region of influence (ROI).

Chapter 2. - Proposed Action and Alternatives

This chapter begins with a description of operation, facilities and design standards, the navy propose to construct a new deep-draft wharf with shore side infrastructure, channel realignment and other improvement in Apra Harbor.

Impact:

J-021-107

Channel realignment, new proposed wharf alignment for Polaris point and former Shipyard Repair Facilities (SRF). The proposed upgrading and construction operation may not have any direct impact to the Department of Public Work, Capital Improvement Project Division. However, during the operation for demolition, solid waste disposal may have an impact on the island landfill, the volume and capacity of debris and other hazardous material should be accounted and reported to the proper authorities. The upgrading of Apra Harbor, construction operation may have direct impact with other leading agencies of the Government of Guam, such as Guam Environmental Protection Agency (GEPA), Army Corps of Engineers, Department of Agriculture for the protection of preserve coastal area, Bureau of Statistics and Planning-Coastal Zone Management. For further study, how safe for the island population health in the event nuclear emergency, particularly any damage to the reactor during the transient visit of this carriers.

J-021-108

J-021-109

Chapter 3. - Geological and Soil Resources

This chapter describes the potential environmental impact associated the upgrading and operation for the implementation of the proposed action and alternative.

DPW/CIP

4-1

VOLUME 4

DEIS Comment

J-021-106

Thank you for your comment.

J-021-107

Thank you for your comment. The Navy is preparing a Construction and Demolition (C&D) Debris Reuse and Diversion Study for DOD Bases, Guam that addresses waste characterization, processing, recycling and disposal of construction debris. Information from this study will be used to update the FEIS.

The study is considering the following alternatives: 1) Contractors would continue to process all C&D debris, and DoD would construct a composting facility to process green waste and 2) DoD would construct a C&D debris central processing facility and a composting facility to process green waste.

Through project specific contractual requirements, DoD contractors would be required to process and divert 50% of C&D debris that is generated on each project. Another alternative would be for the DoD to construct a central processing facility that would be used to recover and reuse or recycle scrap metal, concrete (without lead-based paint), asphalt concrete, and untreated wood. Contractors would be required to haul C&D to this facility. Based on the C&D debris composition assumed in the study, the Navy will be able to achieve a C&D debris waste diversion goal of greater than 50% by the end of fiscal year 2015. A site for the central processing facility is currently being evaluated but will most likely be located in northern Guam. Disposal of C&D debris that is not divertible or recyclable will be disposed at the Navy Hardfill at Apra Harbor. The study also evaluates the construction of a composting facility to handle green waste generated by land clearing activities required for new development.

Impact:

J-021-110

This chapter may have no direct impact to the Department of Public Works-Capital Improvement Project Division. All propose construction operation will be under the Navy Engineering Standard and Operation Procedure. The Guam Environmental Protection Agency (GEPA), Army Corps of Engineers, the local Department of Agriculture, Bureau of Statistics and Planning-Coastal Zone Management and other Government agencies involve for the protection of environment are the leading agencies to define the assessment and impact of any construction and operation within the region of influence (ROI).

Chapter 4 ~ 19

J-021-111

Have no direct impact to DPW CIP Division, other Government of Guam agencies concerned with environmental issues are the proper agencies to assess the impact on environment vs population growth. The consequences and effect of military bases upgrading or development on our island resources must be carefully assess, exp

CHAPTER 4	WATER RESOURCES - GEPA, GWA, Army Corps of Engineer
CHAPTER 5	AIR QUALITY- study the effect on the population close to the ROI
CHAPTER 6	NOISE- study the effect on the population close to the ROI
CHAPTER 7	AIR SPACE- should be regulated safe enough from community
CHAPTER 8	LAND AND SUBMERGE LAND USE - DLM mandate, DOA
CHAPTER 9	RECREATIONAL RESOURCES - GVB must regulate the location.
CHAPTER 10	TERRESTRIAL BIOLOGICAL RESOURCES-GEPA, GHS
CHAPTER 11	MARINE BIOLOGICAL RESOURCES
CHAPTER 12	CULTURAL RESOURCES
CHAPTER 13	VISUAL RESOURCES
CHAPTER 14	TRANSPORTATION.
CHAPTER 15	UTILITIES- Should be upgraded at least for the next 20 years
CHAPTER 16	SOCIOECONOMICS AND GENERAL SERVICES
CHAPTER 17	HAZARDOUS MATERIAL AND WASTE-GEPA
CHAPTER 18	PUBLIC HEALTH AND SAFETY-All population should be aware of
	consequences for this action

Chapter 19 Environmental Justice and Protection of Children

J-021-112

Children are our future, at all cost, the Government should invest for the safety of our innocent little one for our future generation.

Chapter 20 Reference, List Of Figure, List Of Table

DPW/CIP	4-2	VOLUME 4	
DEIS Comment			

J-021-108

Thank you for your comment. DoD will continue to coordinate with the agencies referenced in your comment.

J-021-109

Thank you for your comment. Volume 4, Section 18 indicates that all Naval Nuclear Propulsion Program (NNPP) activities have plans in place that define responses to a wide range of emergency situations. These plans are regularly exercised to ensure that proficiency is maintained. These exercises consistently demonstrate that Navy personnel are well prepared to respond to emergencies regardless of the location. Actions are taken to continually evaluate and improve emergency preparedness. If there ever were a radiological emergency, civil authorities would be promptly notified and kept fully informed of the situation. Local civil authorities would determine appropriate public actions, if any, and communicate this information via their normal emergency communication methods. The EIS does not identify specific funding sources for training, and equipping public emergency responders.

J-021-110

Thank you for your comment.

J-021-111

Thank you for your comment.

J-021-112

Thank you for your comment. DoD understands your concerns about Guam's children and recognizes the significance of impacts that may affect them. The FEIS has been updated (Volumes 2 and 6) to better address impacts on infrastructure and services that would affect children. In addition to mitigation measures summarized in Volume 7, DoD is leading a federal inter-agency effort to identify other federal programs

VOLUME 5: ARMY AIR AND MISSILE DEFENSE TASK FORCE

Chapter 1.

J-021-113

Purpose of and need for action: The purpose is to develop land-based terminal defense and to develop infrastructure and facilities that support the presence and operation of an Air and Missile Defense Task Force (AMDTF) land based air defense capability on Guam.

Direct Impact:

The Dept. of Public Works (DPW) is the governing agency for the procurement of construction for the Territory in conformity with 5 GCA Chapter 5. If DPW will be the project manager for construction related activities, then there would be a direct impact as it will significantly affect DPW Capital Improvement Projects (CIP) capability to perform and oversee construction activity due to manpower shortage in Construction Management, Contracts Management and Technical Review, Program Coordination and Quality Control, Construction Quality Control Management and Building Inspections and Permitting.

Indirect Impact.

The development of the terminal defense infrastructure and facilities that support the AMDTF may affect other areas due to the flight path of air carriers in the residential zone and surrounding areas, noise mitigation, hazard exposure to incoming and outgoing flights, requirement for air space and height restrictions on high rise structural building. Review on this chapter may have an indirect impact and less significant to DPW CIP, but may have a direct impact and highly significant to DPW Division of Highway and Guam Environmental Protection Agency (GEPA) may be the lead agency for their review and assessment as it affects the environment (land and air), traffic management and highway encroachment. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

DEIS does not identify or address the funding source for this chapter. More so, there are no alternative method of funding source introduce (100% federal fund or matching fund). Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 2.

Proposed Action and Alternatives. The proposed master planning action for AMDTF on Guam contains three missile components: (1) The Terminal High Altitude Area Defense; (2) Patriot Missile; and (3) A Surface-Launched Advanced Medium-Range Air-to-Air Missile.

DPW/CIP DEIS Comments 5-1

VOLUME 5

Guam and CNMI Military Relocation DEIS/OEIS

and funding sources that could benefit the people of Guam including children.

J-021-113

Thank you for your comment. The items identified in this comment are not part of the proposed action and are therefore not addressed in the EIS.

Direct Impact:

J-021-113

The Dept. of Public Works (DPW) is the governing agency for the procurement of construction for the Territory in conformity with 5 GCA Chapter 5. If DPW will be the project manager for construction related activities, then there would be a direct impact as it will significantly affect DPW Capital Improvement Projects (CIP) capability to perform and oversee construction activities due to manpower shortage in Construction Management, Contracts Management and Technical Review, Program Coordination and Quality Control, Construction Quality Control Management and Building Inspections and Permitting.

Indirect Impact.

The development of the terminal defense infrastructure and facilities that support the AMDTF may affect other areas due to the flight path of air carriers in the residential zone and surrounding areas, noise mitigation, hazard exposure to incoming and outgoing flights, requirement for air space and height restrictions on high rise structural building. Review on this chapter may have an indirect impact and less significant to DPW CIP, but may have a direct impact to DPW Division of Highway and Guam Environmental Protection Agency (GEPA) may be the lead agency for their review and assessment as it affects the environment (land and air), traffic management and highway encroachment. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source: DEIS has identified funds for the construction of the required facilities.

Chapter 3. Geological and Soil Resources

This chapter describes the potential environmental impact to geologic and soil resources associated with implementation of the alternatives within the region of influence (ROI).

J-021-114 Indirect Impact.

This chapter may have indirect impact to the DPW CIP Division unless it involves construction related activities. The Guam Environmental Protection Agency (GEPA) may have a direct impact and greater significant as GEPA is the leading agency to define the assessment and impact for geological and soil resources. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

DPW/CIP DEIS Comments 5-2

VOLUME 5

Guam and CNMI Military Relocation DEIS/OEIS

J-021-114

Thank you for your comment.

Chapter 4. Water Resources.

This chapter describes the potential environmental consequences associated with the implementation of the alternatives within the region of influence (ROI) for water resources.

J-021-115 Indirect Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. The Guam Waterworks Authority (GWA), GEPA, Department of Agriculture and Department of Parks and Recreation may be the leading agencies to define the assessment, impact and significant for geological and soil resources. DPW CIP may entertain this section as it applies to wetlands and flood mitigation. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

J-021-116

Funding Source: Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 5. Air Quality.

J-021-117 This chapter describes the potential environmental consequences associated with implementation of the alternatives within the region of influence (ROI) - North and Central - where air quality resources may be impacted.

> Indirect Impact. This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. The GEPA may be the leading agency to define the assessment, impact and significant, and standards for air quality. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

> Funding Source: Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 6.

J-021-118 This chapter describes the potential environmental consequences associated with implementation of the alternatives within the region for noise.

Indirect Impact.

VOLUME 5 5-3 DPW/CIP **DEIS Comments**

Guam and CNMI Military Relocation DEIS/OEIS

J-021-115

Thank you for your comments.

J-021-116

Thank you for your comment. Prior to construction, the funding source(s) would be identified. Potential mitigation measures associated with the Preferred Alternative are discussed in Section 4.2.2.4 of the Final EIS.

J-021-117

Thank you for your comment. As noted in the comment, the only potential impacts to air quality are associated with construction-related activities. No mitigation measures are required, as emissions would be below criteria levels (i.e., below 250 tons per year [TPY] threshold or 100 TPY SO2 threshold applicable for SO2 nonattainment areas). Funding sources are not identified in the air quality chapters, as these chapters focus on existing conditions and impacts.

J-021-118

Thank you for your comment. The mitigation measure of adaptive program management for construction would stretch out construction time and alleviate construction noise by reducing the number of construction equipment on site at any one time, but the impacts would have a longer duration.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. The GEPA and DPW Division of Highway may be the leading agency to define the assessment, impact and standards for noise mitigation. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 7.

J-021-119 This chapter describes the potential environmental consequences on airspace associated with implementation of the alternatives within the region of influence (ROI).

Indirect Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. The GEPA may be the leading agency to define the assessment, impact and significant on airspace. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 8.

J-021-120 This section relies on the Volume 2 affected environmental description of land and submerged land ownership and use for both civilian and Department of Defense (DoD) property.

Indirect Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. However, several agencies may have a direct impact such as GEPA, GWA, Dept. of Land Management, Dept. of Public Health and Social Services and it may impact land ownership and land use. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

DPW/CIP **DEIS Comments**

VOLUME 5

Guam and CNMI Military Relocation DEIS/OEIS

J-021-119

Thank you for your comments. There would be no construction required for establishing proposed Special Use Airspace and there would be no construction mitigation required under this proposal.

J-021-120

Thank you for your comment.

J-021-120 Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 9.

.

This chapter provides the assessment of potential environmental consequences associated with implementation of the alternatives within the region of influence (ROI) for recreational resources and public access.

Indirect Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. However, several agencies may have assessment such as GEPA, GWA, Dept, of Land Management, Dept. of Public Health and Social Services, Dept. of Parks and Recreation as it may impact land, parks and recreational facilities, health and welfare. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 10.

1-021-122

Terrestrial Biological Resources. This chapter contains a description of the potential environmental consequences to terrestrial biological resources associated with implementation of the action alternatives within the region of influence (ROI).

Indirect Impact. .

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. However, several agencies may have direct impact such as GEPA, GWA, Dept. of Land Management, Dept. of Public Health and Social Services, Dept. of Parks and Recreation, Dept. of Agriculture as it may have a direct impact and significant to terrestrial biological resources, destruction to the land, loss of habitat, and standards of living. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

DPW/CIP DEIS Comments 5-5

VOLUME 5

Guam and CNMI Military Relocation DEIS/OEIS

J-021-121

Thank you for your comment.

J-021-122

Thank you for your comment. Indirect impacts from such things as noise, lighting, and activity are not expected for the actions being proposed in Volume 5, except for the weapons emplacement site alternatives where it was considered.

J-021-122

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 11.

J-021-123 Marine Biological Resources. This chapter contains a description of the potential environmental consequences to marine biological resources associated with implementation of the action alternatives within the region of influence (ROI).

Indirect Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 12. Cultural Resources.

J-021-124 This chapter contains a description of the potential environmental consequences to cultural resources associated with implementation of the action alternatives within the region of influence (ROI).

Indirect Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. Several agencies such as Dept. of Parks and Recreation, Dept. of Chamorro Affairs, and DPW Division of Highways may have direct impact and significant as it affects environmental and cultural resources, and historic preservation. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

DPW/CIP **DEIS Comments** 5-6

VOLUME 5

Guam and CNMI Military Relocation DEIS/OEIS

J-021-123

Thank you for your comment. The EIS performed sediment transport modeling regarding indirect impacts from dredging activities, including worse-case scenarios based on multiple factors. Mitigation measures and BMPs are discussed in the is Chapter and summarized in Volume 7.

The identification of funding sources is not required under NEPA. This is a planning document not a funding document.

J-021-124

Thank you for your comment. Mitigation measures are summarized in Volume 7 of this Final EIS.

J-021-124 Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 13. Visual Resources.

J-021-125 This chapter describes the potential environmental consequences with implementation of the alternatives within the region of influence (ROI) for this resources.

Indirect Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. Area of impact and significant may be GEPA, DPW Division of Highway, and Dept. of Chamorro Affairs, Guam Visitors Bureau as my affect vistas and overlooks. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 14. Marine Transportation.

J-021-126 This chapter describes the potential environmental consequences associated with implementation of the alternatives for the AMDTF project within the region of influence (ROI) for marine transportation.

Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

DPW/CIP DEIS Comments 5-7

VOLUME 5

Guam and CNMI Military Relocation DEIS/OEIS

J-021-125

Thank you for your comment. In the event DoD becomes engaged with GovGuam DPW CIP in the construction management, efforts will be made to identify and/or address encumbered funding sources established under terms and conditions for construction activities discussed in said chapter 13.

J-021-126

Thank you for your comment. The proposed action would impact locations in the central and northern portions of Guam. The anticipated effects of the alternatives are discussed in other chapters of Volume 5; there will be no impact to marine transportation.

Chapter 15. Utilities.

Chapter 16.

J-021-127 This chapter describes the potential environmental consequences associated with implementation of the alternatives for the AMDTF project within the region of influence (ROI) for socioeconomics and general services.

Indirect Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. Areas of concern that may have direct impact and significance to socioeconomic impacts island-wide may be DPW Division of Highway, Guam Chamber of Commerce, Dept. of Revenue and Taxation, GPSS, GCC, UOG, DPHSS, DPS, GFD, GDISID, DYA, GVB, and/or just about all agencies of the government. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 17. Hazardous Materials and Waste.

J-021-128 This chapter describes the potential environmental consequences of hazardous materials and waste associated with implementation of the alternatives for the AMDTF project within the region of influence (ROI).

Indirect Impact.

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. Areas of direct impact and significance may be GEPA, GWA, GSA, and DRMO as it may impact soils, surface water, groundwater, air and biota. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

DPW/CIP DEIS Comments 5-8

VOLUME 5 .

Guam and CNMI Military Relocation DEIS/OEIS

J-021-127

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-021-128

Thank you for your comment. The DoD will be responsible for the safe handling and use of all hazardous materials and hazardous waste. In the event of an inadvertent spill, release, or leak the DoD will be responsible to ensure that clean-up occurs in an expedited manner and that risk to human health and the environment is minimized. GEPA's role (and other agencies) is to oversee and monitor the actions of DoD regarding the use and potential clean-up of hazardous materials and hazardous wastes. In this capacity GEPA should have the resources to accomplish the oversight mission.

Appropriate levels of funding will be granted to the DoD to ensure that the safe handling and use of hazardous materials and hazardous waste and any necessary clean-up may be performed.

Chapter 18. Public Health and Safety.

J-021-129 This chapter describes the potential public health and safety impacts associated with implementation of the alternatives for the AMDTF project within the region of influence (ROI).

Indirect Impact.

3 12

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. There will be a great impact and significance to public health and safety for the island as there will be a influx of residents subject to increased risk of contracting of disease and experiencing personal injury. Areas of impact would be DPHSS, GMH, GFD, DYA, DMH&SA, DOC, and Superior Court of Guam. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

Chapter 19. Environmental Justice and the Protection of Children.

J-021-130 This chapter focuses on the potential for racial and ethnic minorities, low income populations, or children to be disproportionately affected by project-related impacts.

Indirect Impact:

This chapter may have no direct impact to the DPW CIP Division unless it involves construction related activities. There may be an adverse affect due to the difference ethnic groups, low income and disproportionate families. Areas of impact and significance may by , DYA, DPHSS and areas of public assistance, DMH&SA, GFD, and Superior Court of Guam. There are no mitigation and proposed alternate methods to determine impact and damages to surrounding areas affected.

Funding Source:

Should DPW CIP engage in the construction management, DEIS does not identify or address funding source for this chapter. Prior to any construction activity, funding source must be identified, encumbered, and terms and condition established. There are no mitigation measures/action proposed that resulted in the temporary impact or alternative solution.

DPW/CIP **DEIS Comments** 5-9

VOLUME 5

Guam and CNMI Military Relocation DEIS/OEIS

J-021-129

Thank you for your comment. Volume 5, Chapter 18 discusses the potential public health and safety impacts of as a result of population growth associated with the Army AMDTF. Volume 5, Chapter 16 discusses the potential impact of an increased patient to health care provider ratio as a result of population growth associated with the Army AMDTF. Potential cumulative effects of the Army AMDTF action with other build up actions is addressed in Volume 7. As documented in this EIS, the DoD acknowledges the existing sub-standard conditions of social services on Guam and the interest to have DoD fund improvements to these services. DoD's ability to fund these services is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, the DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

J-021-130

Thank you for your comment. Impacts to social, health care and protective services on Guam related to the projected increase in population during the construction and operational periods are discussed in Volume 2 Chapter 19. DoD is proposing force flow reduction and adaptive management, among other mitigation measures, to reduce impacts to Guam residents during the construction period. DoD acknowledges the existing sub-standard conditions of key public services on Guam that particularly affect minority and low income populations and children, and the interest to have DoD fund improvements to these services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other federal programs and funding sources that could benefit the people of Guam, particularly its disadvantaged populations.

VOLUME 6: RELATED ACTIONS - UTILITIES AND ROADWAY

CHAPTER 2: PROPOSED ACTIONS AND ALTERNATIVES

Interim and Basic Alternatives:

J-021-131

The interim and basic alternatives for utilities and roadways can not meet the demand for the influx of military buildup.

At present, existing Government of Guam utilities and roadways are deteriorating rapidly even without the actual impact of increased personnel and activities here on island because of luck of maintenance due to limited appropriated funds and shortage of manpower.

