STORMWATER POLLUTION PREVENTION PLAN

FOR

PORT AUTHORITY OF GUAM EQUIPMENT MAINTENANCE AND REPAIR FACILITIES

1026 CABRAS HIGHWAY, SUITE 201 PITI, GU 96925

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SWPPP PREPARATION DATE:

July 2015

Accepted and Approved:

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<u> September 10,2015</u>

Date

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CERTIFICATION

(Required by EPA Guidance)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing of violations.

Mangur Mangur - I. Somher & 2015 Signature: Title: **Certification Date:**

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REVISIONS

Revision	Date	Details / Comments
Revision 00	February 2011	Newly developed SWPPP
Revision 01	July 2015	Compliance with new General Permit and facility layout and operational changes

Note: Updates are required whenever there is a change in design, construction, operation or maintenance which creates a potential for the discharge of pollutants to the waters of the State or if the stormwater pollution prevention plan proves to be ineffective in achieving the general objectives of controlling pollutants in stormwater discharges associated with industrial activity (see Section 1.4).

TABLE OF CONTENTS

LIST OF APPENDICESii
LIST OF TABLESii
LIST OF ACRONYMS AND ABBREVIATIONSiii
LIST OF ACRONYMS AND ABBREVIATIONS. iii 1.0 FACILITY INFORMATION 1-1 1.1 Background 1-1 1.2 The NPDES Permit and Updated Requirements 1-1 1.3 Applicability and Distribution 1-2 1.4 Revisions to the SWPPP 1-2 2.0 STORMWATER POLLUTION PREVENTION TEAM 2-1 3.0 SITE DESCRIPTION 3-1 3.1 General 3-1 3.2 Drainage System Descriptions 3-2 3.2.1 Drainage Area 1 3-2 3.2.2 Drainage Area 2 3-3 3.3 Facility Activities 3-4 3.4 Potential Pollutant Sources 3-5 3.5 Spills and Leaks 3-6 3.6.1 Methodology 3-8 3.6.1 Methodology 3-8 3.6.2 Findings 3-8 3.7 Existing Monitoring 3-9 3.8 Historical Stormwater Monitoring Data 3-9 4.0 STORMWATER CONTROL MEASURES 4-1 4.1 Baseline Best Management Practices 4-1 4.1.2 Good Housekeeping 4-2
4.1.3Preventive Maintenance4-34.1.4Spill Prevention and Response Procedures4-3
4.1.5Erosion and Sediment Control.4-34.1.6Management of Stormwater Runoff.4-54.1.7MSGP Sector-Specific Non-Numeric Effluent Limits4-5
4.1.8 Pollution Prevention Training
4.1.11 Record keeping and Internal Reporting Procedures
4.3 Site-Specific and Structural BMPs

4.4 BMP Implementation Program	10
4.4.1 Scheduling of Implementation	10
5.0 STORMWATER MONITORING AND REPORTING	5-1
5.1 Benchmark Monitoring5	5-1
5.1.1 Benchmark Monitoring Reports5	5-1
5.1.2 Benchmark Monitoring Procedure5	-2
5.2 Impaired Waters Monitoring5	-3
5.2.1 Impaired Waters Monitoring Reports5	-4
5.2.2 Impaired Waters Monitoring Procedure5	-4
5.3 Annual Report5	-4
6.0 INSPECTIONS	j -1
6.1 Routine Facility Inspections	j -1
6.2 Quarterly Visual Stormwater Assessments	j-2
6.2.1 Visual Assessments of Substantially Identical Outfalls	;-3
7.0 DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER	
OTHER FEDERAL LAWS7	′ -1
7.1 Documentation Regarding Endangered Species7	′ -1
7.2 Documentation Regarding Historic Properties7	′ -1
8.0 CORRECTIVE ACTIONS	5-1
8.1 Conditions Requiring SWPPP Revisions	5-1
8.2 Conditions Requiring SWPPP Review	5-1
8.3 Corrective Action Deadlines	5-1
9.0 REFERENCES AND INFORMATION SOURCES)-1

LIST OF TABLES

Number

<u>Title</u>

Page

Table 2-1:	Port Authority of Guam Pollution Prevention Team	.2-2
Table 3-1:	Potential Pollutants Associated with Industrial Activities	.3-6
Table 5-1:	Quarterly Benchmark Monitoring Criteria	.5-1

LIST OF APPENDICES

A. FIGURES

- B. BMP FACT SHEETS
- C. ADDITIONAL DOCUMENTATION
- D. NOTICE OF INTENT AND 2015 MULTI-SECTOR GENERAL PERMIT
- E. ENDANGERED SPECIES DOCUMENTATION
- F. HISTORIC PROPERTIES DOCUMENTATION

LIST OF ACRONYMS AND ABBREVIATIONS

AS AST	Activity-Specific Aboveground Storage Tank
BMP	Best Management Practice
CERCLA CFR CWA	Comprehensive Environmental Response, Compensation, and Liability Act Code of Federal Regulations Clean Water Act
DMR	Discharge Monitoring Report
EPA EQMR	United States Environmental Protection Agency Equipment Maintenance and Repair
Guam EPA	Guam Environmental Protection Agency
IP&E	IP&E Holdings, LLC
MSGP	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System
OWS	Oil/Water Separator
P2 PAG PCB	Pollution Prevention Port Authority of Guam polycyclic aromatic hydrocarbon
SPCC SWPPP	Spill Prevention, Control, and Countermeasure Stormwater Pollution Prevention Plan
USCG	United States Coast Guard

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1.0 FACILITY INFORMATION

1.1 BACKGROUND

This Stormwater Pollution Prevention Plan (SWPPP) has been developed for the Port Authority of Guam (PAG) Equipment Maintenance and Repair facilities at the Commercial Port located at 1026 Cabras Highway, Suite 201 Piti, GU 96925 in order to comply with the 1990 amendments to the Clean Water Act (CWA) that established the National Pollutant Discharge Elimination System (NPDES) permitting system. The purpose of the SWPPP is to identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharges from the site. It also serves as a framework for pollution prevention activities and as a guidance document for implementing Best Management Practices (BMPs) to minimize stormwater pollution. Facility maps are presented in Appendix A and BMP Fact Sheets are provided in Appendix B. Additional SWPPP documentation is maintained in Appendix C.

In accordance with 40 Code of Federal Regulations (CFR) 122.26(b)(14)(viii), this SWPPP addresses the areas of the facility that are associated with industrial activities, which are limited to vehicle and equipment maintenance and cleaning operations. These operations are performed at the PAG's Equipment Maintenance and Repair (EQMR) building, the nearby equipment wash rack and outdoor fueling/storage areas, and the gantry crane operation and maintenance area.

This SWPPP has been prepared following U.S. Environmental Protection Agency (EPA) guidelines, *Developing Your Stormwater Pollution Prevention Plan: A Guide for Industrial Operators* (EPA 833-B-09-002, February 2009) and in accordance with the EPA *Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP)*, issued on 4 June 2015.

1.2 THE NPDES PERMIT AND UPDATED REQUIREMENTS

PAG operates under MSGP GUR050000, NPDES Identification Number GUR053001. A copy of the permit is included in Appendix D. This SWPPP must address potential pollution sources of stormwater and the BMPs to prevent pollution of Apra Harbor and the Philippine Sea. This SWPPP addresses the requirements set forth in the NPDES permit for each of the drainage areas at the site, including industry sector-specific requirements outlined in Part 8, Subpart Q of the MSGP.

1.3 APPLICABILITY AND DISTRIBUTION

The EPA has authority under the CWA to regulate discharges to waters of the United States and its territories, including priority stormwater sources. Federal regulations require these discharges be managed via the NPDES. The EPA remains the permit authority for Guam.

The SWPPP will be distributed to each member of the Stormwater Pollution Prevention (P2) Team, described in Section 2.0. Updates to the SWPPP, as necessary, will be distributed by the P2 Team leader.

1.4 REVISIONS TO THE SWPPP

This SWPPP will be amended whenever there is a significant change in design, construction, maintenance, or operation at the port facility that creates or modifies potential pollutant discharges, or if this SWPPP proves to be ineffective in achieving the general objectives of controlling pollutants in stormwater discharges associated with industrial activity at the port. Conditions that indicate a need for revision of this SWPPP are discussed in Section 8 and will be identified during periodic site inspections, as described in Section 6.

2.0 STORMWATER POLLUTION PREVENTION TEAM

The PAG has designated a Stormwater P2 Team that provides a forum for identifying and addressing stormwater pollution concerns at the commercial port, and to ensure that the SWPPP is appropriately implemented. The PAG P2 Team consists of PAG managers and supervisors who are responsible for activities that have the potential to directly impact stormwater quality at the PAG. The P2 Team is responsible for the following:

- Identifying any changes in operations to determine whether revisions must be made to this SWPPP
- Supporting implementation of NPDES permit and SWPPP requirements, control measures, and BMPs
- Conducting or coordinating SWPPP training
- Conducting or coordinating stormwater sampling and monitoring efforts
- Ensuring timely submittal of Discharge Monitoring Reports (DMRs) and annual stormwater reports to the EPA
- Taking corrective actions when deficiencies or issues are identified
- Maintaining clear lines of communication with tenants and PAG management to ensure a cooperative partnership.