Long Term Alternatives:

Long term Alternatives might be too late or will not be materialized before the mass transition of the estimated thousands of military personnel, families and support groups. Consider the time in studying, planning, environmental impact evaluation, appropriation and acquisition of private properties for road rights of way and utility easements.

Recommendation:

Utilities and Roadways must be ready in a safe, operable and hazard-free to accommodate the expected influx prior to their arrival on island.

6-1

DPW/CIP DEIS Comments VOLUME 6

J-021-131

Thank you for your comment. DoD shares your concerns over the infrastructure of Guam. Our studies indicate that the proposed interim and basic utility and roadway projects can meet the needs of the DoD relocation within the proposed schedule. These are direct impacts of the proposed relocation. DoD acknowledges that there would also be indirect impacts of the proposed relocation related to induced civilian population growth. The final EIS addresses these indirect impacts as much as possible as the DoD does not have detailed information regarding the existing infrastructure to pinpoint areas that may be underserved when this indirect impact occurs. DoD has no intent of overtaxing the civilian infrastructure and has been working with GPA and GWA on proposed solutions. Should it become apparent during the relocation preparations that the civilian infrastructure can not adequately perform, DoD would invoke mitigations of force flow reductions and/or adaptive management techniques to control the demand on this infrastructure. These approaches are discussed in the final EIS Volume 7.

VOLUME 7: POTENTIAL MITIGATION, PREFERRED ALTERNATIVES IMPACTS AND CUMULATIVE IMPACTS

Best Management Practices (BMPs) are regularly occurring/ongoing as summarized on Volumes 2 through 6. Various Preferred Alternatives are established for achieving the proposed Marine Corps, Navy and Army objectives as identified on Guam in regards to the relocation. Potential Impacts of the numerous proposed alternatives and actions are also reflected on subject volumes. There are also proposed mitigation measures of the preferred Alternatives identified in the same volumes.

J-021-132

In my point of view, relocation of military personnel and their dependents, H-2 workers and other temporary residents associated with the construction-related work will result significant increase in crime rate, prostitution, sexually transmitted disease, high cost of living, etc. Guam with only land area of 212 square miles, increase of population of such magnitude will have tremendous impact.

Some preferred alternatives operation are rated less impact than what is expected. Further evaluation is hereby recommended.

Chapter 4: Cumulative Impacts:

Cumulative Impacts is also outlined on subject volumes.

In addition to the above expected impact, the following are some of my concerns/comments/suggestions:

Airplane path should not be over the Residential area. It should be on the sea side for the safety of the residents.

Land acquisition for the needed right of way should be within fair market value.

Traffic reduction might not be enough during school days. In north, Route 3, cars exiting from Finegayan & Okkodo School in addition to Military Personnel & dependents will create backup at the intersection of Marine Corps Drive.

Massage Parlors, Adult entertainments should be far from Residential areas/Isolated.

DPW CIP /DEIS Comment

7-1

Volume 7

J-021-132

Thank you for your comment. The purpose and need for the proposed relocation is to meet alliance and treaty requirements. As discussed in Volume 1 of the Final EIS, the alliance agreement with Japan states that approximately half the U.S. Marines on Okinawa would be relocated to Guam by 2014. Adaptive program management is proposed as potential mitigation in the Final EIS and could potentially extend the construction period. As currently envisioned (and as discussed in Volume 7 of the Final EIS), adaptive program management would entail adjusting the construction tempo to reduce environmental impacts if it is determined that, through monitoring, key infrastructure systems on Guam are reaching "action" or "tipping" points. DoD would chair a multi-agency council that would oversee the application of adaptive management post-Record of Decision.

Based on comments received on the Draft EIS and new information since the Draft EIS was published, some of the operational impact analyses have resulted in higher levels of significance.

All commercial and federal flight paths are subject to federal review and approval to minimize impact to public health and safety. To the extent practical, flight paths are over submerged lands.

DoD acknowledges that the issue of land acquisition is a complex and sensitive one with both historical and contemporary contexts. Should DoD determine that additional land is necessary to meet its requirements, DoD policy requires that it negotiate with affected public and private land owners in good faith, seek agreements to acquire desired lands interests and pay fair market value. DoD is confident that all parties can reach agreement on any potential land acquisition. Further, any proposed major DoD land acquisition, such as those associated with the preferred alternatives for the main cantonment and live fire ranges, must be approved by the Congressional defense committees.

VOLUME 8: ADDITIONAL ITEMS REQUIRED BY NEPA

Chapter I:

No Adverse Impact

Chapter 2.2.1: DOD Land Use Planning

J-021-133

A 12 1

The Navy does not have zoning laws or codes but they're ideal and functional relationship among land uses that guides the development. In general the work ing zones that includes industrial, operational and mission support functions are district from the living areas such as housing and community support.

Significance:

In these instances it is important to incorporate as may of the local communities values into an assessment of compatibility and its conformance. Con formance in the sense of local land use plan and zoning regulations in guam.

Chapter 2.3: Tinian Land Use Planning

Chapter 3 and 4: No Adverse Impact

<u>Chapter 5: Relationship between short –term use of the environment and long-term productivity</u>

J-021-134

Short-Term:

Construction is expected to overlap. This overlap is the effect of spin of economic growth. Economic opportunities could off-set by rapid population growth, labor shortages cost of living increases, temporary demands on general services that will strain the quality of life.

Long-Term:

Operations are expected to have a positive impact if planning is forecasted and anticipated, although they maybe some adjustment because of population growth then local government increase its level of services in most agencies.

Chapter 6.1.1

Sustainability and small growth work to meet the needs of present build-up without compromising the future generations.

DPW CIP /DEIS Comment

8-1

Volume 8

The Navy acknowledges the potential for significant traffic impacts to off-base roadways. Traffic improvements are proposed to reduce the operational traffic impacts of military personnel and dependents in the northern part of the island (Route 3) and on Marine Drive to acceptable levels of service at key intersections, including access roads to schools. DoD concurs that residential areas and adult entertainment are not compatible land uses; however, DoD does not have influence over Guam land use planning and zoning. The Government of Guam is responsible for the review and approval of new businesses and building permits. Government of Guam's responsibility includes ensuring that new land uses are consistent with zoning laws and approved community land use plans.

J-021-133

Thank you for your comment. The land and submerged land ownership and use analyses in Volumes 2 through 6 includes land use consistency/compatibility are a criterion. The Guam community plans and zoning regulations represent community values. The proposed actions were evaluated for consistency and compatibility with Guam community land use plans (even if they had not been adopted yet) and existing land uses adjacent to the proposed actions. Inconsistencies with community plans are identified and mitigation measures are proposed in the Final EIS.

J-021-134

Thank you for your comment. DoD recognizes the importance of managing efforts in implementing the proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military

J-021-134

Significance:

Their own needs are accommodated and what about the needs of the people of Guam. As we continue to study the impact we need to ensure that it will be beneficial to both local and federal government including the resident of Guam.

We need to continue to have a component for the master plan and identify every infrastructure project especially the new facilities that should comply with legal mandates including rules, regulations and international building code.

Final Analysis:

Environmental Impact Assessment should focus more to develop a milestone plan outlining the major components to a feasible, cost effective and alternative solution to the existing condition of Guam.

DPW CIP /DEIS Comment

8-2

Volume 8

relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

The DoD has kept the public informed as required by NEPA, which includes holding public scoping meetings and public hearings and allowing the public to comment on the Draft EIS. DoD has had ongoing discussions with Cooperating Agencies (those federal and local agencies with special expertise or regulatory oversight) throughout the preparation of the Draft EIS and will continue these discussions with agencies through the completion of the Final EIS. As part of the engagement with Cooperating Agencies, they were asked to conduct an early technical review of the partially completed Draft EIS in late July 2009. The DoD has also met with elected officials and community leaders.

VOLUME 9: APPENDICES

J-021-134

Short-Term:

There will be a great demand in construction industry in private, public and also business sector. A shortage of man-power in construction industry will hamper the operation of some business and government of Guam work force, mostly engineers and construction inspector.

Long Term:

Permanent increase in numbers of military and civilian personnel and dependents, increase in number and type of major equipment assets to support the military personnel and operation, increase in numbers and type of training activities in guam.

Socioecomomic Impact:

Professional Pay Adjustment Scale is greatly needed to compete with U.S. Mainland to retain it's existing Engineering and Technical Staff from Public, Private and Federal Jobs.

Significance:

No, Environmental Impact on vertical hazard areas for proposed construction within vicinity. The impact mostly consist of the following agency; Guam Power Authority, Environmental Protection Agency, Solid Waste and Guam Waterworks Authority Dilemma. Monitoring is necessary due to direct and indirect impact to our environment.

Final Analysis:

J-021-135

Increase in numbers of military, civilian personnel, dependents, major equipment assets to support the military personnel and operation. Are Guam's main roads designed for heavy military equipment?

DPW CIP /DEIS Comment

9-1

Volume 9

Guam and CNMI Military Relocation DEIS/OEIS

J-021-135

Thank you for your comment. Existing roads and bridges on Guam have inadequate load capacity for heavy military vehicles. The proposed action includes pavement strengthening and bridge replacements on roads to be used by military vehicles during the buildup.

Department of Public Works - Division of Engineering CAPITAL IMPROVEMENT PROJECTS

Respectfully submitted:



DEPARTMENT OF PUBLIC WORKS

Draft Environmental Impact Statement (DEIS)

Highway Division



DEPARTMENT OF PUBLIC WORKS

Draft Environmental Impact Statement (DEIS)

VOLUME 4, VOLUME 5

DEIS REPORT - DPW ADMIN - VOL 1 & 9 JAN-5-2010





Lawrence P. Perez Directo: Andrew S. Leon Guerrero Deputy Director

January 19, 2010

Memorandum

To:

Director

Deputy Director All Division Managers

From:

Arleen U. Pierce, Controller

Subject:

Draft Environmental Impact Statement (DEIS)

(Report number 3)

Buenas yan Hafa Adai!

Transmitted herewith for your review and action are DPW's response to the DEIS related to the Executive Summary, Readers' Guide, Volume 4 and 5. The attached responses were received from the following divisions:

- Administration
- Building Construction & Facilities Maintenance
- Office of Highway Safety
- Highways

Should there be any questions regarding this memorandum,, please feel free to contact me at 646-3154 or the Fiscal office at 646-3231.

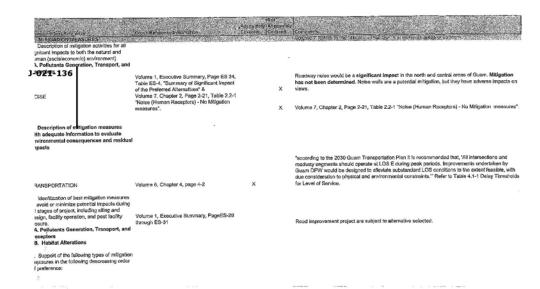
Un Dangkulo na Si Yu'os Maase.

Attachments

542 North Marine Corps Drive, Tamuning Guam 95913 • Tel (671) 648-3131 • Fax (671) 649-6178

VOL 4, VOL 5

ADMIN - Page 1 of 29



J-021-136

Thank you for your comment. Soundwalls have been identified as mitigation measures for traffic noise in the North and Central regions of Guam. They would be designed not to infringe on roadway intersections or to block driveways with direct access to the road. Soundwalls would also be located at areas between the road and residential backyards. During the design phase, other factors such as views of impacted residence or recreational areas would be taken into consideration.

Volume 7 has been updated to include sound walls as a mitigation measure for traffic noise, where determined to be feasible and reasonable in accordance with Guam's Traffic Noise Abatement Policy (refer to Table 2.2-1, Volume 7). In addition, best management practices for addressing noise generated during roadway construction have been included in Table 2.1-1 of Volume 7.

- Avoidance or prevention
 Minimization
 Reduction or climinatino over time
 Correction
- > Compensation
- Imprementation plan (Schedule) and siteria for performance for all mitigation neasures

Volume 6, Chapter 8, page 8-6

Responsible entity assigned to carrying out such mitigation measure
 Measures are socially and outurally

Measures are sociaty and converty acceptable
 Adequate financial and non-financial resources to implement the measure

"Guarn DPM would also identify noise receptors on undervaloped land for which development is planned, provided such development includes activity allow of the byear described in the NAC and provided his local parmits for the development his between excepted or operation from the NAC and provided that local parmits for the development have been excepted or operation from one force commencement of the noise analysis. Quarn DPM would furnish the results of highway traific noise analysis to local greenment officials and would be monarage found normativels and developers to practice noise compatible development. Local government coordination would be accomplished through the distribution." However, this is not summarized in Volume 7, of Milisgation strategy through Guarn DPM. Hocomment re-intenting Volume 6, Chapter 8 Noise Abstenant Information for "milisgation." Also, which will be the discussion on Noise wats in Volume 7, Refer to Volume 1, Executive Summary, page ES-34, Table ES-4.

Refer to item #5 above.

Quin y Hishways

Amount of Day Returney	a la company de la company de la company de la company de la company de la company de la company de la company La company de la	Security Street	Comment of the Commen
Country and the second	water attraction in contract of the		CONTRACTOR CONTRACTOR CAN CAST FOR SUIT SAME
Clear devertation of underlying read for the proposed project.	Volume 1, Exposive Summery, Page CS-29 Fireugh 66-31	*	Road improvement project see subject to s'asmative selected.
Glider detaclation of surround periods	riviga so-a-	ŵ	Frost improvement project are subject to inspiratoive energiest.
Adequate decorption of the proposed projects		x	
Proper Abores you	Volume 1, Executive Surreary, Proyel 500	355 F AS	
Ocyclotrolian of all rolovant alternatives	Brough 88-01	x	Picad improvement project are subject to alternative selected.
All Alternatives satisfy the stated purpose and need for the project		×	
Description of ah atternatives softens or projects that were, or are, being exmaldered		×	
Description of Note in windows and in contract an execution process and result Description of Common assistationing in the Person of company defined involving boundary errors 1 Propriate Common Environment. • AP Recommon		206519P	Despair Despensive services (Leap 2017 Chrystale St
b. Surface Weier			
c. Solls and Guology			
I. Elological Coorfigura			
Wildflu and wegetaffon			
b. Community and Nabitat Characteristations c. Resispically Significent focuses			
C. coungiously algorithms focused 5. Waster Menacoment and Politikan Provuntion			
s. Locations of expected wasip disposal or displaces			
 Description of wards murtage went techniques 			
c. Projected waste sharesweadow			
	Velvine 1, Elecutive Summery, Page ES-34,		Roadway notes would be a significant impact in the north and central areas of Gason. Mitigation
d. Naiso	Table 59-4, "Summary of Significant Impact of the Preferred Alexandres"		hes not been determined. Noise usale are a potential religation, but they have edverse impacts
d. Roseo I. Bouloeconcen's Environment	to translate visitationer,	×	views. (Earskilohäng energistions between organization or conditioning statements)
a. Land uce		×	
ts. Purposition and Housing			
a. Economic Activity			
d. Constructly Services and Public Finance			Maderal Righways Administration has prepared the transportation modeling, unulysis for non-resil
a. Travagoriation	Volume 1. Resouble Summers, Page, ES-92: Volume 1, Chapter 1, Section 1342, "Congressing Agencies", Page 1-38: Section 1,102.3: "Transportation", open 1-43.	v	visions reginally increasant may propose the taloptomorpological products of increasing proposed may applicate and controvation limpod analysis that explains and to be seen temporal Visiones it was of the Control Ediffolia. Feeling highways Administration is using the color WEADERS in control Ediffolia enables in highways Administration in ERPL, of their proposed reader with Control Ediffolia enables and their proposed readers and their seen of their proposed readers the New Yorkship the Princil Ediffolia and est publication princil to their their PROI to conclude their their New Yorkship the Princil Ediffolia and est publication princil to their PROI to conclude their MEASE and their seen and their proposed to the princil to the princil to the control to conclude their MEASE and their seen and their proposed transfer of their proposed tr
	Elizabeth The Special Control		"Proteinally construction on Guern would have a significant adverse Language on resoluting use during
	Volume 1. Emerative Summary, Page 53 34,		construction. Miligadius would include a Tabilic Management Plan implemented by the Federal
	Table ES-4, "Surmary of Significant Impact of the Paulament Attachetisms"		Highway Administration that would identify measures to reduce throads during the construction
f. Health and Scloty	tive substitute between Asia,	×	period."
Cultural Resources			
a. Anthresingled sites reliding to the project			
 Policonicological nities in religion to the project Metodical sizes in solution to the project 			
d. Enterethered, religious, supervisio, or exchangle these in metallics to the great	na .		
		DECEMBER OF SERVICE	STATE OF THE STATE
		COUNTY IN AC	表表示。 10.1000
The Euroistonemental Impact Assessment discusses primary, excondury, and unselective Impacts cluring oil studen, including initial site procession and			
untercore imports ourseg as sought, providing transition proposition and triultuation, facility constitos, and good facility or site closure.			
Pollutants Generalize, Transport, und Receptors			
a. Air flascurons			
Water Feeoignes			Hired information of "aformmater drain system" in contaminent exists sciencilities in medically
e. Version Principalities.			conclusion.



J-021-137

Thank you for your comment. The Executive Summary in Volume 1 presents a summary of the proposed action's impacts and mitigation measures. Mitigation measures for roadway construction impacts are discussed in greater detail in Volume 6, Chapter 4 - Transportation.

J-021-137

E. Holder Authorition

J. Casoline of strating was insurpressed procedures for blankers, burstless of strating was insurpressed procedures for the strategy of Exposition of Strating Conference of the Strating Conference of Strat

- > Community and Habitat Characterizations
 > maps and description of the equatic, welland, and temestrial
 communities continued in an activated the project site.
 6. Enodepically Significant features
 expond to foreign excorporation by the project site (e.g. Elocated
 along a flyway or other biological corrison.)
 exposured to consigned interfaces of the project site (e.g. zuzirient source
 professional configuration of the project site (e.g. zuzirient source
 Characterisation of relevant disputence regimes, notated and projectsized (e.g. Rock), fin. cicki
- induced (e.g. floods, fire, etc)

 > description of hydrologic process (e.g. ground and surface water flores
- and durations)

 > description of important blotic interactions (a.ge. Interdependence of plants and animals at the site and with other steps)

 2. Waste Stanagement and Pollution Prevention

 a. Loaddons of expected waste disposal or discharge
- b. Description of waste management techniques
 c. Projected waste characteristics

J-021-138

- b. Population and Housing

 > demographic Information (e.g., wrenings household size, age,
 agained cellerablant, eithir conspicability, and community exhesion)

 > description of present economic activity (e.g., light)

 > description of present economic activity (e.g., light)

 > cleanifying of unique features of business community (e.g., light)

 > cleanifying of unique features of business community (e.g., light)

 > cleanifying of unique features of business community (e.g., light)

 cleanifying of unique features of business occurrence of community (e.g., light)
- > consideration of interplay among economic activity, capacity of public services, and flocal ability of community to respond to capacity needs
- Community Services and Public Finance
 description of existing public facilities and services within the vicinity of perject, including existing level of use and remeining capacity to accommodate orawin.
- accommodate growth

 a. Transportation

 > description of all relevant forms of transportation (gollines)

There are no discussion or information regarding "rights of any" acquisition for read widening projects associated with read situations for the continement or training areas. Recommend identifying sensolated properties that would be considered for "rights of way" acquisition" and provide a proposed funding source to the mitigation.

J-021-138

Thank you for your comment. Land acquisition for off-base roadways projects are discussed in Volume 6, Chapter 10. The off-base roadway projects may be funded through the Defense Access Road (DAR) Program and annual allocations throught the U.S. Department of Transportation (USDOT) Federal Highway Administration (FHWA). The DAR Program provides the means for the Department of Defense (DoD) to pay a fair share for the public highway improvements required as a result of a sudden or unusual defense-generated traffic impact or unique defense-related public highway requirement. Volume 6, Chapter 1 has been updated to include a list of potential DAR projects. The DoD commits to seeking funding for these projects.

The DoD, Guam Department of Public Works and FHWA are continuing to work together to identify projects eligible for funding under the DAR Program. The DoD will lead an interagency council which includes the USDOT to seek solutions to island-wide traffic issues.