The P2 Team will meet at a minimum of once annually to discuss stormwater-related problems, or concerns. The Team Leader may call additional meetings to address specific events or issues as they arise. Additional attendees, such as consultants, vendors, or stakeholders may be included in the meetings when appropriate. The P2 Team will also ensure that the training described in Section 4.1.8 occurs annually, or more frequently, as deemed necessary by the P2 Team.

PAG P2 Team members and their responsibilities are identified in Table 1.

Title	Telephone Number	Roles and Responsibilities
General Manager	(671) 477-5931 ext. 302/303	Review and approve SWPPP, enforce planning and implementation.
Engineering Manager	(671) 477-5931 ext. 430	Pollution Prevention Coordinator, review/revise SWPPP as necessary, administer implementation.
Maintenance Manger	(671) 477-5931 ext. 206	Support implementation of SWPPP, team leader for corrective actions.
Operations Manager	(671) 477-5931 ext. 237	Support implementation of SWPPP, identify areas for improvement.
Health & Safety Manager	(671) 477-5931 ext. 420	Support implementation of SWPPP; assist with corrective actions.

 Table 2-1: Port Authority of Guam Pollution Prevention Team

3.0 SITE DESCRIPTION

3.1 GENERAL

Facility information

Name of Facility:Port Authority of GuamAddress:1026 Cabras Highway, Suite 201Piti, GU 96925

Geographic Location (in decimal degrees, using WGS84 datum): Latitude: 13.461870° N Longitude: 144.666594° E

The PAG Cargo Terminal is located at 1026 Cabras Highway on Apra Harbor in Piti, Guam. The Cargo Terminal compound occupies a total of 26.5 acres and includes a number of administrative buildings, warehousing, and a large container and cargo storage yard.

As part of the recent port expansion and modernization program, the PAG has implemented a number of improvements to support stormwater management and minimize potential pollutant discharges. These improvements have included installation of coalescing media oil/water separators (OWSs) on outfalls, use of vegetated swales and infiltration ponds to reduce runoff, and installation of a dedicated equipment wash rack at the EQMR facilities.

The EQMR facilities and gantry crane operation and maintenance area covered by this SWPPP occupy approximately 10.25 acres and are located within the PAG Cargo Terminal compound (Figure 1 of Appendix A). Industrial activities are associated with the EQMR building, the equipment wash rack, outdoor fueling/storage areas, the Crane Shop, and the gantry crane operation and maintenance area (Figures 2 through 4 of Appendix A).

To the northwest of the EQMR facilities, behind a concrete wall, is a small tank farm operated by IP&E Holdings, LLC (IP&E), and to the east of these facilities is an open paved area that is used for active port operations.

3.2 DRAINAGE SYSTEM DESCRIPTIONS

Drainage at the EQMR facilities is split into two drainage areas; Drainage Area 1 and Drainage Area 2 (Figures 2 and 3 of Appendix A). Stormwater in each drainage area is collected through a number of storm drain inlets and is conveyed to two outfalls (Outfall 001 and Outfall 002) that discharge directly into Apra Harbor.

The gantry crane operation and maintenance area is comprised of a single large drainage area (Drainage Area 3) that runs the length of the gantry crane tracks. Drainage in this area generally sheet flows to the south and discharges directly into Apra Harbor (Outfall 003).

3.2.1 Drainage Area 1

Primary Features:Equipment Maintenance and Repair Building and Crane ShopDrainage Area:3.1 acresImperviousness:High

Drainage Area 1 occupies the western portion of the EQMR facilities and includes the EQMR building as well as the portion of Warehouse 1 that contains the Crane Shop (Figure 2 of Appendix A). A total of two storm drain inlets are located within Drainage Area 1. The inlets are located off the southern corner of the EQMR building and the northern corner of Warehouse 1. Stormwater enters the inlets and is conveyed to an OWS that drains to Outfall 001, located in the western corner of the drainage area, which discharges into Apra Harbor. Paved surfaces in the drainage area are graded to direct stormwater to the inlets. Rooftop areas are not equipped with downspouts but are sloped to direct water to flow off of the sides of the roof and onto the pavement below. The stormwater conveyance that services this drainage area also conveys stormwater collected from Port Cargo Terminal parking areas to the northeast.

A small diesel tank farm, operated by IP&E, is located to the northwest of Drainage Area 1. Stormwater that accumulates in the secondary containment of this tank farm is occasionally pumped through a pipe and is discharged to storm drain inlet SI-2A. IP&E conducts a visual inspection of the stormwater for any indication of contamination prior to discharge. If there is any evidence of contamination, the stormwater is not discharged, and an alternative means of offsite disposal is used. Inspection and management of the stormwater is conducted in accordance with IP&E's Spill Prevention, Control, and Countermeasure (SPCC) Plan (IP&E, 2013).

3.2.2 Drainage Area 2

Primary Features:	Equipment Washing, Fueling Area, Used Oil Storage Area,
	Outdoor Storage Area
Drainage Area:	3.4 acres
Imperviousness:	High

Drainage Area 2 occupies the eastern portion of the EQMR facilities and includes the equipment wash rack, an outdoor material storage area, as well as two secondary containment pads used for diesel storage, used oil storage, liquid materials storage, and storage of hazardous and non-hazardous waste (Figure 3 of Appendix A).

Throughout Drainage Area 2, storm drain inlets capture and convey stormwater to an OWS that drains to Outfall 002, located in the southern corner of the drainage area, which discharges into Apra Harbor. One inlet is located off the western corner of the Welding Shop, three inlets are located southwest of the equipment wash rack, a fifth inlet is located immediately outside the southwest wall of the used oil storage area containment pad, and the final inlet is located in the paved area southeast of the outside material storage area. All paved surfaces in the drainage area are graded to direct stormwater to the inlets. Rooftop areas are not equipped with downspouts but are sloped to direct water to flow off of the sides of the roof and onto the pavement below. The stormwater conveyance that services this drainage area also conveys stormwater collected from the Port Cargo Terminal parking areas to the northeast.

3.2.3 Drainage Area 3

Primary Features:	Gantry Crane Operation and Maintenance Area
Drainage Area:	3.75 acres
Imperviousness:	High

Drainage Area 3 is located along the wharf directly to the southeast of the EQMR facilities. The gantry cranes in this area operate along a track system that fronts the wharf (Figure 4 of Appendix A). Due to their size and configuration, the gantry cranes cannot be moved to the EQMR facilities for repair. Therefore, periodic equipment maintenance and repair is performed in this area. There are no storm drain inlets in the immediate vicinity and stormwater in this area generally sheet flows towards the south where it discharges into Apra Harbor. This discharge area has been designated as

Outfall 003. Stormwater in the areas to the north of Drainage Area 3 generally flows to the north and is managed through a number of storm drain inlets and conveyance lines.

Based on the types of activities conducted in Drainage Area 3, the chemicals used during maintenance operations in this area, and control measures in place, Outfall 003 is being treated as substantially identical to Outfall 001. Additional discussion regarding monitoring of substantially identical outfalls is included in Section 5.

3.3 FACILITY ACTIVITIES

Primary activities within the PAG's EQMR facilities include basic preventative care, maintenance, and repair of PAG owned vehicles and equipment, which includes gantry cranes, forklifts, top lifters, side loaders, and a mobile harbor crane. Equipment maintenance includes inspection, painting operations, battery servicing and storage, change-out of equipment fluids (engine oil and hydraulic fluids), fueling, basic welding and fabrication, and equipment washing.

Vehicle and Equipment Maintenance Area (Drainage Area 1)

Vehicle and equipment maintenance and repair activities are performed within the EQMR building and under covered service areas located under the eaves on the south side of the structure. Additional metal fabrication occurs in the Welding Shop (Drainage Area 2). Chemicals used in this area include lubricants, solvents, paints, diesel, gasoline, hydraulic fluid, and engine oil. These chemicals are stored inside the EQMR building and are kept within appropriate storage containers such as flammable material storage lockers and containment pallets.

Crane Shop (Drainage Area 1)

Maintenance and repair of PAG cranes is performed within the Crane Shop, which is located in the western portion of Warehouse 1. All maintenance and repair activities associated with the Crane Shop are conducted indoors and are not exposed to precipitation or stormwater run-on/runoff. Chemicals and products used in this area include lubricants, solvents, paints, diesel, gasoline, hydraulic fluid, and engine oil. These materials are stored inside Warehouse 1 and are kept within appropriate storage containers such as flammable material storage lockers and containment pallets.

Vehicle and Equipment Wash Rack (Drainage Area 2)

Vehicle and equipment washing occurs in the designated wash rack that is located to the east of the Welding Shop. Wash water is contained by the washing pad and

directed to a self-contained wash water recycling system that is periodically maintained by a service contractor in accordance with manufacturer specifications.

Diesel Storage Area (Drainage Area 2)

A secondary containment pad is located approximately 100 feet to the southeast of the EQMR building. The containment pad is used to house a 4,000-gallon diesel aboveground storage tank (AST). Equipment fueling operations take place immediately adjacent to the containment pad.

Used Oil Storage Area (Drainage Area 2)

An outdoor fenced secondary containment area, identified as the Used Oil Storage Area, is located immediately to the south of the Diesel Storage Area. The Used Oil Storage Area houses two 950-gallon used oil ASTs and is also used to store drums and containers of new liquid materials, including oils, solvents, paints, and fuels. Sealed containers of hazardous and non-hazardous waste are also staged in this area for waste disposal contractor pickup.

Material Storage Area (Drainage Area 2)

There is an outdoor storage area located southwest of the Welding Shop that houses miscellaneous materials including concrete barriers, metal pipes and beams, crane fittings, and other materials used for welding and fabrication. This storage area is also contained within a concrete curbing.

Gantry Crane Operation and Maintenance Area (Drainage Area 3)

Due to their size and configuration, gantry cranes that operate in this area cannot be moved to the EQMR for maintenance and repair. Therefore, periodic maintenance of this equipment is performed in place. Chemicals used in these operations include lubricants, solvents, paints, diesel, gasoline, hydraulic fluid, and engine oil. Chemicals are not stored in this area during normal operations and are only brought to this area to support maintenance activities. These chemicals are stored at the EQMR facilities as described above.

3.4 POTENTIAL POLLUTANT SOURCES

Although the most significant equipment maintenance and repair is performed inside the EQMR building, other operations and materials have the potential to be exposed to stormwater. Table 3-1 provides a summary of industrial activities and the corresponding potential pollutants that may be exposed to stormwater.

Industrial Activity	Potential Pollutants
Vehicle and equipment maintenance	Diesel, gasoline, grease, oil, hydraulic fluid, solvents, lubricants, metals, battery acid, paints
Vehicle and equipment fueling	Diesel fuel
Vehicle and equipment washing	Diesel, gasoline, grease, oil, hydraulic fluid, lubricants, metals, paint
Material storage	Metals, paints, used oil
Welding and fabrication	Metals, cutting compounds, lubricants

 Table 3-1: Potential Pollutants Associated with Industrial Activities

3.5 SPILLS AND LEAKS

Due to the nature of equipment fueling and industrial activities conducted at the site, the potential exists for fuel or chemicals to be spilled or for storage containers to leak. EPA has defined "significant spills" to include releases within a 24-hour period of hazardous substances in excess of reportable quantities under Section 311 of the CWA and Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

The following is a summary of where potential spills and leaks could occur at the facility and which outfalls would be likely to be affected:

Vehicle and Equipment Maintenance Area (Drainage Area 1)

Potential spills and leaks may occur during vehicle and equipment maintenance activities either due to unanticipated equipment failure or accidental spillage of materials by maintenance personnel. Materials spilled indoors at the EQMR building would be readily contained and cleaned up without impacting stormwater. However, spills that occurred in the outdoor maintenance area on the south side of the EQMR building could potentially flow into storm drain inlets (SI-1A and SI-2A) and impact stormwater discharging from Outfall 001.

Crane Shop (Drainage Area 1)

Potential spills and leaks may occur during crane maintenance activities either due to unanticipated equipment failure or accidental spillage of materials. Materials spilled indoors at the Crane Shop would be readily contained and cleaned up without impacting stormwater at the port. Although all operations at the Crane Shop occur indoors, there

is a small potential for spills to occur outdoors during transfer of equipment or materials into the shop area. Spills occurring outside of the Crane Shop could potentially flow into storm drain inlet SI-2A and impact stormwater discharging from Outfall 001.

Vehicle and Equipment Wash Rack (Drainage Area 2)

Potential spills and leaks from the equipment wash rack could include wash water from vehicle and equipment washing activities as well as any associated soaps and/or detergents. A small potential also exits for equipment leaks during washing activities, which could include oil, grease, fuel, and/or hydraulic oil. Although the wash rack is designed to contain all liquids generated from its use, any spilled material that was not successfully contained could enter storm drain inlets (SI-1B, SI-2B, and SI-3B) and impact stormwater discharging from Outfall 002.

Diesel Storage Area (Drainage Area 2)

Potential spills and leaks from the diesel storage area could include diesel fuel from the 4,000-gallon diesel AST or equipment fueling operations that occur in the surrounding area. The secondary containment pad is meant to prevent leaks from migrating out of the containment area, however, any material spilled outside of the containment area could enter storm drain inlets (SI-4B and SI-5B) and impact stormwater discharging from Outfall 002.

Used Oil Storage Area (Drainage Area 2)

Potential spills and leaks within the used oil storage area could occur during transfer to/from the used oil ASTs, or from container failure. Container failure could also cause leaks from new liquid material containers, or from hazardous and non-hazardous waste containers staged in this area. Although the used oil storage area is designed to prevent leaks from migrating out of the containment area, any spilled material that was not successfully contained could enter storm drain inlets (SI-5B and SI-6B) and impact stormwater discharging from Outfall 002.

Gantry Crane Operation and Maintenance Area (Drainage Area 3)

Potential spills and leaks may occur in this area as a result of unanticipated equipment failure or from accidental spillage of materials during gantry crane maintenance operations. If left uncontained, spills occurring in this area could impact stormwater discharging from Outfall 003.

3.5.1 Historic Spills

No significant spills were reported to have occurred onsite during the period of record.

3.6 NON-STORMWATER DISCHARGE IDENTIFICATION

3.6.1 Methodology

A comprehensive site inspection was conducted on 10 August 2015. The purpose of this inspection was to identify the presence and potential causes of any unauthorized non-stormwater discharges at EQMR facilities and the gantry crane operation and maintenance area. All three drainage areas were inspected, including secondary containment pads, the equipment wash rack, outdoor storage areas, gantry crane operation area, as well as the following storm drain inlets and stormwater outfall locations:

Storm Drain Inlets

- SI-1A (Drainage Area 1)
- SI-2A (Drainage Area 1)
- SI-1B (Drainage Area 2)
- SI-2B (Drainage Area 2)
- SI-3B (Drainage Area 2)
- SI-4B (Drainage Area 2)
- SI-5B (Drainage Area 2)
- SI-6B (Drainage Area 2)

Stormwater Outfall Locations:

- Outfall 001 (Drainage Area 1)
- Outfall 002 (Drainage Area 2)
- Outfall 003 (Drainage Area 3)

3.6.2 Findings

At the time of the inspection there were no sources of non-stormwater discharge identified. All structural BMPs were found to be in good condition with no evidence of structural deterioration or other operational conditions that could lead to an unauthorized non-stormwater discharge. All storm drain inlets were found to be in good condition with no evidence of contaminants or other unauthorized materials entering the

system. Outfalls 001, 002, and 003 were also found to be in good condition with no indication of non-stormwater discharges.

3.7 EXISTING MONITORING

A visual inspection program of the ASTs and related equipment is in place at the PAG EQMR facility. Monthly inspections are performed by maintenance staff and documentation of the inspections is kept onsite in the SPCC for a minimum of three years. Inspection checklists are available in Appendix D.1 of the SPCC plan. A copy of the SPCC plan is maintained onsite in the same location as this SWPPP.

3.8 HISTORICAL STORMWATER MONITORING DATA

The following section provides a summary of quarterly benchmark sampling results obtained under the previous permit. Under the 2008 MSGP, benchmark criteria for total lead and total zinc are hardness dependent values. Two separate grab samples were obtained from the receiving water during the monitoring period to calculate an average hardness value. The 2008 benchmark criteria for total lead and total zinc in the tables below are based on receiving waters with hardness values exceeding 250 mg/L.

Monitoring Period 1: 1 July – 30 September 2014			
Sample Collection Date: 25 July 2014			
Monitoring Location: Outfall 001			
Parameter	Result	2008 Benchmark Criteria	
Total Aluminum	0.180 mg/L	0.75 mg/L	
Total Iron	0.190 mg/L	1.0 mg/L	
Total Lead	0.0026 mg/L	0.262 mg/L	
Total Zinc	0.130 mg/L	0.26 mg/L	
Monitoring Location: Outfall 002			
Parameter	Result	2008 Benchmark Criteria	
Total Aluminum	0.120 mg/L	0.75 mg/L	
Total Iron	0.190 mg/L	1.0 mg/L	
Total Lead	<0.00091 mg/L	0.262 mg/L	
Total Zinc	0.081 mg/L	0.26 mg/L	

Monitoring Period 2: 1 October – 31 December 2014			
Sample Collection Date: 31 December 2014			
Monitoring Location: C	Monitoring Location: Outfall 001		
Parameter	Result	2008 Benchmark Criteria	
Total Aluminum	0.420 mg/L	0.75 mg/L	
Total Iron	1.00 mg/L	1.0 mg/L	
Total Lead	<0.00091 mg/L	0.262 mg/L	
Total Zinc	1.10 mg/L	0.26 mg/L	
Monitoring Location: Outfall 002			
Parameter	Result	2008 Benchmark Criteria	
Total Aluminum	0.210 mg/L	0.75 mg/L	
Total Iron	0.240 mg/L	1.0 mg/L	
Total Lead	<0.00091 mg/L	0.262 mg/L	
Total Zinc	0.320 mg/L	0.26 mg/L	