> cament twife volumes . Volume 2, Chapter 15 (Flates to Volume 6):

> current twife volumes . Volume 6, Chapter 4
> current twife capably . Volume 6, Chapter 4
> provisions of public benegoration . Volume 6, Chapter 4
> assessiment of the adequacy of the systems for modeling peak
commonly compromission and operation.

1. Health and Staffor . In this capable of the systems of the stafform of the

"according to the 2000 Guism Transportation Plan it is recommended that," All intermediates and making resignation should specified at LOSE Guiding passis persons, improvements understand to Guism EVPV would be designed to allevide authoritiests of Concellents to the extent feasible, usin dust better than the property of the contract of concellents on the extent of contraction of the contract of for Level of Grands.

*according to the 2000 Courn Transportation Plan it is recommended this, "All intersectors and swahnly eigenests should opened at LOS III during peak periods, improvements understate by Gearn DNAY works be designed to all

Claire Tell Retirements

Given Yalk Adequated Microards

Adequated Microards

Adequated Microards

Adequated Microards

The Enfortemental Impact Assument
discourses privary, supportance during all sugges,
contraction, solidly contract charge of sugges,
contraction, solidly contract, many part

Laboratories

In Problement Generation, 7, tonesport, and
problement Generation, 7, tonesport, and
problement Generation, 7, tonesport, and
problement Generation, 7, tonesport, and
problement Generation, 7, tonesport, and
problement Generation of emissions sources and
your contraction of emissions sources and
Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

Advances

d. Biologisal Recourses
> consideration of potential losses of
biological resources within site boundaries
> decorption of effluent and emission
concentrates and site potential effects to the
environment.
> discussion of biologoumalitative effects
from fleolity emissions and discharges.

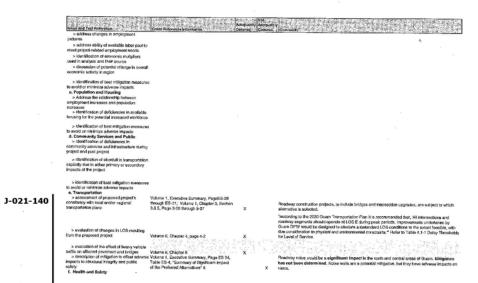
| Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part |

Guam and CNMI Military Relocation DEIS/OEIS

J-021-139

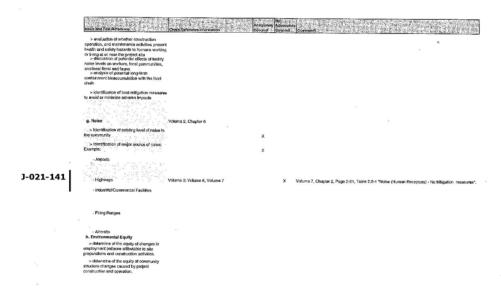
J-021-139

Thank you for your comment. The rights-of-way discussions are presented in Volume 6, Chapter 10, Land and Submerged Land Use.



J-021-140

Thank you for your comment. Soundwalls have been identified as mitigation measures for traffic noise in the North and Central regions of Guam. The sound walls would be designed not to infringe on roadway intersections or to block driveways with direct access to the road. Soundwalls would also be located at areas between the road and residential backyards. During the design phase, other factors such as views of impacted residence or recreational areas would be taken into consideration.



Thank you for your comment. Please see response to J-022-137.

- > Identification of best mitigation measure as avoid or minimize adverse impacts 5. Guithwalf Resources a. Identification of bishorical or cultural b. Discussion of mitigation measures c. Determine of interfer the Abelity components are designed with consideration

	A Three Car State Control of	Add	Mot duately Adequ	etely	
	Issue and Text Reference	Cross Reference Information Co.	rered Cover	ed-	Comments
	III. MITIGATION MEASURES			SE TON	Volume 7 Refers to the Mit gation Plan Summanes for all areas of concern
	1. Description of mitigation activities for all		COLUMN TO STATE OF THE PARTY.		
	signicant impacts to both the natural and				
	human (socialeconomic) environment)				
	A. Pollutants Generation, Transport, and				
1.	0210142				
,	021-142	Volume 1, Executive Summary, Page ES 34, Table ES-4, "Summary of Significant Impact of the Preferred Alternatives" &	>		Roadway noise would be a significant impact in the north and central areas of Guam. Mitigation has not been determined. Noise walls are a potential mitigation, but they have adverse impacts on views.
	NOISE	Volume 7, Chapter 2, Page 2-21, Table 2-2-1 "Noise (Human Receptors) - No Mitigation			
		measures".	>	<	Volume 7, Chapter 2, Page 2-21, Table 2.2-1 "Noise (Human Receptors) - No Mitigation measures".
	2 Description of mitigation measures with	,			
	adequate information to evaluate environmental consequences and residual impacts				
					"according to the 2030 Guarn Transportation Plan It is recommended that, "All intersections and roadway segments should operate at LOS E during peak periods, Improvements undertaken by Guarn DPW would be designed to alleviste substandard LOS conditions to the extent fessible, with due consideration to obvisical and environmental constraints." Refer to Table 4.1-T Death Trussholds
	TRANSPORTATION	Volume 6, Chapter 4, page 4-2	X		for Level of Service.
	 Idenfitication of best mitigation measures to avoid or minimize potential impacts during all stages of project, including siting and design, facility operation, and post facility 	Volume 1, Executive Summary, PageES-29			
	closure."	through ES-31			Road improvement project are subject to alternative selected.
	A. Pollutants Generation, Transport, and Receptors B. Habitat Alterations				

Thank you for your comment. Soundwalls have been identified as mitigation measures for traffic noise in the North and Central regions of Guam. They would be designed not to infringe on roadway intersectons or to block driveways with direct access to the road. Soundwalls would also be located in areas between the road and residential backyards. During the design phase, other factors such as views of impacted residences or recreational areas would be taken into consideration.

Volume 7 has been updated to include sound walls as the mitigation measure for traffic noise, where determined to be feasible and reasonable in accordance with Guam's Traffic Noise Abatement Policy (refer to Table 2.2-1, Volume 7). In addition, best management practices for addressing noise generated during roadway construction have been included in Table 2.1-1 of Volume 7.

الله الله الله

| Size and Text Reference (information | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Covered | Cover



Arleen Pierce <arleen.pierce@dpw.guam.gov>

Draft Sheet

Mario Garcia <mario.garcia@dpw.guam.gov>
To: Arleen Pierce <arleen.pierce@dpw.guam.gov>

Tue, Feb 9, 2010 at 5:08 PM

Ms. Pierce,

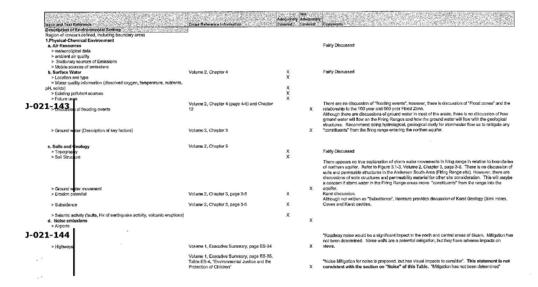
Attached is my document that I am using to finalize my findings (perceptions) on the DEIS. For the most part, I have used the NEPA document that I had provided in addressing issues along the way. However, if I felt that their was some "speculative" language within the DEIS that warranted further information or investigation, I entered those comments. Because of the voluminous information, I had chosen to focus on a couple critical issues and not all. My hopes was that the other divisions and agencies would be able to provide the coverage in their frudiciary capacity's.

When we meet, I will discuss how my document works.

v/r Mario Garcia

CONFIDENTIALITY NOTICE: This email transmission is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you are not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this transmittal or the information it contains is strictly prohibited. Misdellvery of this transmittal does not constitute waiver of any applicable privilege. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments

DEIS EA Framework.xls



Thank you for your comment. The DoD and regulatory agencies are equally concerned about preventing contamination of surface waters and groundwater (particularly drinking water aquifers). The Final EIS describes numerous programs and actions that will be taken to protect surface waters and groundwater from potential contaminants. Refer to Volume 9, Appendix D, Project Description Technical Appendix, Munitions, for a discussion of the munitions and constituents of concern associated with the proposed ranges. Range designs include targets with physical barriers behind the target, such as an earthern berm, that are designed to stop and contain the spent round. Best Management Practices (BMPs) are used to further contain spent rounds, fragments and materials from weapons firing, and reduce any impacts to the environment. The proposed ranges will be designed and maintained in accordance with all applicable federal and Government of Guam regulations. Specifically, Military Handbook 1027/3B contains procedures for reducing potential impacts from ranges through the implementation of BMPs. These include introducing soil amendments, vegetation management, engineering controls, instituting contaminant monitoring, reclaiming, and recycling. With ranges, lead is the primary leaching contaminant of concern and best management practices can minimize or prevent leaching of this constituent. Impact rounds from pistol rounds generally stay intact and impact rounds from rifle rounds often fragment. Intact rounds and rounds fragmented into relatively large pieces are not easily transported by natural transport mechanisms (such as groundwater) and are largely contained within the berm or physical barrier where they can be recovered and disposed. Through the proper design of ranges, application of BMPs, and monitoring, the potential for groundwater contamination would be minimized. BMPs can reduce or eliminate the leaching of lead to the environment. These procedures include controlling soil pH to between 6 to 8 to prevent dissolution of lead, mining of lead from back stop berms, implementing a soil leaching monitoring program, and adding phosphate containing soil



amendments to bind dissolved lead to the soil. Prior to building the ranges, an engineering study would determine the minimum depth of soil cover to ensure sufficient soil cover of the limestone, and to assess the suitability and optimum technique to add soil amendments such as phosphate to prevent lead leaching. In addition, when percolating water reaches the porous limestone the pH will increase, encouraging the precipitation of lead out of solution. The DoD will monitor for selected contaminants of concern. If monitoring identifies significant impacts, such as indications that chemicals of concern may exceed regulatory standards, reduce beneficial uses, result in adverse human or environmental health effects, or conflict with federal or Government of Guam regulations, then additional action would be taken to address these impacts. Furthermore, the Final EIS has been revised to explain how volcanic basement rock protrudes up through the limestone of the Northern Guam Lens Aquifer (NGLA), thus separating nearly all of the proposed ranges from groundwater supply wells. The low permeability of the volcanic rock acts as a barrier to groundwater movement. A figure in the Final EIS supports this text description.

J-021-144

Thank you for your comment. Soundwalls have been identified as mitigation measures for traffic noise in the North and Central regions of Guam. They would be designed not to infringe on roadway intersectons or to block driveways with direct access to the road. Soundwalls would also be located in areas between the road and residential backyards. During the design phase, other factors such as views of impacted residences or recreational areas would be taken into consideration.

Volume 7 has been updated to include sound walls as a mitigation measure for traffic noise, where determined to be feasible and reasonable in accordance with Guam's Traffic Noise Abatement Policy (refer to Table 2.2-1, Volume 7). In addition, best management practices

> description of present and historic land us

J-021-145

Volume 1, ES-8; Volume 1, ES-15; There was an extensive Screening serleysis for firing ranges, and non siring ranges that samined various peographical alternatives on Guern. Bassed on the Analysis, ...

Volume 1, ES-15, "Core Competency" Volume 1, ES-16, 2nd to fast passgraph: "The Matrice Corps utilizately defines to conduct..." Volume 1, 2-17, 2nd to last peregraph: "The Matries Corps ultimately desiras to conduct..."

Volume 1, 68-16, "The QDR will specifically evaluate than need for sold/level Manne Coppe and principle fields." In Jugot 1-24; "Lifeting Volume", 1, Degis 1-24; "Lifeting Volume", 1, Degis 1-24; "Lifeting Volume", 1, Degis 1-24; "Lifeting Volume 1, Degis 1-24; "Lifeting Volume 1, Degis 1-24; "Lifeting Volume 1, Degis 1-24; "Lifeting Volume 1, Degis 1-24; "Lifeting Volume 1, Degis 1-24; "Lifeting Volume 1, Degis 1-24; "Lifeting Volume 1, Degis 1-24; "Lifeting Volume 1, Degis 1-24; "Lifeting Volume 1, Chapter 2, page 2-15; 1st Buffel Polist

Volume 1, Chapter 2, page 2-16, 2nd Bullet Volume 1, Chapter 2, page 2-15, 3rd Bullet (Firing Renge Issues)

Firing Rangea

What is the analysis?

What is the Cooperisory Tushing requirements? How where these basing requirements maintenance in Japan? What were the Cross ender the present families endowment that needs to be established on Japan? What were the Cross Completions you four leaving date completed and common in Japan (To allow relevence)? Where is the discussation of current training facilities in Japan for "Core Completions" to see reference for Committening for self-time in Japan for "Core Completions" to self-time informations?

Reposations persignified.
When is the 2006 CRG for reference(?) How is the 2006 CRG reference to the current "Mining respect used algore? How is the reference to the current "Mining respect "or Gwarn? What analysis was concluded to develope "proposed firing respect" or Gwarn? What are the "Cross Competitions" using another list of ceglightment and environs associated with it? What is the Marine reference associated with it? What is the Marine reference associated with it?

The dimensions noted of the small range complex meets the requirements on Andersen AFB Firing

The dimensions of 3,800 Pt does not meet the Andorson nor the proposed fining ranges capabilities. There are not be level included in Youtume 2 for the ,50 Gilbbar and MRS 124 him Entiring ProjectMar. The Filing Range requirements on Routs 15 does not know the MSSO for last disseason. The end of the tings project for the end of the Msson, Thore is will be no natural or man-made barrier to assist in "halfel protection" (burn augmented, 1,80 de registation cleaned for the Andorsen Pring Range is about 200 note of disseasons envent the proposed 90% above "augmentation for the Andorsen Pring Range is about 200 note of disseasons envent the proposed 90% above "augmentation". Also there is no country country all measures on the Andorsen Filing Paringe.

X This training requirement was not discussed in Volume 2, "Noise" requirements.

for addressing noise generated during roadway construction have been included in Table 2.1-1 of Volume 7.

J-021-145

Thank you for your comments. The comment inquires as to the relevance of the 2005 QDR to specific training ranges. This document was not a justification for specific training or training ranges and therefore is not referenced in those sections. The specific training needs and discussion of the associated alternatives criteria for training ranges is discussed in Volume 2.

As discussed in the EIS, the Quadrennial Defense Review for 2010 is evaluating future joint training need, to include Marine Corps training and the suitability of CNMI to meet these future requirements. It has not been published at this time. Please see Section 2.2.4.5. of Volume 1.

There would be sufficient room for 3,820 ft lanes for a Machine gun Multi-Purpose Range for both alternatives at the Route 15 lands and have room for a collection berm at the end of the lane. Please refer to Volume 2, Chapter 6.2.2.2 for the noise analyses for this range. Additional analyses have been added as a result of foliage attenuation and barrier attenuation in Volume 2, Chapter 6.2.8. The parent report prepared by USCHPPM can be found in Appendix K.

Hand grenade training range noise analyses are also found in the aforementioned chapters.

Mariansa Island Range Complex (MIRC)

Volume 1, Chapter 2, page 2-15, 4th Bullet

Volume 1, Chapter 1, page 1-11, section 1.2.6, second paragraph Volume, Chapter 1, page 1-11, Section 1.2.6, talled culter 1. NOTS small arms ranges support small arms and machine gun training up to 7.62-and and sniper training to 1.62-and and sniper training to 1.62-and sniper training

Volume 1, Chatper 1, page 1-14, 2nd para.

Volume 1, Chapter 1, Page 1-14, last para.

Volume 1, Chapter 1, page 1-45, Table 1.11-1; "Documents to be theorporated by Reference" (Refer to MRCCDO) Volume 1, Chapter 2, and pera: "Fraining could star the form of..... Thus, required construction would include the fecilities and infrastructure...

Volume 1, Chapter 1, lost bullet point Volume 1, Chapter 1, page 2-7, 2nd Bullet point -1...organizations require proximity to ranges and sharing areas, are well as traditional base facilities?

This training requirement was not discussed in Volume 2, "Noise" requirements. Air Force and Navy has an "exclusive ordinance" area for disposition of un-exploded munistions. There are no X discussion of either of their "explosive ordinance" structures in this DEIS.

- X Reference may does not show the lend percels associated with the current training facilities.
- There is no discussion of the aspabilities and distance of the Anderson AFB Firing Range which is part of the MIRC structures. Why was the Anderson AFB Firing Range omitted?

The MRC EDICASE. In security of the control of the

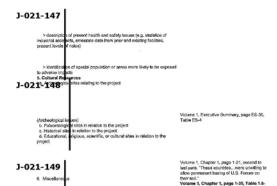
- There is no analysis to this "statement" or reference to the MIRC equirements since the MIRC does not have any "proposed training structures" other than thosed proposed in this DEIS. Statement is mithiated by
- There is no analysis for the proposed Firing ranges nor are they identified in the MIRC, or QDR, but only proposed ranges in this DEPS.
- This statement appears that the proposed ranges are for a matter of convenience not necessarly of X—using of the current MIRC structures and possible uses of Tintan developed range requirements.

J-021-145 Volume 1, Chapter 2, page 2-18, 1st Builet Point There is no analysis for the proposed Firing ranges nor are they identified in the MIRC, or QDR, but only proposed ranges in this DEIS. There is no analysis for the proposed Fifting ranges nor are they identified in the MIRC, or CDR, but cody unposed ranges in this CES. Only unposed ranges in this CES. Only unposed ranges in this CES. There is no analysis for the proposed Firing ranges nor are they identified in the MIRC, or CDR, but only unposed ranges in the DES. There is no analysis for the proposed Firing ranges nor are they identified in the MIRC, or CDR, but only unposed ranges in the DES. Memory, for the dimensions noted (Egy day W. X-Fr) to 1 or approximately 6.4 some, the Ancientes Firing Range Complex can be expended to the south side (1718 to W. X-FC). As (1). Volume 1, Chapter 2, page 2-18, 2nd Bullet Point Volume 1, Chapter 2, page 2-15, 3rd Bullet Point Volume 1, Chapter 2, page 2-18, 4th Bullet Point > Operations and Revening . > Semantic Section (a) an example household size, e.gs., specially set of the semantic set of defendable (a), an example household size, e.gs., special set defendable, c. third composition, and community cohesion) of Economical Activity (a), a number and type of boundaries, activities converse, conveniently (a), a number and type of boundaries, activities revenue, conveniently (a), an example (a), the production of the semantic conveniently (a), a high custions of profit, declaring testin, or downtown revolutions; Internal Analysis d. Community Services and Public Finance > description of existing public facilities and services within the vicinity Internal Analysis of porject, including existing level of use and remaining capacity to J-021-146 "according to the 2000 Guarn Transportation Plan It is recommended that, "All intersections and readway segments should operate at LOSE Guing peak periods, Improvements understation by Guarn DMV seath to designed to substrate adequated LOS conditions to the estantificeasies, with due consideration to physical and environmental constraints." Refer to Table 4.1-1 Delay Thresholds assessment of the adequacy of the systems for meeting peak emands during construction and operation. Volume 6, Chapter 4, page 4-2

Guam and CNMI Military Relocation DEIS/OEIS

J-021-146

Thank you for your comment. Volume 1 is an overview of the proposed action and alternatives, and as such, only provides a summary. Details of the proposed actions and alternatives for roadways such as affected routes and bridges and associated project numbers are presented in Volume 6, Chapters 1 and 2. The relationship of the 2030 Guam Transportation Plan to the proposed roadway projects is also discussed in Volume 6, Chapters 1, 2 and 4.



oise confours not just for construction, but for all training requirements (small arms, grenules, pocialized, all-crafts) for all arms. Need approved flight contrion from FAA for further enalisys for increase entering LDZ in Anderson South Aras (South requirements). Includes of all other support treates for region (not enough information). This information will provide the community a better nderstanding of flight paths all strongts (commercial and military) current and projected to analyze olse contours and dB levels for opinion.

Noise contours set just for construction, but for all training requirements (asnall arms, grensidas, specialized, air-crafts) for all armss. Need approved flight conidors from FAA for father analyst. This information und provide the commenty a before receives anding of flight point all aircrafts (commercial and edition) current and projected to analyse noise contours and till levels for opinion.

Need to discuss about coves in East of Anderson South.