Monitoring Period 3: 1 January – 31 March 2015				
Sample Collection Date: 13 January 2015				
Monitoring Location: Outfall 001				
Parameter	Result	2008 Benchmark Criteria		
Total Aluminum	0.280 mg/L	0.75 mg/L		
Total Iron	0.630 mg/L	1.0 mg/L		
Total Lead	0.0053 mg/L	0.262 mg/L		
Total Zinc	0.170 mg/L	0.26 mg/L		
Monitoring Location: Outfall 002				
Parameter	Result	2008 Benchmark Criteria		
Total Aluminum	0.190 mg/L	0.75 mg/L		
Total Iron	0.420 mg/L	1.0 mg/L		
Total Lead	0.0029 mg/L	0.262 mg/L		
Total Zinc	0.160 mg/L	0.26 mg/L		

Monitoring Period 4: 1 April – 30 June 2015				
Sample Collection Date: 6 April 2015				
Monitoring Location: Outfall 001				
Parameter	Result	2008 Benchmark Criteria		
Total Aluminum	0.160 mg/L	0.75 mg/L		
Total Iron	0.240 mg/L	1.0 mg/L		
Total Lead	<0.0013 mg/L	0.262 mg/L		
Total Zinc	0.072 mg/L 0.26 m			
Monitoring Location: Outfall 002				
Parameter	Result	2008 Benchmark Criteria		
Total Aluminum	0.210 mg/L	0.75 mg/L		
Total Iron	0.270 mg/L	1.0 mg/L		
Total Lead	<0.0013 mg/L	0.262 mg/L		
Total Zinc	0.070 mg/L	0.26 mg/L		

Average Parameter Concentrations – 2014/2015				
Monitoring Location: Outfall 001				
Parameter	Average Concentration	2008 Benchmark Criteria		
Total Aluminum	0.26 mg/L	0.75 mg/L		
Total Iron	0.52 mg/L	1.0 mg/L		
Total Lead	0.0025 mg/L	0.262 mg/L		
Total Zinc	0.37 mg/L	0.26 mg/L		
Monitoring Location: Outfall 002				
Parameter	Average Concentration	2008 Benchmark Criteria		
Total Aluminum	0.18 mg/L	0.75 mg/L		
Total Iron	0.28 mg/L	1.0 mg/L		
Total Lead	0.0056 mg/L	0.262 mg/L		
Total Zinc	0.16 mg/L	0.26 mg/L		

Average quarterly benchmark sampling results were below 2008 criteria for all parameters except for concentrations of total zinc detected at Outfall 001. The exceedance for total zinc at Outfall 001 appears to have been driven by a single sample result of 1.1 mg/L detected in December 2014, which corresponded to a period when zinc bars were being temporarily stored outside. The port moved these materials when they became aware of the issue and they have since been shipped off site. Other potential ongoing sources of zinc at the facility are exposed galvanized metal surfaces and tire dust.

In an effort to reduce concentrations of zinc in stormwater runoff, the port has made an effort to move galvanized materials under cover and has increased the frequency of housekeeping and sweeping operations. The port has also recently implemented a scheduled vehicle and equipment washing program at the equipment wash rack, which is expected to help reduce potential pollutant load on fleet vehicles and equipment.

The port is aware that the marine waters benchmark value for zinc under the 2015 MSGP (0.09 mg/L) is significantly lower than the hardness dependent value derived under the previous permit. The port will continue to evaluate additional control options if quarterly benchmark sampling results under the new permit exceed benchmark criteria.

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4.0 STORMWATER CONTROL MEASURES

This section of the SWPPP discusses stormwater control measures utilized at the PAG EQMR facilities. BMPs can minimize potential pollutant sources and effective stormwater management can further reduce pollutants in stormwater discharges. BMPs can be characterized into three groups based on generic activities, specific activities, and site/structural-specific activities. These BMP groups are defined as follows:

- "Baseline" BMPs are practices that are relatively simple, applicable to a wide variety of industries and activities, and are inexpensive. EPA identifies eight Baseline BMPs as discussed in Section 4.1 of this SWPPP.
- "Activity-Specific" (AS) BMPs are practices that are applicable to a specific type of activity that occurs at the facility. The activity may occur at more than one location. Examples include equipment washing and maintenance. Activities specific to the facility that potentially contribute to stormwater pollution and their respective BMPs are discussed in Section 4.2.
- "Site-Specific" BMPs are practices that are applicable to specific locations, structures, or items of equipment at the facility. Site-specific BMPs are discussed in Section 4.3.

Fact sheets for the BMPs relevant to the equipment and maintenance facilities are provided in Appendix B.

4.1 BASELINE BEST MANAGEMENT PRACTICES

The maintenance facility NPDES Permit requires the SWPPP to provide an implementation schedule for stormwater control measures and BMPs, including the following Baseline BMPs:

- Minimize exposure
- Good Housekeeping
- Preventive Maintenance
- Visual Inspections
- Spill Prevention and Response
- Sediment and Erosion Prevention and Control
- Management of Stormwater Runoff

- Pollution Prevention Training
- Recordkeeping and Internal Reporting Procedures

These eight BMPs are also identified in the EPA Guidance for SWPPPs and are applicable to all types of industrial facilities. Specific measures for implementing these BMPs are described in subsequent sections of this SWPPP. In addition, three of the fact sheets included in Appendix B specifically address the concepts of Baseline BMPs. Those fact sheets are:

- BMP Sheet BL1 Elimination of Non-Stormwater Discharges to Storm Drains
- BMP Sheet BL2 Emergency Spill Cleanup Plans
- BMP Sheet BL3 Stormwater Pollution Prevention Education

4.1.1 Minimize Exposure

The following control measures have been implemented to minimize the exposure of potential pollutants to rain and runoff.

- All maintenance and repair activities are performed indoors at the EQMR building and Crane Shop whenever practicable.
- Use of containment measures (i.e. hanging plastic barriers, tarpaulins, and roofing cover) is in effect for all painting and outdoor maintenance operations.
- Vehicle and equipment washing is performed at the designated wash rack.
- Diesel AST, used oil ASTs, and drums and containers are all maintained on secondary containment pads with impervious ground surfaces and walls.
- Outdoor material storage occurs within a curbed area to prevent run-on and minimize potential pollutant runoff.

4.1.2 Good Housekeeping

Good housekeeping requires the maintenance of a clean, orderly facility. Good housekeeping measures will be implemented as part of daily operations and will include weekly visual inspections and regular cleaning of work areas to remove garbage, floatables, and other potential pollutants.

Fact sheets for AS BMPs addressing good housekeeping measures as they apply to specific operations or general site/building maintenance activities have been created and are discussed in Section 4.2 and included in Appendix B.

4.1.3 Preventive Maintenance

A preventive maintenance program involves timely inspection and maintenance of stormwater management devices, as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures. These breakdowns or failures can result in discharges of pollutants to surface waters. Routine facility inspections are conducted quarterly, at minimum, and will aid in identifying potential areas requiring maintenance. Specific attention will be paid to the EQMR area, vehicle and equipment wash rack, equipment fueling area, used oil storage area, gantry crane operation area, and the outside material storage areas.

4.1.4 Spill Prevention and Response Procedures

The Port Police document spills and leaks of oil or hazardous materials at PAG facilities both on land and in the water. Spills in the water are handled by the Guam Environmental Protection Agency (Guam EPA) and the United States Coast Guard (USCG). The USCG responds to spills in the waterways to conduct an evaluation of the spill and predict the movement and effects of the spill.

In the event of a spill, the following agencies must be contacted immediately:

Agency	Telephone Number
Port Police	(671) 477-5931 ext. 200/202
Local Fire Department	911
National Response Center	(800) 424-8802
USCG	(671) 355-4937
Guam EPA	(671) 635-9500 or (671) 475-1658

The relevant AS BMPs that provide suggestions for handling spills and leaks as they may potentially occur while conducting a specific activity are described in Section 4.2 and fact sheets are located in Appendix B. PAG personnel should also refer to and comply with spill prevention and response procedures outlined in the facility's SPCC plan, which is maintained onsite in the same location as this document.

4.1.5 Erosion and Sediment Control

Erosion concerns can be divided into two broad categories:

(1) Erosion due to active construction projects, and

(2) Chronic or nuisance eroding areas due to inadequate conveyance, steep slopes, erodible fills, etc.

The first category of erosion potential is associated with various development projects being actively constructed or planned on facility property. For each project, an approved sediment and erosion control plan will need to be developed and approved by the local or state regulatory agencies. These plans will identify the specific control measures that will be in place during construction to minimize erosion and sedimentation. At present there are no sites of construction-related erosion at PAG facility areas covered by this SWPPP.

The second category of erosion or sedimentation problems involves areas that may experience nuisance erosion due to inadequate conveyance, steep slopes, or erodible fills. No significant visible erosion was identified during site inspections.

The MSGP requires that at a minimum, facilities must implement flow velocity dissipation devices at outfall locations to minimize the potential for erosion. However, the stormwater outfalls at the PAG EQMR facility discharge directly into Apra Harbor from storm drainage pipes embedded in the retaining seawall, or sheet flow from pavement directly to the surface waters of Apra Harbor. Stormwater discharging from the outfalls does not come into contact with any natural or manmade feature with potential to erode prior to entering the harbor. Furthermore, water depths at the point of discharge are upwards of 30 feet, thereby posing no risk for erosion of the harbor floor.

Due to the unique configuration of the stormwater outfalls at the site, flow velocity dissipation devices do not serve a practical function. Therefore, flow velocity dissipation devices have not been installed.

In an effort to minimize discharge of sediment mobilized by stormwater runoff at the site, the port has incorporated grit traps into the design of the newly installed coalescing media OWSs located on the stormwater drainage lines in Drainage Area 1 and Drainage Area 2. The vast majority of stormwater in each of these drainage areas passes through the OWSs, effectively capturing sediment in the grit traps prior to stormwater discharge. The port will continue to evaluate sedimentation through the periodic inspection program and will identify and implement additional BMPs, if necessary. Further information regarding the OWSs is presented in Section 4.1.6

4.1.6 Management of Stormwater Runoff

A typical system of devices and facilities to manage stormwater runoff includes catch basins, underground chambers, detention basins, wet ponds, OWSs, and oil/grit chambers. The various facilities and devices provide different types of stormwater quality and quantity management. For example, a typical stormwater basin may be designed to provide quantity management for attenuating peak discharges and targeting pollutants like sediment and phosphorus from paved areas, whereas an OWS is utilized to remove petroleum from lower flows through the drainage systems in maintenance areas.

Structural BMPs in place at the PAG EQMR facilities include an equipment wash rack, stormwater diversion measures, and OWSs.

As part of the port modernization program, an equipment wash rack has been installed in the northeast corner of the EQMR facilities to support vehicle and equipment washing while minimizing the potential for pollutants from these activities to impact stormwater discharge (Figure 3 of Appendix A). The wash rack is designed to contain all associated wash water and prevent stormwater run-on/runoff. The system uses a selfcontained wash water recycling system that is periodically inspected and maintained by a service contractor.

Stormwater diversion measures are currently used to reduce exposure of stormwater to potential pollutants. Diversion measures at the site include impervious walls, curbing, and grading around secondary containment and material storage areas. The facility also uses storm drain inlets and an underground conveyance system to direct stormwater flow.

Coalescing OWSs have been integrated the stormwater drainage lines in Drainage Area 1 and Drainage Area 2 in order to remove potential petroleum contamination prior to stormwater discharge from Outfall 001 and Outfall 002 (Figures 2 and 3 of Appendix A). The OWSs are periodically inspected and maintained by a service contractor in accordance with the manufacturer's specifications.

4.1.7 MSGP Sector-Specific Non-Numeric Effluent Limits

Sector-specific technology-based effluent limits are defined for the PAG EQMR facilities industrial sector (Subsector Q1). Those additional requirements that apply to the site

have been incorporated into facility operations, and although generally discussed throughout this document, these specifically include the following:

Good Housekeeping Measures

- Painting Area. Containment measures (plastic barriers/tarpaulins) have been implemented to minimize overspray and potential runoff from painting operations. At least once per month stormwater conveyances and inlets will be cleaned of deposits of debris and paint chips.
- Material Storage Areas. All containerized materials (e.g., fuels, paints, solvents, waste oil, antifreeze, batteries) are labeled and stored in protected, secure locations away from drains. Outdoor storage areas are managed appropriately to minimize the potential for contamination of precipitation or surface runoff from storage areas. Inventory control measures will be used to limit the quantity of potentially hazardous materials kept onsite.
- Equipment Maintenance and Repair Areas. Minimize the contamination of precipitation or surface runoff from equipment maintenance and repair. To the extent practical, perform all maintenance activities indoors. Stormwater runoff from the EQMR area is treated through the use of oil water separators.
- *Material Handling Area.* Minimize contamination of precipitation or surface runoff from material handling operations and areas. Implement spill and overflow protection whenever possible during fueling activities. Perform paint and solvent mixing in designated areas and under cover whenever possible.

Employee Training. The following additional sector-specific employee training topics must be included in the Pollution Prevention Training discussed in Section 4.1.8: used oil management, spent solvent management, spill prevention and control, fueling procedures, general good housekeeping practices, painting procedures, and used battery management.

Preventative Maintenance. The preventive maintenance program will include testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters, and shall also include timely inspection and maintenance of stormwater management devices (secondary containment areas, storm drain inlets, oil/water separators, and the equipment wash rack).

4.1.8 Pollution Prevention Training

Training is necessary to ensure that PAG employees are aware of their impact to stormwater, their responsibilities to prevent pollution, and methods to control such pollution release. Training sessions are held annually for PAG maintenance staff. Topics covered during training include, but are not limited to:

- Purpose of SWPPP, requirements, and contents
- Spill prevention and response procedures
- Good housekeeping practices
- Preventative maintenance
- Material management practices
- Equipment washing procedures
- Recordkeeping and reporting
- Additional training topics identified in Section 4.1.7

All training is organized and coordinated through the P2 Team annually. Staff will be alerted by the P2 Team in advance of the training session to ensure full participation. A copy of the attendance sheet and topics covered will be maintained on site.

Other training sessions will be held as needed for members of the P2 Team or others to address specific topics of interest. Topics for such training sessions may include basic concepts of pollution prevention and baseline BMPs (for new P2 Team members); site-specific BMPs; and proper use and maintenance of stormwater management systems and structures. Training on these topics will be scheduled on an as-needed basis by the P2 Team Leader in coordination with the P2 Team.

4.1.9 Non-Stormwater Discharges

Inspection and elimination of unauthorized non-stormwater discharges is discussed in Section 3.6. To ensure continued prevention and elimination of non-stormwater discharges from the site, a BMP factsheet has been created for this Baseline BMP and is located in Appendix B (BL-1).

4.1.10 Waste, Garbage, and Floatable Debris

As part of daily operations and general good housekeeping practices, all employees will routinely inspect and sweep their work areas to ensure waste materials, garbage, or other floatable debris are not permitted to accumulate. Garbage receptacles are located throughout the site and shall be kept with their lid closed to minimize contamination of runoff. Garbage bins are maintained and regularly emptied by a service contactor.

4.1.11 Recordkeeping and Internal Reporting Procedures

Recordkeeping is an important aspect of determining the long-term history and practices at a facility. It is also necessary to prove a facility is in compliance with local, state, and Federal laws and programs. A template for additional documentation requirements is provided in Appendix C.

In addition items listed in Appendix C, records will be maintained for the following:

- Current inventory of materials used onsite
- Records of the routine site inspections
- Reports of spills
- Records of annual and additional stormwater training sessions.

4.2 ACTIVITY-SPECIFIC BMPS

In addition to the baseline BMPs, the P2 Team and staff will consider their individual activities and the techniques that are available to aid in reducing stormwater pollution. The following AS BMPs are provided in a series of fact sheets in Appendix B:

- BMP Sheet AS1 Vehicle and Equipment Maintenance
- BMP Sheet AS2 Vehicle and Equipment Fueling
- BMP Sheet AS3 Vehicle and Equipment Washing, Cleaning, and Degreasing
- BMP Sheet AS4 Outdoor Storage of Waste and Materials
- BMP Sheet AS5 Waste/Garbage Handling and Disposal
- BMP Sheet AS6 Building and Grounds Maintenance
- BMP Sheet AS7 Aboveground Storage Tank Management

All AS BMPs listed above apply to the PAG EQMR facilities.

4.3 SITE-SPECIFIC AND STRUCTURAL BMPS

In some situations, special practices may be necessary to prevent pollution based on the specific stormwater management structure or a unique site design or practice. In general, the manufacturer of physical structures, such as sand traps and storm filters, can provide documentation for proper maintenance and recommended practices to prevent the release of pollutants to stormwater.

P2 Team members should continue to assess individual areas and processes to determine the need for different or additional BMPs.

The EPA Guidance specifically identifies Site-Specific BMPs for the following items:

Flow Diversion Practices
 Stormwater Conveyances
 Diversion Dikes
 Graded Areas and Pavements

> Exposure Minimization Practices

Containment Dikes Curbing Drip Pans Collection Basins Sumps Covering Vehicle Positioning Loading/Unloading by Air Pressure/Vacuum

Mitigative Practices

Sweeping Shoveling Excavation Practices Vacuum/Pump Systems Sorbents Gelling Agents

> Other Preventive Practices

Preventive Monitoring Dust Control Signs and Labels Security Area Control Procedures Equipment Washing

Sediment and Erosion Prevention
 Vegetative Practices
 Structural Erosion Prevention and Sediment
 Control Practices

Infiltration Practices
 Vegetated Filter Strips
 Grassed Swales
 Level Spreaders
 Infiltration Trenches
 Porous Pavements/Concrete Grids and
 Modular Pavement

Ensuring that maintenance and operations personnel are aware of maintenance and use requirements prior to installation is essential for the successful operation of stormwater management structures. As needed, training on the correct use and

maintenance of stormwater management structures will be included in the annual P2 training, or will be separately scheduled (see Section 4.1.8).