Midigation would be conclusted in accordance with Programmatic Agreement with Shata Mistoric Proportion Office that would require avoidance, convey, morehavire, during constitution, cloth conveys, busing documents, public advocation, and treasing of infrainty personner. Shatles of S-Ma. Consideration of the state

Need to discuss about covers in Fast of Anderson South

J-021-147

Thank you for your comment. Helicopter flights expected from the proposed USMC Relocation would use flight paths from Andersen AFB to the training areas over water and would not use overland routes currently used by Andersen AFB aircraft. Since the paths do not invove establishing Special Use Airspace, FAA approval for these paths are not required.

J-021-148

Thank you for your comment.

J-021-149

Thank you for your comment, which focused on how Guam was chosen for the military relocation, rather than other places within the Pacific region. Volume 1 at Section 1.4 in the Draft EIS provides a Global Perspective Background, which explains the various international and military capability requirements that were considered for the realignment of military forces. Because this section of the Draft EIS explains the background analysis of strategic military capability locations within the Pacific, it will remain the same for the Final EIS. For instance, this section describes how several locations were considered throughout the Pacific region for the military relocation based upon 1) response times, 2) freedom of action (the ability of the U.S. to use bases and training facilities freely and without restriction at a particular locale), and 3) international treaties and agreements with Japan and other Western Pacific allies. The U.S. locations in the Pacific region considered for the military relocation were Hawaii, Alaska, California, and Guam. Non-U.S. locations considered included Korea, the Philippines, Singapore, Thailand, and Australia, because they are allies to the U.S. and are well situated for strategic force deployment. After analyzing the international and military capability requirements for each locale mentioned above, Guam was the only location for the relocation that met all the criteria. DoD recognizes the importance of managing efforts in implementing the



This is not consistent with the comments on Teb "Overall Review - Consideration of all relevant attendance (Readings Structures), name ES-32, selectoring "Boat Management Practices"

Need to also cross-reference with Volume 7, Mitigation Summary before making final comment.

proposed military relocation to reduce adverse effects on the people of Guam, its natural resources and infrastructure. The EIS process identifies ways to implement the proposed relocation while minimizing adverse impacts. DoD will continue to work with the people and Government of Guam to ensure that the short term impacts of construction are managed effectively and that the long term effects of the military relocation reflect DoD policies to be good neighbors and responsible citizens on Guam.

Small arms, machine guns, hand greendes, mines and mortans; support logistic vehicles, m2.50-Calibor Heavy Berneled Machine Gun, M203 40mm Greende Launcher and Expeditorary Fighting Vehicles.

Recommend the utilization of the Andersen AFB Fiving Range

Recommend that the MIRC structures on Andersen AFB Fishing range be adjusted to economicidate the Maries Training Requirements. Also recommend adding the Army Naddonal Guards training requirements of Equipment to the Entity (EdiBloss.

Recommend thicopopuling this trailing requirement on the current MIRC structures, Andersen AFB Princy Gonge.

Reconsistent durine research with the Nevy and Air Force "explosive ordinance" structures for the Demolition Ranges. There should be proper "command controle" in place for structures. Also recommand "cross-service" bairing for this muelton requirement (when applicable) for joint range use.

Recommend providing maps with land parcels for current MIRC structures. Also recommend providing maps for proposed MIRC Structures.

Recommend not arriving forward proposed range complex until all training requirements (new weapons systems) are identified, inclusive of joint services requirements (Army, Air Force, etc.)

What are the reference points in Volume 2 and 3 that refers to the "additional, projected training regularization of training requirements are "additional" then how costs the offset the proposed "COREL Competency varian

Recommend completing an enablasis of current MIRC structures, completing the DESIGES for the proposed MIRC structures, and providing proposed Their training enablasement package for a comprehensive analysis. It would be profest for the professional professional recommend of Quality analysis. It would be professionally developed the first procedures of all training range structures" and not before hand. No acquisition of lands!

Need to reference Volume 3 and moving ranges to Tinian

Recommend completing an analysis of current MIRC structures, completing the DEIS/DEIS for the proposed MIRC structures, and providing proposed from training equipment producing for a comprehensive stratigle. It would be produced for the operament of Quarts reviews for all requirements for "all training range structures" and not before hand. No acquisition of lands!

This training requirement can be incorporated into the current MIRC structure on Andersen AFB Firing Range. Recommend incorporating into Andersen AFB Firing Range for joint operational use.

Need to reference Volume 3 and moving ranges to Tinian

This training requirement can be incorporated into the current MIRC structure on Andersen AFB Firing Range. Recommend incorporating into Andersen AFB Firing Range for joint operational use.

J-021-150

Recommend incorporating the following: 1, 2030 Quam Transportation Plans Routes that will be affected; 2, Bridgers; 3 and Project Numbers. Also recommend providing 'trapp' of the proposed road projects to show relationships to the associated 'continement areas', and other project sites.

Guam and CNMI Military Relocation DEIS/OEIS

J-021-150

Thank you for your comment. Volume 6, Chapter 2 describes the roadway projects in detail. Affected routes and corresponding projects in those routes are illustrated in Figure 2.5-8. Bridge projects are shown on Figure 2.5-1 and described in Table 2.5-3 (GRN #35). Figures 2.5-9 to 2.5-12 show the cantonment areas and adjacent routes and road projects in the vicinity of the cantonment areas and are described in Table 2.5-3 (North Region).

J-021-151

Recontinend enough the fiding large to another location without denugting access to this natural exchaological site. Refer also to comments on Firing Range

This maybe best described in Volume 1, Chapter 1, page 1-23, recognizing 1... (Busin, which is US. Sovereign and that mosts the bestdom of action operational requirements for personant basing? Novement, the described on the service of the September 1 of September 1 in September 2, the present and the personal recognization of September 2, the propriation of September 3. Refer to how these address throught the DERS-

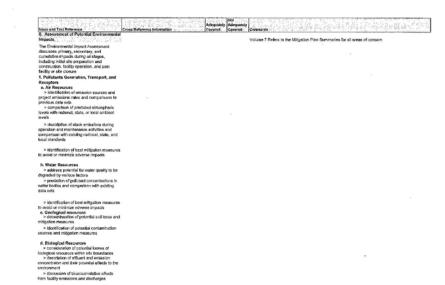
Guam and CNMI Military Relocation DEIS/OEIS

J-021-151

Thank you for your comment. The DEIS describes the intensive selection process that the DoD went through to select alternatives for the location of the firing range on Guam in Section 2.3.1. No other locations met the purpose and need of the proposed action.

J-021-152

Thank you for your comment.



> identification of boot miligation measures to ancid or minimize actions inspects 2. Initiate Alternitions > address potential for construction and also propression activities to all end of the construction installab > consideration of potential for executary changes in habition still-only and end - access and of possible premare the bot - access and of possible premare the bot - access and of possible premare the bot - access and of possible premare the bot	
address potential for construction and also preparation set-fries to after critical hatches consideration of potential for recondary chappes in habitists following construction and also preparation antifeless	
> contraideration of potential for secondary changes in habities Relaxioning consistention and size proposation and videos	
or displacement of vegetation habitat due to construction	
» introducation of charges in local appeals composition, of wheelity, and a fundaments executing from loss of a guarden levelature is located by both chargesprint execution for a local or minimize an adverse impeads. 3. Wester Management and Poliulision	
Description of ficially weath menungament disease and proceedings for transferred procedures for transferred, havening, and dispositions D. Descusions of provided is facility weath	
characteristics c. Identification of best alicipation measures to sovid or entirette across impacts 4. Sections consults impacts 3. Sections consults impacts 4. Sections consults impacts 5. Sections consults impacts 6. Sections consults 6. Chapter 4. X.	
J-021-153 *determination of confiding coming expending highs of way expedition for confidence or independent payering highs of way expedition for confidence or independent and land wave with sale properties as all land wave with sale properties or independent independent payering the considered for inject or invest dependent in a properties or independent indepen	ommend
> description of anticipated changes in projects are not discussion or information regarding highes of way" acquisition for road of projects associated with use of should record or training areas. Recording the results of the intellige and description of the fielding and description of the intelligence of	ommand tion" and provid widening
> identification of boot mitigative measurers projects associated with read shaukman for the environment of braining areas. Reconsidered the control of the	

J-021-153

Thank you for your comment. Potential right-of-way (ROW) acquisitions are discussed in Chapters 10 and 17 of Volume 6. Because design of these roadway improvements is not yet complete, it is premature to identify with certainty in the FEIS the parcels that could be affected. The DoD and FHWA will work cooperatively with the Guam DPW to identify funding sources for necessary property acquisitions for ROWs.

	bace and Test Reference	Cross Reference information	Adequately Covered		Connects
	in address changes in employment patterns in address ability of available labor pool to med project-related employment needs in denafication of economic multiplens used in analysis and their source.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	 discussion of potential change in overall economic activity in region 				
	> identification of best mitigation measures to avoid or reinimize adverse in c. Population and Housing > Address the relationship between employment kneeses and population increases > identification of deficiencies in available housing for the potential increased workforce				
	identification of best miligation measures to avoid or midmins adverse impacts d. Community Services and Public > lidentification of deficiencies is community services and infrastructure during project and post project.				
	 identification of shortfall in transportation capacity due to either primary or secondary impacts of the project 				
	> identification of bost mitigation measures to evoid or minimize adverse impacts e. Transportation > savetainted of proposed project's considered with local ander regional transportation plans.	Volume 1, Executive Summary, PageES-29 trough ES-31; Volume 1, Chapter 3, Sectio 3.6, Page 3-20 through 3-27	n x		Readway construction projects, to include bridges and intersection usgrades, are subject to which alternative is salected.
	> evaluation of changes in EOS secuting from the proposed project	Volume 6, Chapter 4, page 4-2	x		**Recording to the 2020 Central Transposition Plant at in recommended date, "All instructions and residency augments beneficially recording to the European Security Security Instructional the undersidant by Glaims (DRV would be dissigned to all-oxide substandard LOIS conditions to the extent featable, with date consideration to physical and environmental constraints," Refer to Table 4.1-1 Delay Tireveloids for Level of Service.
J-021-154	> evaluation of the effect of heavy vehicle traffic on effected povernent and bridges > description of méganien to offset adverse impacts to structural integrity and public selely 1. Health and Stafety	Volume 6, Chapter 6 Volume 1, Executive Summary, Page ES 34, Table ES4. "Summary of Significant Impact of the Preferred Alternatives" &	x	х	Roudway noise would be a significant impact in the north and central areas of Guom. Milligation has not been determined. Note writis are a potential militarion, but they have adverse expects on views.

J-021-154

Thank you for your comment. Soundwalls have been identified as mitigation measures for traffic noise in the North and Central regions of Guam. They would be designed not to infringe on roadway intersectons or to block driveways with direct access to the road. Soundwalls would also be located in areas between the road and residential backyards. During the design phase, other factors such as views of impacted residences or recreational areas would be taken into consideration.

	hases and Toxt Reference	Cross Reference Information	Adequately Ad-	quiately rened	Comments 14 Sept. 18 Sept. Sep
	> evaluation of whether construction operation, and maintenamon activates greated many size placed to humans working treatment and size placed to humans working to the size of the size o				•
	g. Noise	Volume 2, Chapter 6			
	> Identification of existing level of noise in the community		×		
	> Identification of major source of noise; Example:		×		
	- Airports				
-021-155					
022 255	- Filighways	Volume 2; Volume 6, Volume 7		x	Volume 7, Chapter 2, Page 2-21, Table 2.2-1 "Noise (Human Receptors) - No Mitigation measures
- 1	- Industrial/Commercial Facilities				
	- Firing Ranges				
	- Aircrafts h. Environmental Equity				
	> defermine of the equity of changes in employment patterns attibutable to site preparations and construction activities.				
	> determine of the equity of community structure changes caused by project construction and operation.				
e.	> identification of best mitigation measure so avoid or minimize adverse impacts				

J-021-155

Thank you for your comment. Volume 7 has been updated to include sound walls as a mitigation measure for traffic noise, where determined to be feasible and reasonable in accordance with Guam's Traffic Noise Abatement Policy (refer to Table 2.2-1, Volume 7). In addition, best management practices for addressing noise generated during roadway construction have been included in Table 2.1-1 of Volume 7.

and the second of the second o	Cépus Réference Information	Adequately Adequatel Covered	Contracrita	1000	AT THE ENDING TO STREET
5. Cultural Resources		LULLAND COLOR, produce, reconstruer			

identification of historical or outural

Determine of whether the facility
 components are designed with consideration

Issue and Text Reference	Cross Reference information		Not Adequately Covered	Comments
Ill: MITICATION MEASURES 1. Description of mitigation activities for all signicant impacts to both the natural and human (socialsconomic) environment; A. Pollutants Generation, Transport, and Receptors	Jerosa Australia de Marinalia	. 22945	Covered	Journment Volume 7 Refers to the Alligation Plan Summaries for all areas of concern
NOISE	Volume 1, Executive Summary, Page ES 34, Table ES-4, "Summary of Significant Impact of the Preferrod Altomatives" 8. Volume 7, Chapter 2, Page 2-21, Table 2.2-1 "Noise (Human Receptors) - No Mitigation		х	Roadway noise would be a significant impact in the north and central areas of Guarn. Mittigs has not been determined. Noise waits are a potential mitigation, but they have adverse impoverse. Volume 7, 1992 - 1993 - 1994 - 199
A Description of additional to accommodate	measures".		Х	source.
 Description of mitigation measures with adequate information to evaluate environmental consequences and residual impacts 				
				"according to the 2030 Gusm Transportation Plan it is recommended that, 'All intersections as roadway segments should operate at LOS E during peak periods. Improvements undertaken in Gusm DPW would be designed to alleviate substandard LOS conditions to the action feasible due consideration to obvisical and environmental constraints." Refer to Table 4.1-1 Delay Thro
TRANSPORTATION	Volume 6, Chapter 4, page 4-2	X		for Level of Service.
 identification of best mitigation measures to avoid or minimize potential impacts during all stages of project, including siting and design, facility operation, and post facility closure. 	Volume 1, Executive Summary, PageES-29 through ES-31			Road improvement project are subject to alternative selected.
A. Poliutants Generation, Transport, and Receptors B. Habitat Alterations				

Park a department address was a set	From 15 April 200 97 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Adequately Adequate	
	Cross Reference Information	Covered Covered	Comments
 Support of the following types of mitigation 			
measures in the following descreasing order			
of preference:			
> Avoidance or prevention > Minimization			
> Reduction or eliminating over time			
> Correction			
Conscion	Rights of way acquistion on road widening		
> Compensation	projects		Refer to "Assessment of Potential Impacts" Tab;
			In the second se
			"Guam DPW would also identify noise receptors on undeveloped land for which development is planned, provided such development includes activity sites of the types described in the NAC and
			provided that local permits for the development have been acquired or applied for on or before
			commencement of the noise analysis. Guam DPW would furnish the results of highway traffic noise
1			analyses to local government officials and would encourage local communities and developers to
I .			practice noise compatible development. Local government coordination would be accomplished
			through the distribution". However, this is not summarized in Volume 7, of Mitigation strategy through
Implementation plan (Schedule) and			Guam DPW. Recommend re-iterating Volume 6, Chapter 8 Noise Abatement Information for
criteria for performance for all mitigation			"mitigation". Also, what will be the discussion on Noise walls in Volume 7, Refer to Volume 1,
measures	Volume 6, Chapter 8, page 8-6	X	Executive Summary, page ES-34, Table ES-4.
6. Responsible entity assigned to carrying out	į		
each mitigation measure		X	Refer to item #5 above.
Measures are socially and culturally			
acceptable			
Adequate financial and non-financial			
resources to implement the measure			



LABOR

DIPATTMENTON HUMOTNAT MARIA'S, CONNELLEY, Director * ERICA H. DINPINGCO, Deputy Director

February 17, 2010

From: Guam Department of Labor (GDOL)

414 West Soledad Avenue, GCIC Bldg., Suite 400

Hagătña, Guam 96910

To: JGPO, c/o NAVFAC Pacific

258 Makalapa Drive Suite 100 Pearl Harbor, HI 96860-3134

Attention: GMPO

SUBJECT: DRAFT ENVIRONMENTAL IMPACT STATEMENT (DEIS)

Ref: (a) Draft Environmental Impact Statement (DEIS)

Enclosure (1): DEIS Comments submitted

Enclosure (2): DEIS Formatted Comments submitted

Enclosure (3): Guam's Workforce Strategic Plan 2005-2007

Enclosure (4): Letter to Jane Oates dated October 30, 2009

Enclosure (5): Pacific Workforce Director's Workgroup Resolution

Enclosure (6): Charter for Regional Workforce Development Council (RWDC)

Enclosure (7): Regional Innovations Grant Submission

Enclosure (8): GDOL Director's Testimony to DOI Office of Insular Affairs

Enclosure (9): Letter of Understanding between GDOL and Pacific Island Forum and Secretariat of the Pacific

Enclosure (10): Briefing with Major General David Bice

Enclosure (11): Briefing with USDOL Officials

Enclosure (12): Civilian Military Task Force (CMTF) Brochure

Enclosure (13): CMTF Labor Subcommittee Budget 2011 submittal

Enclosure (14): CMTF Comprehensive Plan

Enclosure (15): CMTF Labor Subcommittee Reports - 2007

Enclosure (16): CMTF Labor Subcommittee Reports - 2008

Enclosure (17): CMTF Labor Subcommittee Reports - 2009

Enclosure (18): Plans of Work (POWs) 2007-2009

Enclosure (19): RWDC Strategic Plan

Enclosure (20): RWDC Resolutions

Enclosure (21): Micronesian Chief Executives Summit (MCES) Joint Communiqués

- In accordance with reference (a) enclosures (1) through (21) are forwarded. The collated responses to the DEIS, enclosures (1) through (2) address our issues, concerns, challenges and recommendations regarding the Guam buildup and how it will impact the lives of the people of Guam. Enclosures (3) through (21) reflect transformation efforts on workforce development for Guam and surrounding insular areas in Micronesia.
- 2. In 2005, Guam Governor Felix Camacho's vision provided the leadership and strategic guidance, in enclosures (3) thru (17), beneficial to the workforce system. The commitment provided the program elements and services to improve the quality of life of the citizens of Guam and maximizes their potential for employment in a competitive

P.O. Box 9970 Tamuning, Guam 96931-9970 · (671) 475-7046 · Fax: (671) 475-7045 414 W. Soledad Avenue, GCIC Building * Hagātīta, Guam 96910 economy. In 2007, Governor Camacho and the Guam Workforce Investment Board (GWIB) modified the workforce investment system strategic plans to reflect transformation efforts and incorporated the Workforce Innovation in Regional Economic Development (WIRED) framework. The WIRED framework supports the development and education involving Guam, the Commonwealth of the Northern Mariana Islands, Republic of Palau, and the Federated States of Micronesia.

- 3. By adapting the new directives, the Micronesian Chief Executives endorsed the establishment of the Regional Workforce Development Council (RWDC) and began building on the strengths and assets as a unified region, preparing Micronesia's human capital for training opportunities (enclosures (18) through (21).
- 4. It is with a strong conviction that the GDOL stands committed to assist employers and job seekers with marketable skills address demand driven occupations in what will change the future of the economy of Guam. Applying the power of e3, education, employment and economic development, GDOL helps all who come through the One Stop Career Center looking for job placement for workforce readiness.

Maria S. Connelley

P.O. Box 9970 Tamuning, Guam 96931-9970 (671) 475-7046 - Fax: (671) 475-7045 414 W. Soledad Avenue, GCIC Building * Hagatha, Guam 96910



January 22, 2010

J-030-001

DEIS Comments submitted by the Guam Department of Labor

The top socioeconomic issues and concerns of the department are such that the approach must quantitatively measure where the island is now in terms of human capital, and forecast what it will look like incrementally by 2020; to identify what resources are available as well as what resources are lacking, and provide practical alternatives on how best to address these shortfalls in workforce development.

The plan for labor growth will specify all supporting data and assumptions used in making the recommendations. Some of these recommendations are the outcome of the Regional Workforce Development Council (RWDC) Strategic Plan for 2010-2015 as outlined at the 12th Workforce Summit held November 30-December 2, 2009.

The result of this process represents a coherent and practical framework aligned through the three overarching strategic Plan focus areas;

- 1. Workforce Demand Initiatives:
- 2. Workforce Supply Initiatives;
- 3. Comprehensive local/regional based training systems

It is recognized that the effectiveness of the strategic planning efforts is dependent upon the accuracy of the forecasts and on the ability of planning efforts to anticipate and adjust to the changes in the forecast.