4.4 BMP IMPLEMENTATION PROGRAM

4.4.1 Scheduling of Implementation

The P2 Team is responsible for implementing the schedule for the goals, reports, activities, and BMPs described above. BMPs will be distributed to the relevant maintenance staff and PAG offices as needed. The P2 Team will meet periodically to identify the need for new BMPs and schedules for their implementation. Annual P2 training is scheduled as described in Section 4.1.8.

5.0 STORMWATER MONITORING AND REPORTING

This section of the SWPPP describes the stormwater monitoring requirements for the PAG EQMR facilities.

5.1 BENCHMARK MONITORING

Benchmark monitoring must be conducted quarterly for the first four full quarters of permit coverage. Monitoring periods are summarized as follows:

- Monitoring Period 1 October 1 through December 31, 2015
- Monitoring Period 2 January 1 through March 31, 2016
- Monitoring Period 3 April 1 through June 30, 2016
- Monitoring Period 4 July 1 through September 30, 2016

One sample will be collected from each monitored outfall (Outfall 001 and Outfall 002), and will be analyzed for the following parameters:

Parameter	Benchmark Monitoring Concentration	
Total Aluminum	0.75 mg/L	
Total Iron	1.0 mg/L	
Total Lead	0.21 mg/L	
Total Zinc	0.09 mg/L	

Table 5-1: Quarterly Benchmark Monitoring Criteria

As described in Section 3.2.3, Outfall 003 is considered substantially identical to Outfall 001. Therefore, benchmark monitoring samples will not be collected from Outfall 003.

5.1.1 Benchmark Monitoring Reports

Monitoring data must be reported to the EPA in accordance with Section 7.4 of the MSGP. Data must be submitted to EPA using the EPA's NetDMR system (available at <u>www.epa.gov/netdmr</u>) no later than 30 days after receiving analytical results for all outfalls monitored during the reporting period.

Refer to Section 6.2.1.2 of the MSGP for additional guidance regarding the benchmark monitoring program and to determine if continued monitoring is required.

mg/L = milligrams per liter

5.1.2 Benchmark Monitoring Procedure

Benchmark monitoring samples will be collected by the sampling team, which shall at minimum consist of one member of the P2 Team and/or a qualified contracted professional. Stormwater sampling should occur during measurable storm events, which are defined as a storm event that results in an actual discharge from the site and occurs at least 72 hours after the previous measurable storm event. The 72-hour storm interval does not apply if you can document that less than a 72-hour interval is representative for local storm events during the monitoring period. National Weather Service forecasts can be used as a planning tool for gauging storm events.

Sampling will be performed using the following equipment:

- Sample bottles, sample cooler with ice
- Rope and bucket to lower and collect discharge water from the outfall
- Measuring glass and a watch to calculate the flow rate
- Disposable gloves
- Field notebook, marking pen, and chain of custody form

Once a rainfall has been determined to result in a discharge and there has not been a measurable storm event in the last 72 hours, the sampling team should conduct sampling activities.

Personnel shall collect one grab sample for analysis during the first 30 minutes of the discharge. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample must be collected as soon as practicable and documentation must be kept with the SWPPP explaining why it was not possible to take samples within the first 30 minutes. Samples can be sampled directly into the sample bottles. Alternatively, a food grade high density polyethylene bucket or other suitable container can be lowered down to the outfall and filled with discharge water and then used to fill the sample bottles. This bucket must be decontaminated between each sampling event. Sample bottles will be labeled and placed in a cooler with ice. The team members will record the time that the rain ceased in the field notebook and take the samples to the laboratory for analysis.
All sample containers will have a label that is placed on the side of the container. Sample container caps should not be labeled. The labels will include the following information:

- Date
- Time
- Collector
- Sample Number (i.e. SP-A or SP-B)
- Sampling Site (PAG Maintenance Facilities)
- Sample Type (i.e. grab)
- Preservative used (i.e. ice)
- Tests Required (indicated on chain of custody)

A chain of custody form shall be properly filled out and signed by the sampling personnel to ensure sample integrity.

5.2 IMPAIRED WATERS MONITORING

Apra Harbor is currently listed as an impaired water body due to the presence of polychlorinated biphenyls (PCBs) in fish tissue. In accordance with Section 6.2.4 of the MSGP, monitoring of impaired waters must be conducted once annually at each of the two monitored outfalls. The annual monitoring period begins in the first full quarter of permit coverage.

One sample will be collected from each monitored outfall (Outfall 001 and Outfall 002), and will be analyzed for the following:

• Total PCBs

As described in Section 3.2.3, Outfall 003 is considered substantially identical to Outfall 001. Therefore, impaired waters monitoring samples will not be collected from Outfall 003.

Currently, there are no EPA-approved or established Total Maximum Daily Load Waste Load Allocation values for Apra Harbor, and PCBs are not expected to be present in stormwater discharges covered under this SWPPP. In accordance with Section 6.2.4.1 of the MSGP, monitoring for total PCBs can be discontinued if the contaminant is not detected in the stormwater discharge monitoring results. Refer to Section 6.2.4 of the MSGP to determine if continued monitoring is required. Section 6.2.4 of the MSGP also provides additional guidance regarding documentation and records necessary to support this determination.

5.2.1 Impaired Waters Monitoring Reports

Impaired waters monitoring data must be reported to the EPA in accordance with Section 7.4 of the MSGP. DMRs must be submitted to EPA using the EPA's NetDMR system (available at <u>www.epa.gov/netdmr</u>) no later than 30 days after receiving analytical results for all outfalls monitored during the reporting period.

5.2.2 Impaired Waters Monitoring Procedure

Collection of stormwater samples for impaired waters monitoring shall be conducted in accordance with the procedures outlined in Section 5.1.2 of this document. To minimize the burden of sample collection, the impaired waters monitoring samples can be collected at the same time as one of the quarterly benchmark monitoring samples.

5.3 ANNUAL REPORT

An annual report containing information from the previous calendar year must be submitted to the EPA by 30 January for each year of permit coverage. Annual reports must be submitted via EPA's eReporting tool, which can be accessed at:

http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm

Refer to Section 7.5 of the MSGP for additional information and guidance regarding preparation and submittal of the annual report.

6.0 INSPECTIONS

6.1 ROUTINE FACILITY INSPECTIONS

Regular visual inspections are the most effective way to ensure that all the elements of the SWPPP are in place and effective at preventing stormwater pollution. Routine facility inspections shall occur at least quarterly and will include all areas of the facility, but shall specifically focus on the equipment washing area, equipment maintenance and repair areas, painting areas, material storage areas (indoor and outside), material handing/fueling areas, and storm drain inlets and conveyances. Due to the higher risk for pollutant discharge associated with equipment washing activities, the equipment wash rack should be inspected at least monthly to ensure potential issues are identified and corrected in a timely manner.

Routine inspections must be conducted by qualified personnel and include one member of the P2 Team. Routine inspections are tentatively scheduled to occur during the months of February, May, August, and November. Inspections of the wash rack area will occur monthly. At least one such inspection per year must occur during stormwater discharge.

Although not reported to the EPA, documentation of routine inspections must be maintained onsite and made available upon request. Documentation shall include the following:

- The inspection date and time;
- The name(s) and signature(s) of the inspector(s);
- Weather information and a description of any discharges occurring at the time of the inspection;
- Any previously unidentified discharges of pollutants from the equipment and maintenance facilities;
- Any evidence of, or the potential for, pollutants entering the drainage system;
- Observations regarding the physical condition of the outfalls and the surrounding area, including any evidence of pollutants in the discharge and/or the receiving water;
- Any control measures needing maintenance or repairs;
- Any failed control measures that need replacement;
- Any incidents of noncompliance observed; and
- Any additional control measures needed to comply with the permit requirements.

6-1

6.2 QUARTERLY VISUAL STORMWATER ASSESSMENTS

One stormwater sample from each outfall must be collected quarterly for visual assessment. These samples should be representative of the stormwater discharge and must be made:

- Of a sample in a clean, clear glass, or plastic container, and examined in a welllit area;
- Of samples collected within the first 30 minutes of an actual discharge from a storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample must be collected as soon as practicable after the first 30 minutes and documentation must be made noting why it was not possible to take samples within the first 30 minutes; and
- Of samples collected from discharges that occur at least 72 hours (3 days) from the previous discharge.

The sample will be visually inspected for the following characteristics:

- Color;
- Odor;
- Clarity;
- Floating solids;
- Settled solids;
- Suspended solids;
- Foam;
- Oil sheen; and
- Other obvious indicators of stormwater pollution.

Documentation of the visual sample assessments must be maintained onsite with the SWPPP. Documentation will include the following:

- Sample location(s);
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff);

- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination;
- If applicable, why it was not possible to take samples within the first 30 minutes.

If the results of the visual assessment identify signs of stormwater pollution, corrective action must be implemented in accordance with Part 4 of the MSGP. Sample visual assessment forms are located in Appendix C.

6.2.1 Visual Assessments of Substantially Identical Outfalls

As described in Section 3.2.3, Outfall 003 is considered substantially identical to Outfall 001. Therefore, quarterly visual assessments may be conducted at just one of these two outfalls, with the report identifying that the results also apply to the substantially identical outfall. Visual assessments must be performed on a rotating basis between each substantially identical outfall throughout the period of permit coverage.

Refer to Section 3.2.3 of the MSGP for additional guidance regarding visual assessments of substantially identical outfalls.

7.0 DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

7.1 DOCUMENTATION REGARDING ENDANGERED SPECIES

Consultation of the United States Fish and Wildlife Service and National Marine Fisheries Service was performed in 2012 as part of the Environmental Assessment conducted to support PAG facility expansion activities. Potential impacts to endangered species as a result of pollutant discharges were evaluated during the consultation and determined to be insignificant. Additionally, no critical habitat was identified in the vicinity of the site. Supporting documentation is provided in Appendix E.

7.2 DOCUMENTATION REGARDING HISTORIC PROPERTIES

From 2010 to 2015, PAG expanded their facilities and worked closely with the State Historic Property Office to establish the absence of historic structures. Stormwater discharges and stormwater control measures at the facility will therefore not impact historic properties. Supporting documentation is provided in Appendix F.

7-1

8.0 CORRECTIVE ACTIONS

Corrective actions must be implemented in accordance with Part 4 of the 2015 MSGP. The following provides a summary of conditions requiring corrective action and procedures for response. Refer to Part 4 of the MSGP for additional guidance.

8.1 CONDITIONS REQUIRING SWPPP REVISIONS

If the following events occur, PAG will revise this SWPPP to meet effluent limits:

- Unauthorized release or discharge of non-stormwater
- Discharge violates numeric effluent limits depicted in this SWPPP
- Non-numeric depicted in this SWPPP are not met
- A required control measure was not installed, was incorrectly installed, or not properly operated or maintained
- Visual assessment yields evidence of stormwater pollution such as color, odor, floating solids, settled solids, suspended soils, etc.

8.2 CONDITIONS REQUIRING SWPPP REVIEW

If the following events occur, PAG will review the SWPPP to determine if modifications are necessary:

- Construction, changes in operation, or maintenance at the facility.
- Average of four quarterly sampling results exceeds an applicable benchmark.

8.3 CORRECTIVE ACTION DEADLINES

If corrective action is required, PAG shall take immediate action to prevent events described in Section 8.1.

Subsequent actions must be implemented within 14 calendar days of discovery of the event. If this is not feasible, then PAG must document why it is infeasible and provide a revised schedule within the allocated 14 calendar days. The revised schedule can be no longer than 45 days. The corrective action must be documented as follows:

- Description of event
- Date of event
- Description of immediate actions

• Statement, signed and certified that actions are complete per schedule requirements

Documentation of any of the conditions listed in Sections 8.1 or 8.2 must be made within 24 hours of becoming aware of the condition. Such documentation must be made available to the EPA upon request and will also be summarized in the annual stormwater report. Refer to Section 4.4 of the MSGP for additional guidance regarding corrective action documentation.

9.0 REFERENCES AND INFORMATION SOURCES

- IP&E Holdings, LLC (IP&E). 2013. Spill Prevention, Control, and Countermeasure Plan, IP&E F-3 Dock Facility. October.
- U.S. Environmental Protection Agency (EPA). 2009. Developing Your Stormwater Pollution Prevention Plan: A Guide for Industrial Operators. EPA 833-B-09-002.
- U.S. Environmental Protection Agency (EPA). 2015. *Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP)*

APPENDICES

A. FIGURES

- 1. General Location Map

- Drainage Area 1 Detail
 Drainage Area 2 Detail
 Drainage Area 3 Detail

The following figures are available upon request and clearence from Port Authority of Guam Police, contact (671) 477-5931:

Figure 1. General Location Map of Facilities Figure 2. Drainage Area-1 Detail Figure 3. Drainage Area-2 Detail Figure 4. Draingae Area-3 Detail

B. BMP FACT SHEETS

	Port Authority of Guam	
Equipment Maintenance and Repair Facility SWPPP		
BL BMP 1	ELIMINATION OF NON-STORMWATER DISCHARGE TO STORM DRAIN	
PURPOSE	Existing discharges: Eliminate non-stormwater discharges to the stormwater collection system.	
	Non-storm water discharges can be classified as follows: 1) Activity-based (subtle), and 2) Overt	
	(hard pipe connection). Activity-based non-stormwater discharges may include: wash water, and	
	spillage. Overt non-storm water discharges may include: building floor drains and sanitary	
	wastewater. Prevention of illicit connections: Prevent improper physical connections to the	
	storm drain system from sanitary sewers, floor drains, and washbays through education,	
	developing project approvals conditions, and performing both construction phase and post-	
	APPROACH TO FUTURE FACILITIES AND UPGRADES Design of New Egcilities and Existing Egcility upgrades	
• Pe	rform inspections during the design review and project construction phases to ensure drainage,	
Wa	stewater, and water supply connections are correct (no cross connections or micit nookups).	
• De	velop a set of as-built prints for all projects. Reep a set of prints at the facility.	
• De	sign projects to include adequate waste repositories at locations field waste origin points.	
• Pro	processing painting machanical maintenance, chemical/fuel storage and delivery material handling,	
	ste bandling and storage, and lavatory service that may produce non-stormwater discharges	
vva	ste handling and storage, and lavatory service that may produce non-stormwater discharges.	
	APPROACH TO EXISTING FACILITY ACTIVITIES	
• • •	Operational Considerations	
Contin	gency Response:	
 De set 	velop and implement a Spill Prevention Control and Countermeasure (SPCC) plan under guidelines forth in 40 CFR, Section 112.3(a), (b).	
• No	tify the Team Leader in the event of a spill (any size).	
• Ma	intain adequate supplies of spill response equipment and materials in accessible locations near	
are	eas where spills may be likely to occur (i.e. near the scale house, entrances/exits, compaction area	
an	d areas where large quantities of hazardous materials are stored).	
Inspec	tion and Training:	
• Ins	pect waste containers and storage tanks, including any piping and appurtenances, on a routine	
bas	sis for leaks, drip marks, and discoloration and proper closure seal.	
• De	velop employee training programs which emphasize the proper disposal procedures for	
op	erations-derived wastes.	
• Pro	by de annual employee training in the following areas: spill prevention and response, storm waste	
po		
	REQUIREMENTS	
• Ca wa	ter discharges.	
LIMITATIONS		
• Ac	tivity-based (subtle) non-storm water discharges from a particulate facility are typically sporadic,	
tra	nsient, and often require frequent inspections to detect.	
RECOMMENDATIONS		
Use dry cleaning procedures.		
implement	regular training of start in materials disposal, and spill response.	

	Port Authority of Guam	
Equipment Maintenance and Repair Facility SWPPP		
BL BN	MP 2 EMERGENCY SPILL CLEANUP PLANS	
PURP	POSE Prevent or reduce the discharge of pollutants to storm water resulting from spills of	
	petroleum products or other materials.	
-	General Approach	
Owners	and operators of facilities that store, process, or refine oil or oil products may be required by	
federal	law (40CFR 112) to develop and implement a Spill Prevention, Control, and Countermeasure	
(SPCC) P	Plan. Emergency spill cleanup plans should include the following information:	
•	A description of the facility including the nature of the facility activity and the general types and	
	quantities of chemicals stored at the facility.	
•	A site plan showing the location of chemical storage areas, fire hydrant location, and the	
	location and description of any devices used to contain spills such as positive shut-off control	
	valves.	
•	Notification procedures to be implemented in the event of a spill, such as keep company	
	personnel and local, state, and federal agencies.	
•	Instructions regarding cleanup procedures.	
•	Designated personnel with overall spill response cleanup responsibility.	
	APPROACH TO EXISTING FACILITY ACTIVITIES	
	Operational Considerations	
Operati	onal Considerations:	
•	Maintain an inventory of appropriate cleanup materials on-site (absorbent material,	
	solvent/cleaning material) and store spill kits near the Maintenance Building, materials transfer	
	points, material storage areas, and other areas where spills are likely.	
Conting	ency Response:	
•	If the spilled material is of a reportable quantity, the EC should call:	
	 National Response Center at 1-800-424-8802 	
	 U.S. Coast Guard Guam Chapter Prevention Department at 671-355-4937 (if spill reaches 	
	Apra Harbor/Philippine Sea)	
	• Guam EPA (GEPA) Emergency Response pager number is 671-635-9500 and their main line is	
	671-475-1658 (if spill reaches State Water).	
•	A written notification must also be submitted to the GEPA Clean Water contact (671-475-1628)	
	no later than five (5) days following the violation and a written notification must be submitted	
	to the Guam Department of Health Director's Office at 671-735-7173 no later than thirty (30)	
	days following the discovery of the release. Containment and cleanup of spills shall begin	
	immediately.	
	REQUIREMENTS	
•	Capital and operations and maintenance (O&M) costs should be small to moderate (locate spill	
	kits containing absorbent material and cleaning solvent at facility).	
•	Maintenance costs include periodic training and equipment replacement.	
	LIMITATIONS	
•	Spills occurring after work hours may go undetected until impacting off-site areas.	
	RECOMMENDATIONS	
•	Train staff in spill response.	
•	Locate spill kits near the Maintenance Shop, Fueling Area, material storage areas, and other	
	area where spill are likely.	