Preliminary indications of the scope, magnitude, and duration of the military buildup strongly suggest for an immediate need for a comprehensive economic plan with specific focus on human resources, training, employment, and employment support (i.e. transportation, housing, child care, etc.).

Guam's labor market and the results of on-going military buildup discussions include concerns about workforce sustainability, long-term employment and the impact of foreign workers (H2B) to the local and regional community. This presents challenges for workforce related and socioeconomic issues.

The impacts of Service and Technical Capacity at Guam Department of Labor are:

- Compliance and Enforcement
- Needs for Allen Labor Processing & Certification Division (ALPCD) enforcement and compliance – considering all budget categories (personnel, equipment, supplies, rental, capital outlay, etc.)
- Funding associated with H-2B compliance and fraud/abuse prevention for ALPCD (Note: Recent amendments/changes were made to rules and regulations)



Guam and CNMI Military Relocation DEIS/OEIS

J-030-001

Thank you for your comment. Estimated impacts on Guam Department of Labor, Alien Labor Processing and Certification Division, workload and employment requirements are presented in Section 4.4 of the Socioeconomic Impact Assessment Study (Appendix F of the DEIS).

- o Technology and Systems
- o Personnel and Administrative Services
- Needs of GDOL to support an increased department workload as a result of the increased H-2B population to include:
 - Labor market testing within the Guam Employment Service (Wagner Peyser Act)
 - Support for Workman's Compensation & OSHA due to increase in construction activity and the injuries associated with this type of work
 - 3. Support for Wage & Hour division to prevent wage abuses

An evaluation of manpower and staffing needs is also being developed to support the delivery of service at the One Stop Career Center and partners. Youth programs are also being expanded and developed to be available to our youth.

Based upon the work that has been undertaken by the Labor Subcommittee, they have identified the following to be included in the Guam military buildup EIS/OEIS:

- An assessment and projection of wages by skills sets as well as
 other job desirability factors, including the potential for upward
 mobility, and a projection by age cohort from both Guam, Northern
 Marianas, and insular areas in the Pacific jurisdiction to measure
 potential labor supply alternatives, including attracting those
 considered non-employed away from continued dependence on
 public assistance programs is needed in the EIS.
- Identification and assessment of the sustained job increase after construction, including the sustained job increases in the military and public/private sectors is required to insure the island is not negatively impacted by meeting immediate short term needs and falling to provide for sustained requirements that could have negative implications for Guam's private sector and its military sector.
- A listing of training requirements to take the current workforce skill to the next level to meet as many of the skill levels anticipated well into 2025. Current training resources need to be evaluated for its current effectiveness in meeting present and anticipated future training needs as well as the capacity to provide specialized training to meet anticipated needs. The evaluation should include partners in the public sector providers such as the Guam Public School System (GPSS), Guam Community College (GSS), University of Guam (UOG), as well as private, non-profit training

providers such as the Guam Contractors Association Trades Academy (GCATA), Guam Hotel and Restaurant Association (GHRA), and other civic and private for-profit training providers. This is the concept of the power of e3: education, employment and economic development +1, ethics.

- The EIS must address the impact upon the availability of teachers and other specialty services the DODEA system will have upon Guam's public and private school systems. Inclusive within this assessment is not only the additional demand that will be created by an expanded DODEA system but also those military dependents that would be able to provide services to the civilian school systems.
- The EIS should provide a monetary quantification of the cost of training to be incurred by the civilian sector and the Government of Guam to meet DoD's labor requirements and an evaluation of all potential funding sources that may be available to address the training costs. Funding sources must be identified.
- An evaluation of potential workforce availability, including sources
 of labor, current and anticipated market for industrial skilled labors,
 and the barriers for attracting, recruiting, and retaining these labor
 forces to 2020.
- The EIS should address the impact the inclusion of military dependents will have upon federal dollars and training slots that would otherwise be available for Guam's residents who are displaced workers as military dependents also qualify under federal displaced worker programs. The EIS should identify mechanisms to mitigate any negative impacts.

Table ES-1. page iii - Off-island construction workers for Direct DoD projects and Off-island workers for Indirect /Induced Jobs:

COMMENT: DOD should consider the availability of applicants from the local labor market (Guam and Micronesia) before expanding its area of consideration to attract applicants from national wide.

RECOMMENDATION:

- Ensure DOD Recruitment Plan, Navy's Merit Promotion Plan (Appropriated and Non-Appropriated), policies and procedures define the Area of Consideration to be as small as Guam and Micronesia before expanding the area of search to include nation wide; and
- Commitment to restructure civilian positions and recruit at the entry level with known promotion opportunity. This recruitment strategy would allow jobs to be filled by local applicants; and
- Special consideration should be given and the right of "first refusal" to employees (appropriated and non-appropriated) when there is a change of charge on the contract; and

Table ES-5. Summary of Public Services Agency Key Staffing Requirements Page ix – Guam Alien Labor Processing & Certification Division (ALPCD) within the Guam Department of Labor (GDOL)

COMMENT: In addition to ALPCD, the Guam Employment Service (GES) will also be influenced by the growth in permit requests (applications to recruit for H-2B temporary foreign workers). One of the federal mandates is the 30-day labor testing. GES is responsible for this recruitment strategy. GES is 100% federally funded (Wagner-Peyser) and with the anticipated increase in population, we also anticipate an increase of the formula grant.

RECOMMENDATION:

 DEIS to include in Table ES-5: GES staffing requirements for peak year to show 5 for both areas: unconstrained and constrained; and 0 in Year 2020.
 All additional staffing requirements for ALPCD and GES will be recruited on a Limited Term Appointment (LTA). Thus, LTA employees will be terminated gradually as the workload decreases,

Socioeconomic Impact Assessment Study - page 3-20: 3.4.4.4 Guam Department of Labor:



17 February 2010

J-030-001 volume 9, Appendix F, page 147, table 4.3-3

is proposed that there will be 238 civilian military employees in 2010, and 522 in 2011, 2012 and 2013. That number jumps to 3,511 civilian military employees in 2014 and 3,743 every year from 2015 to 2020. It is projected that 50% of these jobs will be taken up by Okinawa transfers while 25% would be absorbed by military spouses (page 4-6) leaving only 25% available for ocal residents.

COMMENT: It is understood that civilian military employees who are going to be adversely impacted by the realignment of Marines from Okinawa to Guam will be afforded due process nd provided transition and placement assistance. This target group may include military pouses who will be transferring on a permanent change of duty station due to the transfer of unction.

RECOMMENDATION: It is recommended that transition and placement assistance services be nade available to U.S. citizens ONLY (civilian military employees and military spouses) for obs that are going to be created as a result of the realignment. Local nationals (foreign citizens) hould not be given special VISA status to work on Guam. Every effort should be made to fill ob vacancies with U.S. citizens from Okinawa who are going to be displaced and from the local abor market applicants.

Maria S. Connelley Director, Guam Department of Labor 414 West Soledad Avenue GCIC Building, Suite 400 Hagatna, Guam 96910



COMMENT:

The military expansion in the Mariana Islands poses many potential socio-economic changes that are best addressed with proper economic modeling to generate a range of data projections and produce forecasts for demographics, gross regional product, output (sales), wages and salaries, personnel income, employment and labor force to provide the basis for the analysis related to housing, retail, schools, and social services, and local government impacts.

The approach must quantitatively measure where the island is now in terms of human capital, forecast what is will look like incrementally over the next 10 years, identify what resources are available and what resources are lacking, and provide practical alternatives on how best to address these shortfalls.

The plan for labor growth will specific all supporting data and assumptions used in making the recommendations. While the plan can be phased to address resources availability, the complete plan needs to include the following elements:

A database of current available workers in terms of skills sets and trends that
have occurred in these skills sets over the past decade.

Enclosure 1

Guam and CNMI Military Relocation DEIS/OEIS

J-030-002

Thank you for your comment. Please see section 4.3 of the Socioeconomic Impact Assessment Study (Appendix F of the DEIS) for estimated impacts that would be associated with the proposed action.

Human Resources

1 The Guam Department of Labor (GDOL) provides support to meet the labor demands and impact for the Guam military buildup in preparing and collaborating with partners such as Guam Community College (GCC), the University of Guam (UOG) and Guam Trades Academy (GTA). The department also partners with the Guam Marianas Training Center (GMTC) in the medical ancillary professional certification program and with the Marianas IT (Information Technology) for the certification program. The plan for labor growth will also specify all supporting data and assumptions used in making recommendations, some of which are the outcome of the Regional Workforce Development Council (RWDC) 5-year workforce regional Strategic Plan. The result of this process represents a coherent and practical framework aligned through the three (3) overarching strategic plan focus areas which are:

- 1. Workforce Demand Initiatives
- 2. Workforce Supply Initiatives
- Comprehensive local/regional based training systems

Background

The anticipated military buildup on Guam has brought about tremendous challenges to address the needs for demand driven occupations and construction related projects

11

What does the Draft EIS state?

Figure ES-1 compares total labor force demand on Guam with and without the proposed action. At the 2014 peak, civilian labor force demand under the proposed action would be 75% higher than it would be without the project. By 2020, the difference declines to 12%. Section 4-3 of the SIAS describes in detail the projected distribution of increased jobs among on-and-off island labor sources.

Reference including Volume, Pages and more Volume 9, page v, vi

What do GovGuam Professionals Have to say?

Average and total gross income paid to Guam civilian workers would increase because of the proposed military relocation. The estimated average full-time equivalent (FTE) salary for Jobs related to the construction phase (\$33,500) and the military operational phase (\$40,000) would be considerably higher that the 2007 Guam average FTE salary of \$28,150. With a rapid increase in economic activity and a limited pool of on-Island labor, there would likely be competition for labor and thus upward pressure on wage rates. Total civilian labor force income is projected to increase by an estimated \$1.5 billion during the peak-year, according to the unconstrained scenario (Table ES-3).

Department: Guam Department of Labor

2 The Guam Department of Labor (GDOL) Alien Labor Processing and Certification Division (ALPCD) reported an increase in H-2B workers. The number of H-2B workers is now expected to increase due to new construction projects with the military buildup.

Background

The Guam Department of Labor (GDOL) and the Agency for Human Resources Development (AHRD) continues to implement workforce initiatives for training and education. It is anticipated that there will be an increase in on-site labor during the construction phases for military projects and labor will be from local and Micronesia region first and before expanding the recruitment area of consideration to nationwide workforce.

What does The Draft EIS State?

Agencies Affected by Increased Construction and Development.

Analysis was conducted for additional agencies that would be influenced not be a growth in population, but b a growth in permit requests for construction and development. These agencies included:

- Guam Department of Public Works
- Guam Department of Land Management
- Guam Environmental Protection Agency
- Guam Coastal Mgmt Program Within Bureau of Statistics and Plans
- Guam Power Authority
- Guam Waterworks Authority
- Guam Fire Department, Permitting Staff
- Historic Preservation Office within CDPR
- Guam Division of Environmental Health with CDPHSS
- Guam Allen Labor Processing and Certification Division within the Guam Department of Labor (GDOL)

Reference including Volume, Pages and more Volume 9, page vili, ix

Frelosure 1



What do GovGuam Professionals Have to say?

Analysis of the proposed action indicated the approximate number of construction and development permits that would be needed to complete the planned activities.

Department: Guam Department of Labor



LABOR

DIPATTMENTON HUMOTNAT MARIA S. CONNELLEY, Director - ERICA U. PEREZ, Deputy Director

RESPONSE - MILITARY BUILDUP TRAINING SIAS

 Does the Guam Dept. of Labor provide support to programs aimed at improving the supply of professional (non-construction) labor?

The Guam Department of Labor in its effort to meet its mission provides support to programs aimed at improving the supply of professional (non-construction) labor. It has contracted with a pool of training providers in the post education secondary education areas such as the Guam Community College and the University of Guam. The department also partners with the Guam Marianas Training Center in the Medical Ancillary Professional's Certification programs and with the Marianas IT supporting the IT Cabling Certification Program.

2. Does GDOL sponsor professional training programs at the University of Guam or adult education?

Yes, the Guam Department of Labor partners with and supports various career development programs at the University of Guam and the Guam Community College. The University of Guam provides professional certification programs as well as degreed programs. The Guam Community College offers Adult Education programs and provides professional certification as well as degreed programs. Additionally, the GDOL provides direct support for the court Interpreters Program with the Superior Court of Guam.

3. Has GDOL considered contributing funds to the Guam Contractors Association Trades Academy or any other professional development organization?

The Guam Department of Labor through various mandates (PL 18-48, PL 23-106, PL 29-002) indirectly provides funding to the Guam Community College for the purpose of job development programs in varied fields. Additionally, direct funding is provided to the Guam Contractors Association Trades Academy as a service provider for professional development in the construction industry as well as various programs in the community through non-profit organizations.

Are there any groups on Guam currently seeking Federal Funding for professional development programs?

Various entities such as the Guam Community College, the University of Guam, the Guam Trades Academy and the superior Court of Guam are currently seeking Federal funds to supplant, enhance and initiate training programs within their respective institution.

4. Has the US Department of Labor provided any Regional Innovation Grants (RIG)?

Currently, The Guam Department of Labor is in the process of completing the required documents for submittal to apply for the apportioned funds under the Regional Innovation Grant.

If so, for construction trades or for other professional development?

The application is a planning application, when approved; the implementation segment will include funding for construction and professional development.

P.O. Box 9970 Tamuning, Guam 96931-9970 · (671) 475-7046 · Fax: (671) 475-7045 · Ste 400 GCIC Bldg, Hagatna

Exclarure 1

Are there published materials we can access, or contact person we can interview, to get a sense of professional development programs on Guam, CNMI, FSM?

The contact persons for the respective entities are as follows:

The Guam Community College Mrs. Mary Okada, President Guam Community College P.O. Box 23069 GMF Barrigada, Guam 96921 (671) 735-5522 Okada.mary@guamcc.edu

Mr. Ray Somera. Guam Community College P.O. Box 23069 GMF Barrigada, Guam 96921 (671) 735-5522

Reneray.somera@guamcc.edu

The University of Guam Mr. Peter Barcinas University of Guam, Cooperative Extension Services ALF Bldg. Room 228 UOG Station Mangilao, Guam 96923 (671) 735-2055 pbarcinas@uguam.uog.edu

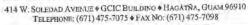
The Guam Marianas Training Center Mrs. Fe Ovales, President; 414 West Soledad Ave, Suite 501A, GCIC Bldg. Hagatna, Guam 96910

The GCA Trades Academy Mr. Herbert Johnston, Jr. President 718 North Marine Drive, Suite 203 Tamuning, Guam 96913

P.O. Box 9970 Tamuning, Guam 96931-9970 · (671) 475-7046 · Fax: (671) 475-7045 · Ste 400 GCIC Bldg, Hagatna



AGENCY FOR HUMAN RESOURCES DEVELOPMENT AHENSIAN INADILANTO YAN GUINAHA PARA TAOTAO





Request for Information

Labor Training on Guam for the Military Buildup SIAS

Requested by David Clark of Economic Planning Resources, subcontractor for John M. Knox and Associates who is identifying existing and potential workforce on Guam to accommodate future labor demand both with and without the military buildup. Specifically Mr. Clark reviewing training programs (existing and planned) on Guam in both the construction, and non-construction labor forces, and related programs, presenting the following questions:

The following represents existing AHRD Programs, it is suggested that planning include those programs and are being planned in the RIG, Demonstration Grant, CMTF, and at RWDC.

1. Does GDOL provide support to programs aimed at improving the supply of professional (non-construction) labor?

Yes, it has contracted with a pool of training providers

Guam Community College - Post Secondary

University of Guam - Post Secondary

Guam Marianas Training Center - Medical Ancillary Professional's Certification programs

Marianas IT - IT Cabling Certification Program

2. Does GDOL sponsor professional training programs at University of Guam or adult education?

Yes

University of Guam provides professional certification programs as well as degreed programs

Guam Community College offers adult education programs and provides professional certification programs as well as degreed programs

3. Has GDOL considered contributing funds to the Guam Contractors Association Trades Academy or any other professional development organizations?

Yes, funding is provided to GCA Trades Academy as a service provider for professional development in the construction industry

Are any groups on Guam currently seeking Federal funding for professional development programs?

Yes,



Guam Community College

University of Guam

Guam Trades Academy

4. Has the US Department of labor provided any Regional Innovation Grants (RIGs)?

No, Guam is has submitted an application, this was returned for edits, it will resubmit the application by December 31, 2008.

If so, for construction trades or for other professional development?

The application is a planning application, when approved; the implementation segment will include funding for construction and professional development

Are there published materials we can access, or contact person we can interview, to get a sense of professional development programs on Guam , CNMI, FAS?

Yes,

€tc

Guam Community College:

Mary Okada and Ray Somera

University of Guam:

Peter Barcinas

Guam Marinas Training Center:

Fe Ovales, President

Suite 601A, GCIC Building

414 West Soledad Avenue, Hagatna, Guam 96910

GCA Trades Academy:

Herbert J. Johnston, Jr., Education Director

Suite 203, East West Business Center

718 N. Marine Drive, Tamuning, Guam 96913

Review of Realignment Funding and Labor Requirements (GAO 351302/351319)

GAO is currently reviewing the military buildup on Guam due to the planned realignment of DOD personnel from Okinawa, Japan. Our emphasis is on evaluating the process used to develop and validate cost estimates for non-defense projects and programs ("outside the fence") and labor requirements that will affect or are related to the military buildup. We have met with Pacific Command, JGPO-Forward, Naval Facilities Engineering Command, the Office of Insular Affairs and Government of Guam officials, and have started developing our reports. However, we still need to collect additional information to confirm our understanding of the roles and responsibilities related to the efforts of the federal government. Below are questions we have for FRC that should help us with our reviews. Please provide a response via e-mail by August 6, 2009.

If you have any questions, please contact Richard Meeks at 202-512-8470 or meeksrw@gao.gov, or Josh Margraf at 206-287-4837 or margrafi@gao.gov.

- During discussions with officials from the Government of Guam's Civilian-Military Task Force, we were told that federal agencies budgets did not include the Government of Guam's its fiscal year 2010 budget request of \$238 million.
 - Can FRC comment on whether the Government of Guam's funding requests, as
 detailed in its fiscal year 2010 budget request, have been incorporated into FRC
 member agency budgets? If the Government of Guam's requests have not been
 included, why?
- 2. Many cost estimates developed by the Government of Guam for inclusion in its fiscal year 2010 budget request were developed "in-house" by Civilian-Military Task Force subcommittees. However, for non-defense items considered "long-lead" or critical/top-priority to the buildup by federal agencies, such as the port and roadways, Guam received more detailed information regarding buildup requirements and secured funding to hire consultants to develop the cost estimates.
 - Have FRC members provided assistance to the Government of Guam specifically with regard to the development of cost estimates for the fiscal year 2010 request?
 If so, what type of assistance have members provided?
 - What types of assistance have FRC members provided to the Government of Guam in developing cost estimates, such as identifying critical needs, reviewing and validating cost estimates, and/or funding for outside consultants?
 - What types of non-defense items/projects/programs have been designated as critical/top priority or long-lead by FRC members? To what extent will designating items/projects/programs as top priority or long-lead help the Government of Guam secure funding support from federal agencies?

Enclosure 1

- The Government of Guam has not released its fiscal year 2011 budget request, though many federal agencies may have already developed and prioritized their 2011 budgets.
 - Given these timeframes, what is the likelihood that Guam's fiscal year 2011 funding requests will be incorporated into agency budgets?
 - Have FRC members provided assistance to the Government of Guam specifically with regard to the development cost estimates for its fiscal year 2011 request?
- 4. The Government of Guam's Office of the Public Auditor noted in its 2008 annual report that there is a lack of understanding among Guam's government managers of the importance of internal controls, or checks and balances, such as monitoring, separation of duties, establishing a control environment, and ensuring accurate and timely recording of transactions.
 - What types of poor internal controls have FRC members experienced?
 - What impact impacts, if any, in your opinion would weak internal controls have on Guam's ability to secure funding support from federal agencies?
 - Have FRC members provided any assistance to the Government of Guam to help improve internal controls? Please provide examples.
- 5. The Guam Department of Labor, University of Guam, and Guam Community College have all been trying to assess potential labor needs following the construction phase of the buildup. However, information regarding the number and type of civilian positions appears to be preliminary until DOD releases its Environmental Impact Statement and Master Plan.
 - To what extent have FRC member agencies been assisting the Government of Guam to identify potential post-buildup/non-construction labor needs? What types of positions have been identified?
 - Guam Community College has established a training program for individuals to gain skills for construction and electrical careers in an effort to prepare them for the buildup using a Department of Labor Earmark Congressional Grant. To what extent has the Department of Labor's FRC representative been involved in this effort? What is the total amount of the earmark grant?
 - Guam Department of Labor has applied for a Regional Innovation Grant through the US Department of Labor. Is the FRC Department of Labor representative aware of the application, and if so, are you able to provide us information on its status?

: . . Ir

 What is FRC's opinion regarding the quality of the Government of Guam's cost estimates? What could be done to improve the estimates?

2

Civilian Military Task Force "EIS / OEIS Scoping" Page 53 of 61

LABOR

The military expansion in the Mariana Islands poses many potential socio-economic changes that are best addressed with proper economic modeling to generate a range of data projections and produce forecasts for demographics, gross regional product, output (sales), wages and salaries, personnel income, employment and labor force to provide the basis for the analysis related to housing, retail, schools, social services, and local government impacts.

The approach must quantitatively measure where the island is now in terms of human capital, forecast what it will look like incrementally over the next 10 years, identify what resources are available and what resources are lacking, and provide practical alternatives on how best to address these shortfalls.

The plan for labor growth will specify all supporting data and assumptions used in making the recommendations. While the plan can be phased to address resources availability, the complete plan needs to include the following elements:

- A database of current available workers in terms of skills sets and trends that have occurred in these skills sets over the past decade.
- A listing of all potential military projects with as much definition as practically possible over the next 15 years.
- A forecast of the demand for skilled labors by skills sets, including the primary construction industry, the secondary service industry (support service) and the tertiary maintenance and repair industry over the next 10 years.
- A projection of certain significant aspects of the future Guam economy and, in particular, changes to Guam's cost of living in terms of housing, food, utilities, taxes, etc.
- An evaluation of manpower and staffing needs to support the delivery of service at the One Stop Career Center and partners.

It is recognizes that the effectiveness of the strategic planning efforts is dependent upon the accuracy of the forecasts and on the ability of planning efforts to anticipate and adjust to the changes in the forecast. Preliminary indications of the scope, magnitude, and duration of the increase in military activity strongly suggest for an immediate need for a comprehensive economic plan with specific focus on human resources, training, employment, and employment support (i.e. transportation, housing, child care, etc.).

The situational context of Guam's labor market and the results of on-going military growth discussions pose concerns with regard to workforce sustainability and impact of Alien

Civilian Military Task Force "EIS / OEIS Scoping" Page 54 of 61

Labor Force (H2B) to the local and regional community. The recent U.S. Congress approval to remove the restriction of the H2B on military related construction poses several challenges for an island economy and all workforce related issues and the ancillary social economic issues.

Impact of Service and Technical Capacity at Guam Department of Labor

Compliance and Enforcement

 Needs for Alien Labor Processing & Certification Division (ALPCD) enforcement and compliance - considering all budget categories (personnel, equipment, supplies, rental, capital outlay, etc.)

o Funding associated with H-2B compliance and fraud/abuse prevention for

ALPCD

Technology and Systems

Personnel and Administrative Services

 Needs of GDOL to support an increased department workload as a result of the increased H-2B population to include:

Labor market testing within the Guam Employment Service (Wagner Peyser

Support for Workman's Compensation & OSHA due to increase in construction activity and the injuries associated with this type of work

Support for Wage & Hour division to prevent wage abuses

J-030-003

ased upon the work that has been undertaken by the Labor Subcommittee, they have dentified the following to be included in the Guam military build-up EIS/OEIS:

- · An assessment and projection of wages by skills sets as well as other job desirability factors, including the potential for upward mobility, and a projection by age cohort from both Guam, Northern Marianas, and insular areas in the Pacific jurisdiction to measure potential labor supply alternatives, including attracting those considered non-employed away from continued dependence on public assistance programs is needed in the EIS.
- Identification and assessment of the sustained job increase after construction, including the sustained job increases in the military and public/private sectors is required to insure the Island is not negatively impacted by meeting immediate short term needs and failing to provide for sustained requirements that could have negative implications for Guam's private sector and its military sector.
- · A listing of training requirements to take the current workforce skill level to meet as many of the skill levels anticipated over the next 15 years. Current training resources need to be evaluated for its current effectiveness in meeting present and anticipated training needs as well as the capacity to provide specialized training to meet anticipated needs. The evaluation should include public sector providers such as the Guam Public School System (GPSS), Guam Community

Guam and CNMI Military Relocation DEIS/OEIS

J-030-003

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process. This information becomes part of the Final EIS and is evaluated when DoD prepares the Final EIS and issues a Record of Decision at the end of the National Environmental Policy Act (NEPA) process.

Civilian Military Task Force "EIS / OEIS Scoping" Page 55 of 61

J-030-003

College (GSS), University of Guam (UCG), as well as private, non-profit training providers such as the Guam Contractors Association Trades Academy (GCATA), Guam Hotel and Restaurant Association (GHRA), and other civic and private for-profit training providers.

- The EIS must address the impact upon the availability of teachers and other specialty services the DODEA system will have upon Guam's public and private school systems. Inclusive within this assessment is not only the additional demand that will be created by an expanded DODEA system but also those military dependents that would be able to provide services to the civilian school systems.
- The EIS should provide a monetary quantification of the cost of training to be incurred by the civilian sector and the Government of Guam to meet DoD's labor requirements and an evaluation of all potential funding sources that may be available to address the training costs.
- An evaluation of potential workforce availability, including sources of labor, current and anticipated market for industrial skilled labors, and the barriers for attracting, recruiting, and retaining these labor forces over the next 10 years.
- The EIS should address the impact the inclusion of military dependents will have upon federal dollars and training slots that would otherwise be available for Guam's residents who are displaced workers as military dependents also qualify under federal displaced worker programs. The EIS should identify mechanisms to mitigate any negative impacts.





Jessica Cate <jcate.gdol@gmail.com>

Final - Labor Subcommittee Report for EIS

1 message

Maria C <connent@ite.net>

Wed, May 23, 2007 at 8:16 PM

Reply-To: connent@ite.net

To: Anthony Anderson <daryla2000@yahoo.com>, Cathy Cruz <catcruz40@yahoo.com>, David Dell'Isola oddell@guam.net>, Dorothy Gutierrez <dotg_52@yahoo.com>, Elaine Aguon <Elainem_aguon@yahoo.com>, Erica Perez <ericauperez@yahoo.com>, Francis Susuico <sweeko0411@yahoo.com>, Gary Hiles
blshiles@ite.net>, George San Nicolas <geovsn@yahoo.com>, Greg Massey <alpod-greg@holmail.com>, Helen Mafnas helen_mafnas@yahoo.com, Jaime Rodriguez <xiosormd@guam.net>, Jessica Cate <|cate.gdol@gmail.com>, Joe San Agustin <joesanag ustin@gmail.com>, Lani Baza <laniebaza@yahoo.com>, Larry Gamboa <lgamboa.ahrd@yahoo.com>; Roman Quinata <guwagehr@ite.net>, Ruth Leon Guerrero <onestopcareer@gmail.com>, Vera Topasna <vtopasna@gmail.com>

Good Morning

Attaching a copy of what was submitted to the Civilian Military Task Force and Joint Guam Program Office on the impact of the global repositioning and military growth.

Each of the 11 subcommittees had a submit an environmental impact statement, etc. The Labor Technical team prepared the attached from discussions and inputs from private and public sector representatives, etc.

Have a great morning! ...later ... maria

No virus found in this outgoing message. Checked by AVG Free Edition. Version: 7.5.467 / Virus Database: 269,7.6/814 - Release Date: 5/21/2007 2:01 PM

Final - Labor Subcommittee Report for ElS.doc 142K





LABOR

DIPĂTTMENTON HUMOTNĂT MARIA S. CONNELLEY, Director * ERICA H. UNPINGCO, Deputy Director

FELIX P. CAMACHO
GOVERNOT
MICHAEL W. CRUZ, M.D.
Lieutenant Governor

GUAM DEPARTMENT OF LABOR/AGENCY FOR HUMAN RESOURCES DEVELOPMENT

The Guam Department of Labor is responsible for promoting, developing and improving the welfare of wage earners on Guam. The department provides training and education, job placement assistance, outreach and consultation to increase the awareness of employment practices, senior employment programs and alien labor certification. The department also enforces the prevailing wage schedule, Fair Labor Standards Act, Employment Service Law, Occupational Safety and Health standards and administers workers compensation. Additionally it oversees labor market and occupational information systems as well as provides statistical information regarding Guam's manpower and labor situation. It houses and supervises the Agency for Human Resources Development and the AmeriCorps program.

Labor Sub-Committee:

As a Sub-committee of the Civilian Military Taskforce (CMTF), the group has adopted the following guiding principles as the island begins its transformation process for growth:

Vision Statement: To provide leadership, strategic guidance, and resources that are valuable to the Workforce Investment System.

Mission Statement: To provide program services to improve the quality of life of Guam's citizens by maximizing their potential for employment in a competitive economy.

SITUATION:

One of the most critical challenges facing our island is the need for additional labor. Limitations of the labor pool and the cost to develop specialized skills to meet the needs of the impending growth, have prompted the workgroup to adopt several strategies to address the labor issues. Within that context the Labor Sub-committee continue to meet with civilian, military and federal officials to discuss options for developing an analysis and provide a draft report.

Enclosure 1

 CMTF Labor Subcommittee Report for EIS Page 2 of 4

The requirement for a skilled labor force in construction-related occupations is estimated to be from 10,000 (Joint Guam Program Office) to 20,000 (Guam Contractors Association). Other in-house estimates reach as high as 25,000 workers, which looks closer at all H2B job categories for both military and non-military. After a detailed description by the Director of the Guam Department of Labor (GDOL), Guam's current labor workforce, as well as Guam's projected labor workforce within the next decade, will not meet the demand for workers during the construction phase of the military build-up. At best, Guam can probably meet only 10%-15% of this demand. These factors are of paramount concern of local, federal and military officials.

STRATEGIC APPROACH - HUMAN CAPITAL:

In February 2007, the Labor subcommittee created a technical team consisting of private sector, education, and local government representatives. The technical team is tasked to prepare a Guam 2008-2014 socio-economic plan that quantifies the anticipated growth of Guam's economy over the next 10 years. The approach is to quantitatively measure where the island is now in terms of human capital, forecast what it will look like incrementally over the next 10 years, identify what resources are available and what resources are lacking, and provide practical alternatives on how best to address these shortfalls. The opportunity for smart growth (or right growth) requires that we establish or develop new initiatives capitalizing on community strengths. To do this we recommend to establish emphasis areas specific to Military/Community Impact Emphasis Areas.

The situational context of Guam's labor market and the results of on-going military growth discussions pose concerns for the group and leadership. Two important issues common in these discussions include but not limited to the following: Workforce Sustainability and impact of Alien Labor Force (H2B) to the local and regional community. The recent U.S. Congress approval to remove the restriction of the H2B on military related construction poses several challenges for an island economy and all workforce related issues and the ancillary social economic issues.

I. IMPACT OF SERVICE AND TECHNICAL CAPACITY AT GUAM DEPARTMENT OF LABOR (GDOL)

- · Compliance and Enforcement
 - Needs for Alien Labor Processing & Certification Division (ALPCD) enforcement and compliance – considering all budget categories (personnel, equipment, supplies, rental, capital outlay, etc.)
 - Funding associated with H-2B compliance and fraud/abuse prevention for ALPCD
 - o Technology and Systems
 - o Personnel and Administrative Services
 - o Needs of GDOL to support an increased department workload as a result of the increased H-2B population to include:

P.O. Box 9970 Tamuning, Guam 96931-9970 · (671) 475-7046 - Fax: (671) 475-7045 414 W. Soledad Avenue, GCIC Building * Hagatifa, Guam 96910

Exclosure I

CMTF Labor Subcommittee Report for EIS Page 3 of 4

- · Labor market testing within the Guam Employment Service (Wagner Peyser Act)
- · Support for Workman's Compensation & OSHA due to increase in construction activity and the injuries associated with this type of work
- Support for Wage & Hour division to prevent wage abuses
- · Socio-Economic spill over effect
 - o Health
 - " Emergency Care
 - Immunization Compliance
 - o Family Well-Being
 - o Housing/Barracks
 - o Infrastructure
 - · Power
 - Transportation
 - Water
- Labor Training
 - o Post-Construction Workforce Sustainability
 - Secondary job demands
 - o Operation/maintenance-workforce needs for post construction phase (Sustainability)
 - o Training needs for workforce demand and sustaining occupations after construction build-up.
 - o Determine training programs needed to sustain labor during and after construction
 - Secondary market occupations will be beyond the construction demand.
 - o Funding for training Programs
 - o Personnel
 - o All items associated with increased demand of programs
 - o Data gathering and assessments
 - o Funding levels for training

II. CURRENT DATA AND FUTURE DATA NEEDS

- Workforce Evaluation and Analysis
 - o Level I: Workforce Planning
 - 1. Baseline Data and Programs
 - Workforce Database
 - · Current Labor Capacity
 - Current listing of training requirements and providers.
 - · List of all current and potential military projects over the next 15 years.
 - · Econometrics Forecasting
 - · Models (Population, Regional Economy, Social)

P.O. Box 9970 Tamuning, Guam 96931-9970 · (671) 475-7046 · Fax: (671) 475-7045 414 W. Soledad Avenue, GCIC Building * Hagatha, Guam 96910

CMIF Labor Subcommittee
Report for EIS
Page 4 of 4

- Current training resources need to be evaluated for its current effectiveness in meeting present and anticipated training needs as well as the capacity to provide specialized training to meet anticipated needs.
- Budget Cost associated with all aspects of impact related to all training and an evaluation of all potential funding sources.
- 3. Forecasting
 - A forecast of the demand for skilled labors by skills sets, including the
 primary construction industry, the secondary service industry (support
 service) and the tertiary maintenance and repair industry over the next
 10 years.
 - Forecast current workforce skill level to meet as many of the skill levels anticipated over the next 10 years.
- 4. Workforce Planning: 6- Forces Diagram (Strategic Planning)
 - · Project impact:
 - o wages by skills sets;
 - o job desirability factors;
 - o potential for upward mobility;
 - measure potential labor supply by projecting age cohort local and regional;
 - o measure potential labor supply coming from:
 - Underemployed
 - Non-employed
 - · Entitlement programs

DEVEL II: WORKFORCE & ECONOMIC ASSETS AND LEAKAGES

- 1. Survey Industry Needs for Hiring
- 2. Determine Capacity Support Needs
- 3. Survey Training Needs
 - Internal Training, Staffing Development
 - External Service Providers (apprentice providers and future providers)
- 4. Assess and Evaluate impact of quality and standard of living.

LEVEL III: SYSTEMS AND STRUCTURES

- Performance Audit (model after One-Stop Career Center performance audit)
- Impact of Governance Structures & Relationships (cross planning assurances) Apply Collaboration Framework.

C LEVEL IV: EXTERNAL AND REGIONAL ISSUES

Other issues related to growth are wages, increase in construction trades training. The group will continue to address the labor impact through several workforce strategies.

P.O. Box 9970 Tamuning, Guam. 95931-9970 · (671) 475-7046 · Fax; (671) 475-7045 414 W. Soledad Avenuc, GCIC Building * Hagatfia, Guam 96910

Enclosure 1





J-030-004

Thank you for your comment. On-island residents would be hired if they are qualified for the positions during the construction and operations periods. Because the number of qualified on-island residents would likely be exhausted, especially in the anticipated years of construction (2010 through 2016), thousands of H2B visa foreign workers are anticipated. See the detailed discussion on workers in Section 4.3 of the SIAS.

Your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-030-005

Thank you for your comment. Expected impacts to GDOL, ALPCD, workload and employment requirements are presented in Section 4.4 of the Socioeconomic Impact Assessment Study (Appendix F of the DEIS).

Your recommendation has been taken under consideration for inclusion in the FEIS.

J-030-006

Thank you for your comment. Please see the Socioeconomic Impact Assessment Study (Appendix F of the DEIS) for the expected socioeconomic impacts related to the proposed action.

Your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

O14 is preferred year to physically relocate Marines and heir families; the buildup is projected to take at least 5 years J-030-006 ner ramines; toe allusing is projection to science at least 5 year or get infrastructure in place and the construction (housing) needed for this development; only limited amount of sersonnel to arrive in Guam in 2010. Development of system to track accurate population is dire when it comes to population count of those foreign H2B workers who have decided to make Guam their home; GovGuam agencies mus keep diligent records instead of confusing documents. he DOD must publish demographic information to be made available to the general public, especially on the increase of the population of Guam even after the 2010 Census is taken. 4 12/31/09 outation impact of an increase of 79,178 more people coming to live on ucluded in SSS, New population sources are categorically H2 Guam is severely intense for short 5 yr period. It should be lessened or the lockers/Micronesians/military and dependents. Cycle of life amount of time in terms of years for this type of demographics should be is a measurement of population growth with young people having families. Population changes and trends on Guam started taking place since 1920 to 2000, including household extended to 20 years with incremental addition, but certainly not 5 years. characteristics in the Northern/Central/Southern J-030-007 The DOD must ensure that the impact from this buildup does not disrupt the livelihood of the people who call Guam their home and that resources are iffecting major categories of socioeconomic resources, economic activity, population, and public services; shock and imade readily available in times of emergency; resources for the very basic worth a milke the Bib boom, Guarn Itself will be transformed south a milke the Bib boom, Guarn Itself will be transformed south a milke the Bib boom, Guarn Itself will be transformed south and south a milke the Bib boom, Guarn Itself will be transformed south and the Bib boom, Guarn Itself will be transformed south and protection of the south and south and south a milkelf will be transformed south and south a milkelf will be transformed south and south a milkelf will be transformed south and south a milkelf will be transformed south and south a milkelf will be transformed south and south a milkelf will be transformed south and south a milkelf will be transformed south and south a milkelf will be transformed south a milkelf will be transform 6 12/31/0 is of land are grave issues for most Chamorro Chamorro culture, language, heritage and nature of Guarn. Grants, when applied for, must be given priority for the indigenous preservation of the Chamorro culture, heritage, artifacts, sacred grounds (naftan ma'nai'nata) and

eaching of the Chamorro language.



Guam and CNMI Military Relocation DEIS/OEIS

J-030-007

Thank you for your comment. Please see Volume 7, Chapter 3 for a summary of socioeconomic impacts.

Your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

As documented in this EIS, DoD acknowledges the existing substandard conditions of key public infrastructure systems and social services on Guam and the interest to have DoD fund improvements to these systems and services. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that could benefit the people of Guam.

DBS REVIEW COMMENTS SHEET There is no guarantee the unemployment rate would decline because foreign and off-island hire take on jobs the locals did the assessment and projection of wages and skills, including other job market J-030-008 ot fill. Economic activity and related aspects discussed such factors to identify sustainable demand driven jobs and occupations needed as labor supply, water supply, housing, construction materials before, during and port Guam Buildup phases. For Pre-buildup period, revalled Buy, commerce, unapportation (consistent) and government processing. Types of jobs available are not in distinction of the processing. Types of jobs available are not in emand driven industries and are low-paying minimum workers as barracks and living facilities. wage. The same economic indicators are used: employm income, housing, Government revenues and Gross Island roduct (GIP). Economic characteristics show that GovGua is the major employer on Guarr; furthermore, the amount of people employed by GovGuarn is high compared to the U.S. rerall. Peak impact years are stated as years that instruction and operational phases are scheduled to reriap. In the future, it is predicted that more we cupy the workforce ablic services will be heavily impacted as seen already DoD must be a financial partner with Guam Power Authority and Guam Water J-030-009 Works Authority and other public services departments and agencies of the

Farlacure 2

J-030-008

Thank you for your comment. As you note, projected impacts on the unemployment rate are not guaranteed. It should be noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received, provide information to the decision makers on the anticipated impacts of the proposed action. It is also noted that the Socioeconomic Impact Assessment Study (SIAS) discussed an unconstrained (maximal) scenario and a constrained scenario. The two scenarios represent a range of impacts that could occur should the proposed project be implemented under the current schedule. The SIAS is provided as Appendix F, Volume 9 of the DEIS.

Your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-030-009

Thank you for your comment.

The Guam Waterworks Authority (GWA) and DoD are cooperatively working together to plan for the expected increase in population on Guam. DoD has agreed to drill the 22 new DoD water supply wells early, and provide this water to GWA, along with excess water from DoD's Fena Reservoir and other current sources, to meet the near-term increase in water demand that is expected to occur off-base during the construction phase of the buildup. During this time, GWA would begin to drill new wells of their own and make improvements to their system to meet the long-term water needs of off-base communities. Concrete plans to resolve the projected shortfalls in the GWA water system must be in place prior to commencement of the DoD buildup. DoD and GWA have worked on these solutions and they have been included in the final EIS. DoD is an advocate for grants and low cost loans that GWA may be

AS - Guam Department of Labor: The military expansion in The plan for labor growth will specify all supporting data and assumptions used J-030-010 the Mariana Islands poses many potential socio-economic in making the recommendations. While the plan can be phased to address deling to generate a range of lata projections and produce forecasts for demographics. ass regional product, output - A database of current available workers in terms of skills sets and trends that les), wages and salaries, personnel income, employment have occurred in these skills sets over the past decade. and labor force to provide the pasis for the analysis related to housing, retail, schools, social - A listing of all potential military projects with as much definition as practically ervices, and local The approach must quantitatively measure where the island A forecast of the demand for skilled labors by skills sets, including the primary now in terms of human now in terms of human construction industry, the secondary service industry (support so pital, forecast what it will look like incrementally over the tertiary maintenance and repair industry over the next 10 years. ext 10 years, identify what esources are available and what resources are facking, and —A projection of certain significant aspects of the future Guam economy and, in particular, changes to Guarn's cost of living in terms of housing, food, utilities strifalls. Connelley, Maria

Indones 7

seeking to accelerate repair of their water systems.

Subsequent to issuing the DEIS, DoD and Guam Waterworks Authority (GWA) reached agreement in principle to establish a private entity (PE). This PE would obtain a loan arranged by DoD to upgrade the North District Wastewater Treatment Plant (NDWWTP). The PE would also operate the plant and pay back the loan with user fees. The DoD would pay user fees established by a customer service agreement with GWA that would enable the PE to repay the loan. Future upgrades to add secondary treatment to the NDWWTP, if required, would be funded by the users based on their percentage of demand. The DoD would be one of the highest users and would bear their fair share of that upgrade. This has been stated in the final EIS.

Subsequent to publishing the DEIS, DoD and Guam Power Authority (GPA) have agreed in principle to establish a private entity under contract with GPA that would obtain a DoD arranged loan to recondition the required combustion turbines currently owned by GPA and the transmission and distribution system. The customer service agreement between DoD and GPA would be revised to reflect fees that would pay for this reconditioning and allow the private entity to repay the loans. This agreement will be discussed in the final EIS.

DoD is legally limited in how it can spend its budget. Those limitations restrict budget expenditures on things required for their personnel and facilities. DoD would be a customer of the new landfill and would pay tipping fees. Guam needs to arrange the tipping fees such that they will sustain the landfill for all aspects, including operations, maintenance, closure, financing for future expansion or replacement, etc.

From the above discussions of the four utilities, it is apparent that DoD is attempting to partner with the Guam utilities as much as their legal restraints allow.





J-030-010

Thank you for your comment. Public comments on the DEIS are an important part of the decision-making process. This information becomes part of the FEIS and is evaluated when DoD prepares the FEIS and issues a Record of Decision at the end of the NEPA process.

Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-030-011

Thank you for your comment. Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

DEIS

Date Visit Otos Pg Une Tel, Fg	Comment	Recommendation (Mitigation) Proposed Solution	Communitor (last Agency) name) Org	
		Based upon the work that has been undertaken by the Labor Subcommittee, they have identified the following to be included in the Guam military build-up EB/ODS:		
		An assessment and projection of wages by skills sets as well as other job desirability factors, including the potential for upward mobility, and a		
		projection by age cohort from both Guam, Northern Marianas, and insular areas in the Pacific		
		jurisdiction to measure potential labor supply alternatives, including attracting those considered non-employed away from continued dependence on public assistance programs is needed in the FFS.		
		dentification and assessment of the sustained job increase after construction, including the sustained job increases in the military and public/private sectors is		
		required to insure the island is not negatively impacted by meeting immediate short term needs and falling to provide for sustained requirements that could		
		have negative implications for Guam's private sector and its military sector. A listing of training requirements to take the current workforce skill level to		
		most as many of the skill levels anticipated over the next 15 years. Current train		



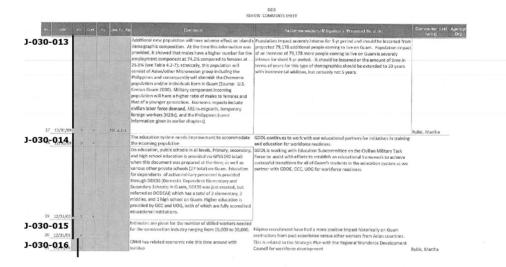


J-030-012

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process. This information becomes part of the Final EIS and is evaluated when DoD prepares the Final EIS and issues a Record of Decision at the end of the National Environmental Policy Act (NEPA) process.

J-030-013

Thank you for your comment. It should be noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action. It is also noted that the Socioeconomic Impact Assessment Study (SIAS) discussed an unconstrained (maximal) scenario and a constrained scenario. The two scenarios represent a range of impacts that could occur should the proposed project be implemented under the current schedule. The SIAS is provided as Appendix F, Volume 9 of the DEIS.



Tr. S. . . 7

J-030-014

Thank you for your comment. The impacts on the Guam public school system are discussed in subsection 4.4.2, page 4-42 of the SIAS. Table 4.4-4 in the SIAS provides the potential increase (maximal) of student population in the Guam Public School System from 2010 to 2020. Providing a brief summary, at the peak population year (2014), a total of 7,937 students could attend the public school system; by 2017, when the operational (long-term) conditions occur, the students generated could be 909. This is based on the direct and indirect (induced) populations resulting from the military relocation. The military dependents would be educated in the DoD school system and should not affect the public school system. Money generated through taxes from the increased population and federal payments to schools (based on student populations) should provide revenue to fund resources for the public schools.

Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-030-015

Thank you for your comment. Please see Section 4.3.1.1 of the Socioeconomic Impact Assessment Study (Appendix F of the EIS) for the expected impacts on Civilian Labor Force Demand and Section 4.3.1.2 for Probable Sources of Labor Supply (expected place of origin for construction workers).

J-030-016

Thank you for your comment. Please see Volume 3, Chapter 16, for socioeconomic impacts related to Marine Corps training on Tinian.

Recommendation (Mittgation / Proposed So

W. 1000	Yell Cleat Pa Line To F		Recommendation / Mitigation / Proposed Solution	name) Org	
-030-017		SIAS (Socioeconomic Impact Assessment Study) to support socioeconomics of the military relocation in the DIS. SIAS will provide foundation for Fiscal Impact as well.	The EIS must address the impact upon the availability of teachers and other specialty services the DODEA system will have upon Guam's public and private school systems. Inclusive within this assessment is not only the additional demand that will be created by an expanded DODEA system but also those	The second second second second	
			military dependents that would be able to provide services to the civilian school		
			systems. The ES should provide a monetary quantification of the cost of training to be locured by the civilian sector and the Government of Guant to meet Doc's labor requirements and an evaluation of all potential funding sources that may be avoidable to address the training costs. An evaluation of petential overdiffer exists. An evaluation of petential overdiffer exists current and anticipated market for Industrial Eddle labors, and the barriers for attracting, recruiting, and retaining these labor forces over the next 50 years. The ES should address the impact the inclusion of eritilizing dependents will have upon federal dollars and training title that would extensive the evaluation.		
			for Guarn's residents who are displaced workers as military dependents also que		
030-018	OptoL9 B SIAS	Preliminary dates given for DEIS 45-day review was April 2009 DEIS released November 20, 2009, seven months later		Rubic, Martha	
23 1/13/1	0 Vol.9 B SIAS				
24 1/13/1	O Vol.9 B SIAS	Record of Decision also set at January 2010 but won't be published till July or August 2010 Final SIAS also was supposed to be released in Sept/Oct 2009			
25 1/13/1	0 Vol.9 8 SIAS	but not yet done			

Enlare 1

J-030-017

Thank you for your comment. Please see Section 4.4.1 of the Socioeconomic Impact Assessment Study (SIAS), which is Appendix F, Volume 9 of the EIS for information on the expected impacts the proposed action would have on the government of Guam's (agencies) staffing requirements. The analysis in the SIAS includes both direct and indirect impacts including those who move to Guam for work related to the proposed action. Another study, funded by DoD's Office of Economic Adjustment, is underway. This is the Fiscal Impact Assessment that identifies the needs of the government of Guam and where the money to fund the needs could come from.

Another study, funded by DoD, the Fiscal Impact Assessment Study will provide more detail on the fiscal situation of GovGuam in terms of government revenues and expenditures as related to the proposed action.

J-030-018

Thank you for your comment.

DEIS

No	Diffe	Vo. Ch	ed the Line Teld For	Commant	Recommendation / Mitigetion / Proposed Solution	Commenter (last Agency)
030-	019			Gary Kinvabara spoke at Worldonce Sammit/12th Micronesian Chief Executives Summit: Just recently held in Guam, Dec 2009 sponsored by GOOL	The plan for lubor growth will specify all supporting data and assumptions used in making the recommendations. Some of these recommendations are the outcome of the Riginal Windricher Development Council (RWDC) Strategic Plan for 2010-2013 as outlined at the 12th Workforce Summit held November. 30-December 2, 2009.	,
		ı			30-December 2, 2009. The result of this process represents a coherent and practical framework.	
					aligned through the three overarching strategic Plan focus areas:	
		ı			Workforce Demand Initiatives:	
		ı			2. Workforce Supply Initiatives;	
26	1/13/10	Vul.9 B	SAD		 Comprehensive local/regional based training systems 	
10	47.1.920			Federal Regional Council (FRC) held several meetings		
27	1/13/10	Vol.9 B	SIAS	regarding Guam Buildup	GDOL Director attended these meetings	
				Notes indicate that 'data was suspicious'; manner in which it		
28	1/13/10	Vol.9 B		was collected? Data not accurate?	GDOL must be provided with funding for research and data collection	
29	10100	Vol.9 B		Wealth of information available in summaries of meetings held before and during DEIS phases of Buildup	GDOL has been planning for this buildup	
4.0	A) 20/ M	100.5 0		Other Federal departments/agencies involved in data analysis		
30	1/13/10	Vol.9 B		for EIS document		
	-			SDOL NOT in Appx. Clist of questions for GovGuam.	DoD should include GDOL in this particular or any other forthcoming DEIS	
31	1/13/10	Vol.9 B			discussion. GDOL should be included in analysis and participation	
						Rubic, Martha
		ı			the approach must quantitatively measure where the Island is now in terms of	
		ı			human capital, and forecast what it will look like incrementally by 2020; to	
		ı			identify what resources are available as well as what resources are lacking, and	
		ı			provide practical alternatives on how best to address these shortfalls in workforce development.	
32		ı			workers development.	
					It is recognized that the effectiveness of the strategic planning efforts is	
030-	020	ı			dependent upon the accuracy of the forecasts and on the ability of planning	
		ı			efforts to anticipate and adjust to the changes in the forecast.	
		ı			Preliminary indications of the scope, magnitude, and duration of the military	
		ı			buildup strangly suggest for an immediate need for a comprehensive economic	
		ı			plan with specific focus on human resources, training, employment, and	
		I			employment support (i.e. transportation, housing, child care, etc.).	
33 1	/22/10	•				



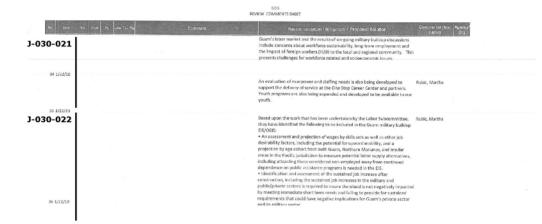
J-030-019

Thank you for your comments. Our data will be checked per your comments and the appropriate edits made in the FEIS.

It is noted that the EIS process provides information on environmental impacts (this includes the human environment); however, there is a limit to the specific details of the impacts because the information used is based on the continuation of existing trends and behaviors. While it is not an exact science, the EIS process along with the comments received provide information to the decision makers on the anticipated impacts of the proposed action. It is also noted that the Socioeconomic Impact Assessment Study (SIAS) discussed an unconstrained (maximal) scenario and a constrained scenario. The two scenarios represent a range of impacts that could occur should the proposed project be implemented under the current schedule. The SIAS is provided as Appendix F, Volume 9 of the DEIS.

Please see Section 4.4.1 of the Socioeconomic Impact Assessment Study (SIAS), which is Appendix F, Volume 9 of the DEIS for information on the expected impacts the proposed action would have on the government of Guam's (agencies) staffing requirements. The analysis in the SIAS includes both direct and indirect impacts including those who move to Guam for work related to the proposed action. Another study, funded by DoD's Office of Economic Adjustment is underway, this is the Fiscal Impact Assessment that identifies the needs of the government of Guam and where the money to fund the needs could come from.

Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.



J-030-020

Thank you for your comment. Your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-030-021

Thank you for your comment. Projections of Labor Force Demand extend to the year 2020; at 2020 the proposed action is considered to be in a 'steady state' in which the impacts would not foreseeably change. Employment impacts from the proposed action, at that point in time, are considered long-term as they extend indefinitely into the future.

Your recommended mitigation measure has been taken under consideration. Expanded mitigation discussion is available in the FEIS.

J-030-022

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process. This information becomes part of the Final EIS and is evaluated when DoD prepares the Final EIS and issues a Record of Decision at the end of the National Environmental Policy Act (NEPA) process.

DEIS ...
REVIEW COMMONTS SHEET Recommendation | Mitagram | Proposed Scharan

* A listing of training requirements to take the current workforce still to the
next level to meet as many of the skill levels antiopated well into 2025. Current J-030-022 training resources need to be evaluated for its corrent effectiveness in meeting present and articipated future training needs as well as the capacity to provide specialized training to meet anticipated future training needs as well as the capacity to provide specialized training to meet anticipated needs. The evaluation should include partners in the public sector providers such as the Guam Public School System (GPSS), Guam Community College (GSS), University of Guam (UOS), as well as private, non-profit training providers such as the Guam Contractors Association Trades Academy (GCATA). GOVERN, Court has the usual contractors viscosciation frames Academy (GOATA), Court Hotel and Restaurant Association (GHRA), and other civic and private for-profit training providers.

This is the concept of the power of e3: education, employment and economic development +1, ethics. J-030-023 Figure ES-1 compares total labor force demand on Guarn with Average and total gross income paid to Guarn wirdlin workers would increase and will be the proposed action. At the 2014 peaks, dyllam because of the proposed action because of the proposed action because of the proposed action because of the proposed action because of the proposed action because of the proposed action because the proposed action would be 2014 peaks (2014). The proposed action would be 2014 peaks (2014) and the proposed action would be 2014 peaks (2014) and the proposed action with the proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action with the proposed action will be proposed action will be proposed action with the proposed action will be proposed action will be proposed action will be proposed action with the proposed action will be proposed action wil for labor and thus upward pressure on wage rates. Total civilian labor force income is projected to increase by an estimated \$1.5 billion during the peak-year, according to the unconstrained scenario (Table ES-3). Reference including Volume, Pages and more Volume 9, page v, vi J-030-024 The Guam Department of Labor (GDOL) Alien Labor Background: The Guam Department of Labor (GDOL) and the Agency for Rubic, Martha The Guan Oppartment of Liabor (GUDL) Alone Labor American grant Certification (Notice) (AMECT) reported in Increase in H-23 workers. The number of H-142 workers is now expected to increase the Increase in H-23 workers. The number of H-142 workers is now expected to increase the increase in expected in the second of the Increase in the H-142 workers is now expected to increase the increase in expected in the H-142 workers is now in the Increase in expected in the H-142 workers in the Increase in expected in the H-142 workers in the Increase in expected in the American Increase in H-142 workers in the Increase in expected in the Increase in expected in the Increase in the Increase in expected in the Increase in the Increase in the Increase in the Increase in the Increase in the Increase in the Increase in the Increase in the Increase in the Increase in the Increase in the Increase in the Increase in the Increase in Increase Increase in Increase in Increase in Increase in Increase in 9 vi vi Tbl. Es-3

Fuel 2

Guam and CNMI Military Relocation DEIS/OEIS

J-030-023

Thank you for your comment.

J-030-024

Thank you for your comment. As you note, there is expected to be an increase in the number of H2B workers on Guam as a result of the proposed actions.

DEIS

No. Essa Vol. o	that the Lond Tell Fig. Dominant	Recommendation / Mitigation / Proposed Solution	Commenter (Last Agency) name) Org	
J-030-024	What does The Draft EIS State? Agencies Affected by Increased Construction and Development	Analysis of the proposed action indicated the approximate number of construction and development permits that would be needed to complete the planned activities.	Rubic, Martha	
, 1	Analysis was conducted for additional agenties that would be influenced not be a growth in population, but by a growth in permit requests for construction and development. These agencies included: - Sum Objectivement of Land Management. - Claim Computement of Land Management. - Claim Conferencement Protection Agency. - Claim Conferencement Protection Agency. - Claim Conferencement Protection Agency.			
	Coam Power Authority Gourn Waterwards Authority Gourn File Objectiment, Permitting Staff Ristoric Preservation Office which GIPP Gourn Division of Informational Intel® with GIPPISS Gourn Alien Labor Processing and Certification Office which within the Gipping Systems of California (COCI) Reference including Volume, Pages and renore			
J-030-025	With the anticipated construction projects in the federal, local government and private sectors associated with the importing Marines relocation, it is my opinion that mappower and equipment resources media to be immediately managed to the control of the immediately managed to the control of the control of the immediately managed to the control of the control of the immediately managed to the control of the control of the control of the immediately managed to the control of	agreements with the US Department of Labor who provides as Allor Contilication grant through Wagner Physics Act fordings the office of Foreign Labor Cottification. The finding through this great is minimal right now as the mainland process for alen certification has recently undergone changes and has nationalized as opposed to being done by the state DOL offices. Yhe finding laborles need to be drastically increased for the forth build up.		
42		to compensate for the increased caseload that will be a direct result of the Marines relocation.	GDCL	

Englacero 2

Guam and CNMI Military Relocation DEIS/OEIS

J-030-025

Thank you for your comment.

Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.

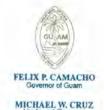
J-030-025 It is my opinion that lack of resources in this are may result in a bettlemed which would be as a retroit as lack of capacity at the root of Gramma action by AUCS, centractors will not be able to use or manufactures will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, centractors and will not be able to use or market by AUCS, centractors will not be able to use or market by AUCS, and and working illigation and working il



Guam and CNMI Military Relocation DEIS/OEIS

J-030-026

Thank you for your comment. Public comments on the Draft EIS are an important part of the decision-making process. Comments received from the public allow DoD to make changes to the EIS before the document is finalized. This information becomes part of the Final EIS and is evaluated when DoD issues a Record of Decision at the end of the NEPA process. Stay behind workers are addressed in the Socioeconomic Impact Assessment Study (Appendix F of the DEIS). Your recommended mitigation measures have been taken under consideration. Expanded mitigation discussion is available in the FEIS.



PORT AUTHORITY OF GUAM ATURIDAT I PUETTON GUAHAN Jose D. Leon Guerrero Commercial Port GOVERNMENT OF GUAM

1026 Cabras Highway, Suite 201 Piti, Guam 96925



February 18, 2010

JPGO c/o NAVFAC Pacific 258 Makalapa Drive, Suite 100 Pearl Harbor, HI 96860-3134

Attention: GPMO

The Port has reviewed the draft DEIS and transmitted comments previously to be assimilated among the various comments submitted through the Governor's Office. Subsequent to that earlier transmittal, the Port has been informed that the first phase of Federal Funding required to modernize the Port will not be awarded to the Port.

As mentioned in our earlier comments, the Port's Phase IA Port Improvement Project depended upon receipt of \$ 49.7 Million in Federal Funding and \$ 50M in low interest loans that are dependent on the Federal Funding to support debt service.

J-031-001 In the absence of funding, the Port cannot begin modernizing its facilities in order to handle the cargo for constructing and supporting the facilities described in the DEIS. It finds itself in the following position:

- The Port will not be able to move forward with:
 - The Phase IA uplands project to create yard expansion and gate and terminal operating improvements, storm water improvements, and needed buildings reconfiguration, i.e. the improvements/efficiencies needed to handle the increased cargo at the same time as it moves toward executing the Phase I B project
 - The Phase 1B in-water project to repair its dilapidated wharf bulkheads, increase berth depths, and usher in security and supplemental systems improvements. This project to be completed in the 2012/2013 timeframe is also dependent on future Federal funding to the extent of \$104.5 Million. This funding also has not been identified.
- · The Port will be severely impacted by huge cargo increases at its Commercial Port as a result of the military buildup described in the DEIS
 - a These cargo increases will place increased pressure on wharf facilities that are in critical need of maintenance and repair
 - These cargo increases will also place increased pressure on the Port's aging cargo handling facilities and equipment

The Part Authority of Guam, Jose D. Lean Guerrera Commercial Port is an Equal Employment Opportunity Employer Complaints of discrimination should be sent to the Human Resources Division

Guam and CNMI Military Relocation DEIS/OEIS

J-031-001

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of the Port of Guam and the interest to have DoD fund improvements to this facility. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal inter-agency effort to identify other Federal programs and funding sources that could benefit the people of Guam. While DoD is not directing the Port improvements, an amendment to the 2010 Defense Appropriations Bill is proposed in Congress which calls for the transfer of \$50M of DoD FY10 funds to the Department of Transportation to fund Phase I of the port improvements.

J-031-001

 The current cargo handling capacity will be substantially below that needed to meet expected demands and will result in long truck queues, congestion within the Port facility, increased traffic on Route 11, and vessel queues in Apra Harbor

J-031-002

- Attempting to handle the cargo necessary to construct the facilities described in the DEIS will result in considerable emissions within the Port's air shed. The additional levels of pollutants that will be emitted have been assessed by the Port. The emissions of CO2, NOx, SOx and DPM for each hour of port operation have been calculated and are presented in Table 4 of the attached document titled "Port Improvement Project Sponsored by the Port Authority of Guam, Evaluation of Expected Costs and Benefits".
- Without the environmental and efficiency improvements in the modernization program it is anticipated that emissions will greatly impact and exceed permissible levels in the Port air shed which is in a non-attainment zone.
- With the announcement of the lack of funding for the modernization program the
 Port is required by regulation to halt any modernization work and report to the
 legislature with a plan for approval of slow, incremental improvements to the Port
 infrastructure. These slow incremental improvements will not be able to handle
 the cargo necessary to construct the facilities described in the DEIS.

J-031-003

With the aforementioned developments, the Port now believes that it falls to JGPO and DOD to both quantify and mitigate the impacts that their project will have on the Port. It also requires identifying funding to mitigate these impacts as part of the overall military program described in the DEIS.

Sincerel

General Manager

Enclosure: Evaluation of Expected Project Costs and Benefits

J-031-002

Thank you for your comment.

As shown in Table 4 of the Guam Port Authority's Port Improvement Project - Evaluation of Expected Project Costs and Benefits, emissions of CO2, NOX, SOX, and DPM are expected to be reduced after the modernization improvements. The FEIS includes a qualatative analysis of air emissions during the peak construction years of the buildup, assuming that the port improvements are not made. This assessment is in Volume 2 Chapter 14 (Marine Transportation).

Air emissions in the Port air shed were not considered in Volume 4, Chapter 5 of the FEIS, as the analysis focused on air emissions during aircraft carrier berthing. However, the analysis showed no significant impacts indicating that air emissions generated as part of the proposed action would be less significant with or without the Port modernization project.

J-031-003

Thank you for your comment. The Jose D. Leon Guerrero Commercial Port (also known as the Port of Guam [Port] is administered by the Port Authority. The Port Authority is part of GovGuam and operates as a public corporation and autonomous instrumentality. Since its construction in 1969, the Port has remained largely unchanged. With many areas near capacity or unusable, expansion of the Port's facilities and equipment upgrades would create operational efficiencies and maximize Port capacity. Prior to the announcement of the proposed military relocation, Port improvements and expansion were under consideration; however, the military relocation created an additional impetus to implement planning studies and improvements to service the anticipated construction work and additional population.

In August 2007, work began to update the Port's master plan. The

Port Improvement Project Sponsored by The Port Authority of Guam

EVALUATION OF EXPECTED PROJECT COSTS AND BENEFITS

BST Associates August 2009



Supporting Material for the TIGER Discretionary
Grant Application Submitted by the Port Authority
of Guam

recommendations and updates address future expansion and development based on typical commercial growth, as well as the impending military buildup. A final draft Port master plan was completed in April 2008 which updated the existing master plan and set the road map for upgrading the facilities. The Port master plan was approved by the Guam Legislature in December 2009. The master plan calls for nearly \$200 million in capital improvement upgrades to the Port facilities. The modernization program would address both Guam's expected growth without the proposed action and the anticipated increase in cargo volume resulting from the proposed action.

The initial upgrades to the Port, which would largely deal with demolition of older facilities, reconfiguration of laydown areas, and traffic/security improvements to increase cargo flow, were scheduled to start in the near term. However, the recent denial of grant funding from the U.S. Department of Transportation is forcing the Port to reevaluate its planned modernization. Longer term improvements, including pier refurbishment, construction of new deep draft piers, and dredging to support such construction, have yet to be programmed. Any planned improvements would be required to comply with both Guam and federal environmental protection laws, including, but not limited to, the Endangered Species Act (ESA), Clean Water Act (CWA), and the National Environmental Policy Act (NEPA) to the extent applicable. The modernization plan would increase demand capacity to ensure that Guam's only commercial port is developed and managed to adequately accommodate and capitalize on the expansion (including the military relocation) expected to occur over the next few decades.

Funding for the Port's improvements (modernization) and expansion is anticipated to come from various federal agencies, GovGuam, and private sources. The funds for capital improvements would likely be repaid through user fees that would then be passed on to consumers, businesses, and other entities (i.e., DoD).

Port Authority of Guarn TIGER Grant Application, Supporting Document

J-031-004

Port of Guam Port Improvement Project - Evaluation of Expected Project Costs and Benefits

This report provides a benefit cost evaluation of the Port Improvement Project (the project) of the Port of Guam (PAG) marine terminal. It is based upon the U.S. Department of Transportation's (USDOT) benefit-cost analysis guidelines for TIGER projects focusing on operational cost savings, reduced inventory carrying costs and the benefits of reduced air emissions.

Benefit Cost Evaluation

The net present value (NPV) of benefits (operational cost savings, reduced inventory carrying costs and benefits from emission reduction) were divided by the cost of the project. The project provides a Benefit/Cost (B/C) ratio significantly greater than 1 under both real discount rates:

- Under the 7% discount rate, the B/Cratio is 2.37.
- Under the 3% discount rate, the B/ Cratio is 4.59.

Table 1: Summary of Benefit Cost Analysis Results, 2011 - 2041 2009 \$Millions

Component	NPV (2011-2041 in 1,000s of 20095		
Discount Rate	7.0%	3.0%	
Benefits			
Operational Cost Savings	\$143,239	\$260,030	
Reduced Inventory Carrying Costs	\$39,303	\$73,184	
Benefits from Emission Reduction	\$41,394	\$73,171	
Total Benefits	\$223,936	\$406,385	
Project Cost	\$94,460	\$88,511	
B/ CRatio	2.37	4.59	

burge. PBI, BST Associates

It was assumed that the same volume of cargo would be handled each year with and without the improvements. Benefits were estimated to begin in mid-2011 (after construction is partially completed) and extend through the expected 30-year life of the facility (to mid-2041).

Operational Cost Savings

The project will greatly improve the efficiency of the terminal. A detailed model of port operations was developed to assess how cargo operations (containerized and breakbulk) utilize key components of the marine terminal under current conditions as compared with improved conditions. The improvements will facilitate cost savings as follows:

 Reduced Truck Delays within the yard and at the gates – Trucks will be processed faster and will require substantially less service time inside the yard. Important subcomponents include:

BST Associates, Parsons Brinckerhoff International

The master plan calls for development of new facilities to handle increased customs and agriculture inspection requirements. It is anticipated that increased customs and agricultural inspection requirements will be coordinated through both Guam and relevant federal officials, including the U.S. Department of Agriculture. DoD will work with the Port and relevant Guam and federal inspection authorities to address required inspection of military cargoes that pass through the Port. Relative to shipment of materials through the Port to support the military realignment, DoD will also work with the same entities to develop plans to ensure that required inspections are conducted prior to release of materials to DoD construction sites. The increased inspection needs associated with civilian population growth will be a function of Port planning, implementation, and coordination with relevant Guam and federal customs and inspection authorities. In any instance, it is not anticipated that DoD will conduct the required inspections. As noted above, funding for Port improvements, including increased customs and agricultural inspection requirements, will be funded from federal agencies, GovGuam, and private sources. DoD will work with the Port to identify possible increased sources of federal funds. Relative to shipment of DoD cargoes, DoD anticipates reaching agreements with the Port and relevant Guam and federal officials to handle the costs of customs and agricultural inspections.

J-031-004

Thank you for your comment. As documented in this EIS, DoD acknowledges the existing sub-standard conditions of the Port of Guam. DoD is aware of the Port Authority of Guam's Port Improvement Program and the anticipated benefits that may be obtained. The Port Authority of Guam has expressed an interest to have DoD fund improvements to this facility. DoD's ability to fund actions is limited by Federal law. However, to minimize adverse impacts associated with the proposed military relocation program, DoD is leading a federal interagency effort to identify other Federal programs and funding sources that

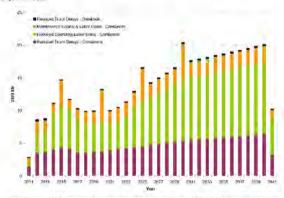
Port Authority of Guarn TIGER Grant Application, Supporting Document

J-031-004

- Gate Queuing Time,
- Gate Processing Time,
- Yard Service Time.
- Reduced Operating labor Costs improved gates and computer systems will likewise improve (decrease) the Port's cost of performing the gate functions. Important subcomponents include:
 - Truck Gate Operating hours
 - Container Yard Grounding Service
 - Vessel/Stevedoring Service
- Maintenance Labor and Capital Costs reductions in equipment operating hours will also lower maintenance costs. Without the proposed Port Improvement Project, increased capital and labor will be required to handle projected cargo volumes.

Figure 1 illustrates the annual flow of operational cost savings by major category.

Figure 1: Port of Guam Operational Cost Savings by Calendar Year, 2011 – 2041, 2009 \$Millions



Note: 2011 and 2041 are partial years since the analysis is from mid-2011 (after construction is partially completed) (a mid-2041).

Annual real net cost savings were estimated based on the costs associated with existing operations less the cost associated with improved operations. Table 2 summarizes the results of this analysis.

Under the 7% discount rate, the NPV of operational cost savings are estimated to be \$140.8 million and \$2.4 million, for container and breakbulk operations respectively. The combined operational cost savings are estimated at \$143.2 million.

BST Associates, Parsons Brinckerhoff International

2

Guam and CNMI Military Relocation DEIS/OEIS

could benefit the people of Guam. While DoD is not directing the Port improvements, an amendment to the 2010 Defense Appropriations Bill is proposed in Congress which calls for the transfer of \$50M of DoD FY10 funds to the Department of Transportation to fund Phase I of the port improvements.

J-031-004

Under the 3% discount rate, the NPV of operational cost savings are estimated to be \$255.9 million and \$4.1 million, for container and breakbulk operations respectively. The combined operational cost savings are estimated at \$260.0 million.

Table 2: Net Present Value of Cost Savings from Operations, 2011 - 2041, 2009 \$Millions

Туре	Description	Net Pres	ent Value
Discount	Rate	7.0%	3.0%
Containe	er operations - cost savings		
Reduced	Truck Delays		
	Gate Queuing Time	\$15.15	\$26.75
	Gate Processing Time	\$7.54	\$13.44
	Yard Service Time	\$25.89	\$46.01
Reduced	Operating labor Costs		
	Truck Gate Operating hours	57.04	\$12.45
	Container Yard Grounding Service	S4.18	\$7.38
	Vessel/Stevedoring Service	\$55.26	\$105.20
Mainten	ance Labor Costs	\$20.34	\$34.21
Mainten	ance Labor Costs	\$5,47	\$10.52
	SUBTOTAL	\$140.87	\$255.95
Breakbu	lk operations - cost savings		
Reduced	Truck Delays		
	Gate Queuing Time	\$721	\$1.21
	Gate Processing Time	\$551	\$0.93
	Yard Service Time	\$1.10	\$1.94
	SUBTOTAL	\$2,37	\$4.08
	Total - Container & Breakbulk	\$143.24	\$260.03

Note: Totals may not add due to rounding

Source: PBI. BST Associates

Reduced Inventory Carrying Costs

The project will also reduce the inventory carrying costs of shippers in Guam by reducing the time that cargo remains in the marine terminal prior to arriving at the shipper's warehouse or retail store.

Inventory carrying costs were estimated using the following factors:

- The estimated average value of cargo moving through the Port of Quam was estimated at \$150,000 per loaded inbound container and \$1,500 per revenue ton for breakbulk cargo. These estimates are based on a review of Government of Quam data (Oustoms and retail sales data) and review of cargo values in other port regions.
- Interest rate for carrying inventory was estimated at 15% per year.
- Additional net hours that cargo remains in the terminal under current conditions relative to improved conditions was an output of the marine terminal model.

Port Authority of Quam TIGER Grant Application, Supporting Document

J-031-004

Under the 7% discount rate, the NPV of reduced inventory carrying costs is estimated to be \$38.9 million and \$0.4 million, for container and breakbulk respectively. The combined cost savings are estimated at \$39.3 million.

Under the 3% discount rate, the NPV of reduced inventory carrying costs is estimated to be \$72.7 million and \$0.5 million, for container and breakbulk respectively. The combined cost savings are estimated at \$73.1 million.

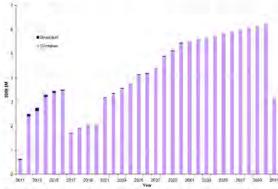
Table 3: Net Present Value of Reduced Inventory Carrying Costs, 2011 – 2041, 2009 \$Millions

Description	Net Prese	nt Value
Discount Rate	7.0%	3.0%
Container Operations	\$38.92	\$72.70
Breakbulk Operations	\$0.38	\$0.49
SUBTOTAL	\$39.30	\$73.18

Note: Totals may not add due to rounding Source: FBI, BST Associates

Figure 2 illustrates the annual flow of inventory carrying cost savings.

Figure 2: Port of Quam Reduced Inventory Carrying Costs by Calendar Year, 2011 – 2041, 2009 \$Millions



Note: 2011 and 2041 are partially ears since the analysis is from mid-2011 (after construction is partially completed) to mid-2041.

J-031-005

Benefits from Emission Reductions

The Port Improvement Project will also reduce emission of pollutants by reducing the hours of operations by vessels at berth (on all trade routes) and reduction in hours of use of terminal operating equipment (i.e., crane and top-pick operating hours).

BST Associates, Parsons Brinckerhoff International

4

Guam and CNMI Military Relocation DEIS/OEIS

J-031-005

Thank you for your comment. We concur that modernization of the Port can result in a reduction of air emissions. We appreciate the documents you have shared with this comment.

J-031-005

A spreadsheet model was developed to assess the benefits associated with reductions in CO2, NOX, SOX and DPM. The hours of operation came from the marine terminal operation model (net hours of existing less improved operations). The hourly rate of emissions was based upon recent Emissions Inventories for the Port of Los Angeles (2006 and 2007). As shown in the attached table, emissions in tons per hour of operation are reported for vessels while at berth (hotelling) by type and size and equipment under standard terminal operations. The estimated benefit per ton of emission by type came from Office of Regulatory Analysis and Evaluation, National Center for Statistics and Analysis.

Table 4: Benefit inputs from Emission Reduction, Tons of Emissions per Hour white at Berth

Category	002	NOX	90X	DPM
Container Vessel (1)				
USWC	1.32	0.0176	0.0176	0.00195
CNMI	0.54	0.0047	0.0079	0.00054
PSM	1.08	0.0094	0.0157	0.00107
Asia	1.08	0.0094	0.0157	0.00107
Breakbulk Vessel (1)	1.14	0.0119	0.0180	0.00152
Equipment (1)				
Cranes	0.35	0.000	0.000	0.000
Top picks	0.14	0.001	0.000	0.000
Yard Trucks	0.06	0.000	0.000	0.000
Benefitsper ton (2)	\$33	\$4,000	\$16,000	\$168,000

Sources (1) Port of Los Angeles Inventory of Air Emissions 2006 and 2007: (2) Office of Regulatory Analysis and Evaluation. National Center for Statistics and Analysis.

As with other benefits, the benefit from emission reductions was estimated annually and estimated net present value based upon the two discount rates. Table 5 shows a summary of these benefits, while Table 6 shows these benefits broken down in more detail by category.

Table 5: Present Value of Emission Reductions, 2011 - 2041, 2009 \$Millions

	7% Discount Rate	3% Discount Rate
002	\$6.8	\$12.8
NOX	\$3.6	\$6,3
SOX	\$15.8	\$27.4
DPM	\$15.3	\$26.7
Total	\$41.4	\$73.2

The benefit from CO2 reductions were increased at 2.4% per year, as per guidance. Benefit values per tons were not done for the other pollutants.

J-031-005

Table 6: Net Present Value of Emission Reductions, 2011 - 2041, 2009 \$Millions

		Net Present Value	
		7.0% discount.	3.0% discount
Reduction of 002	Emissions		
Ocean Vessels	Container	\$2.52	\$4.85
	Breakbulk	\$3.11	\$5.74
	Total	\$5.63	\$10.59
Equipment	Cranes	\$1.14	\$2.19
	Top picks	\$0.04	\$0.07
	Yard Equipment	\$0	\$0
	Total	\$1.15	\$2.20
	Total (Ocean Vessels and Equipment)	\$6.78	\$12.79
Reduction of NOX	Emissions		
Ocean Vessels	Container	\$2.47	\$4.56
	Breakbulk	\$0.62	\$0.87
	Total	\$3.09	\$5.43
Equipment	Oranes	\$0.12	\$0.22
	Top picks	\$0,36	\$0.63
	Yard Equipment	\$0	\$0
4-7	Total	\$0.47	\$0.84
	Total (Ocean Vessels and Equipment)	\$3,56	\$6.27
Reduction of SOX	Emissions		
Ocean Vessels	Container	\$12.04	\$22.11
	Breakbulk	\$3.73	\$5.28
	Total	\$15.77	\$27.38
Equipment	Cranes	\$0	\$0
	Top picks	\$0.02	\$0.03
	Yard Equipment	\$0	\$0
	Total	\$0.02	\$0.03
	Total (Ocean Vessels and Equipment)	\$15.77	\$27.39
Reduction of DRV	Emissions		
Ocean Vessels	Container	\$11.61	\$21,389
	Breakbulk	\$3.31	\$4.69
	Total	\$14.92	\$26.08
Equipment	Cranes	\$0	\$0
	Top picks	\$0.36	\$0.64
	Yard Equipment	\$0	SO
	Total	\$0,36	\$0.64
	Total (Ocean Vessels and Equipment)	\$15.29	\$26.72

J-031-005

		Net Pres	ent Value
Total Emissions Be	enefits	7.0% discount	3.0% discount
Ocean Vessels	Container	\$28.64	\$52.90
	Breakbulk	\$10.77	\$16.58
	Total	\$39.41	\$69.48
Equipment	Cranes	\$1.26	\$2.41
	Top picks	\$0.72	\$1.28
	Yard Equipment	\$0	\$0
	Total	\$1,99	\$3.69
	Total (Ocean Vessels and Equipment)	\$41.39	\$73.17

Figure 3 illustrates the annual flow of benefits from reduced emissions.

Figure 3 – Port of Guarn Reduced Inventory Carrying Costs by Calendar Year, 2011 – 2041, 2009 \$Millions



Note, 2011 and 2041 are partial years since the analysis is from mid-2011 (after construction is partially completed) to mid 2041