	Port Authority of Guam	
	Equipment Maintenance and Repair Facility SWPPP	
BL BMP 3	STORM WATER POLLUTION PREVENTION EDUCATION	
PURPOSE	Prevent or reduce the discharge of pollutants to stormwater through implementing an	
	education program.	
	APPROACH TO FUTURE FACILITIES AND UPGRADES	
	Design of New Facilities and Existing Facility upgrades	
 Incorp 	orate proactive stormwater management features into projects such as, decreased	
imperv	rious areas, infiltration Best Management Practices (BMPs) biofilters, oil/water	
separa	tors, etc.	
	APPROACH TO EXISTING FACILITY ACTIVITIES	
	Operational Considerations	
Contin	gency Response:	
 Train e 	mployees in the use of spill response equipment and materials.	
Inspec	tion and training:	
 Perfori 	m and document in a log book, inspections of work areas, waste storage facilities,	
mainte	nance areas, and contractor projects to examine compliance with BMPs. Follow up with	
additic	nal training or enforcement as required. Incorporate inspection findings into subsequent	
trainin	g efforts.	
 Implen 	nent regular stormwater pollution prevention education programs:	
o Pro	pmote the proper storage and use of all materials, chemicals, and equipment inside a	
bu	ilding, garage, or covered area. Dispose of materials in a proper and timely fashion.	
o Pro	pmote the use of environmentally safe products.	
o Pe	rform all vehicle and equipment washing in contained washing area.	
o En	courage good housekeeping practices on site.	
o Inc	rease awareness of the detrimental environmental impacts that result when fuel	
an	tifreeze, pesticides, lubricants, detergent, paints and other wastes are dumped onto the	
gro	ound or into storm drains.	
o Pro	pmote source reduction and recycling of waste materials.	
o Inc	rease awareness of what is and what is not allowed to enter storm drains.	
	REQUIREMENTS	
 Capital 	• Capital and operation and maintenance (O&M) costs are minimal for educational programs.	
 Educat 	• Educational programs need to be ongoing. Information and training must be disseminated at	
regular intervals.		
LIMITATIONS		
• The su	ccess of educational programs is difficult to measure. Acceptance and awareness are	
critical	factors.	
RECOMMENDATIONS		
Condu	ct annual training of staff in proper materials handling and disposal.	

Port Authority of Guam		
Equipment Maintenance and Repair Facility SWPPP		
AS BMP 1	VEHICLE AND EQUIPMENT MAINTENANCE	
PURPOSE	Prevent or reduce the discharge of pollutants to storm water drains from vehicles and	
	APPROACH TO FOTORE FACILITIES AND OPGRADES Design of New Facilities and Existing Facility ungrades	
Provide	covered maintenance areas when designing new facilities or ungrading existing facilities	
Utilize	indoor areas overhangs or nortable covers	
Locate	maintenance areas so minimal quantities of runoff cross the site	
 Include 	appropriate storm water quality structures (oil/water separators, sumps, first flush	
diversio	on hasing etc.) in the design of outdoor maintenance and storage areas	
	APPROACH TO EXISTING FACILITY ACTIVITIES	
	Operational Considerations	
Implement the	following to the maximum extent practicable:	
Good Houseke	eping	
 Use dri 	p pans to collect fluid leaks.	
Use ab	sorbent materials at potential problem areas.	
Adequa	ately collect/remove absorbent materials from area after use and dispose of them in an	
approp	riate manner.	
 Perform 	n all vehicle maintenance within the Maintenance Shop. All byproducts from that	
mainte	nance (i.e. oil filters, batteries, etc.) should be stored in a covered storage area and	
dispose	ed of in a proper fashion.	
Drain a	nd crush oil filters (and oil containers) before recycling or disposal. Store crushed oil	
filters a	and empty lubricant containers in a leak-proof container.	
 Label s waste. 	torm drain inlets ("Don't Dump" or "Drains to Bay") to indicate they are to receive no	
 Employ work a 	only dry cleaning in the buildings and work areas (i.e. sweeping). Do not hose down reas.	
 Drain a equipm 	nd properly dispose of all fluids and remove batteries salvaged from vehicles and nent.	
Drain p area	 Drain parts and equipment of all fluids. Store in secondary containment within covered storage 	
Recycle	or properly dispose of the following: grease, oil, antifreeze, brake fluid, cleaning	
solutio	ns, hydraulic fluid, batteries, transmission fluid, and filters. If materials are stored on-site	
prior to	o disposal, keep in labeled containers appropriately.	
Use bio	degradable products and substitute materials with less hazardous properties where	
feasible	2.	
Mainta	in and organized inventory of materials used in maintenance areas.	
Physical Site Usage		
Store n	nechanical parts and equipment that may yield even small amounts of contaminants	
(e.g., o	il or grease) under cover and away from drains.	
Store v	ehicles and equipment awaiting maintenance in designated areas only. Vehicles	
awaitir	g maintenance should be stored under cover if possible.	
REQUIREMENTS		
Canital	investment may be required depending on the facility layout	
	investment may be required depending on the facility fayout.	

• Operation and maintenance (O&M) investment is not expected to be significant.

LIMITATIONS

- Size, space and time limitations may preclude work from being performed indoors.
 RECOMMENDATIONS
- Perform all vehicle maintenance indoors. Keep all vehicles awaiting maintenance under cover as much as possible
- All byproducts of vehicle and equipment maintenance will be labeled, stored under cover, and disposed of in a proper and timely manner.
- Use biodegradable and eco-friendly materials as much as possible. Do not use materials containing phosphorus and minimize chlorine use.
- Train staff regularly in materials handling, pollution prevention, and spill response.

Port Authority of Guam			
Equipment Maintenance and Repair Facility SWPPP			
AS BMP 2	VEHICLE AND EQUIPMENT FUELING		
PURPOSE	Prevent fuel spills and leaks, and reduce their impacts to stormwater.		
	APPROACH TO FUTURE FACILITIES AND UPGRADES		
	Design of New Facilities and Existing Facility upgrades		
 Design 	fueling areas to prevent the run-on of storm water and the runoff of spills by employing		
the follo	owing approaches:		
•	Cover the fueling area if possible		
•	Use a perimeter drain or slope the fueling area to a dead-end sump or oil/water		
	separator.		
If storm	water runoff from fueling areas is not collected, install an appropriately-sized oil/water		
separat	or.		
Design	facilities to include secondary containment where required and/or appropriate.		
	APPROACH TO EXISTING FACILITY ACTIVITIES		
	Operational Considerations		
Implement the	following to the maximum extent practicable:		
Good Housekee	ping		
 Perform 	n all vehicle fueling on secondary containment pad or under cover whenever possible to		
minimiz	te the discharge of fuel to the surrounding environment.		
Use spil	l and overflow protection whenever possible		
 Fuel pu 	mps intended for vehicular use should be posted with signs stating "No topping off" to		
prevent	overflow.		
RECOMMENDATIONS			
Monito	r fueling area and fueling truck to ensure that no leaking is occurring.		
Locate :	spill kits near the fueling station.		
Train st	aff in spill response.		

	Port Authority of Guam	
Equipment Maintenance and Repair Facility SWPPP		
AS BMP 3	VEHICLE AND EQUIPMNET WASHING, CLEANING, AND DEGREASING	
PURPOSE	Prevent or reduce the discharge of pollutants to storm water drains from vehicles and	
	equipment washing, and cleaning and degreasing activities.	
	APPROACH TO FUTURE FACILITIES AND UPGRADES	
	Design of New Facilities and Existing Facility upgrades	
Outdoo	or washing operations should not occur without the following design characteristics:	
0	Paved area (Portland cement concrete pavement resists degradation from petroleum	
	products)	
0	Bermed and/or covered to prevent contact with storm water.	
0	Sloped to facilitate wash water collection.	
0	Wash water should be collected in a dead-end sump for removal to off-site treatment or	
	discharged to the sanitary sewer through a permitted connection.	
0	Drainage piping serving uncovered was areas should be equipped with control valves	
	that are easy to operate from the surface and can direct discharges wither to the storm	
	drain system or sanitary sewer as appropriate.	
0	Wash areas should be clearly identified with appropriate signage.	
0	Equip with an oil/water separator designed to operate under storm water runoff	
	conditions to treat storm water volumes and flow rates.	
	APPROACH TO EXISTING FACILITY ACTIVITIES	
	Operational Considerations	
Implement the	following to the maximum extent practicable:	
Good Housekee	ping	
 Provide cleaning 	secondary containment, and cover it possible, for containers of washing and steam g additives.	
 Use inle 	t covers over catch basins, spill berms or spill mats to control the discharge of wash	
water.		
 Use bio 	degradable phosphate-free detergents.	
Keep w	ash area clean and free of waste.	
 Include 	proper signage to prohibit the discharge of waste oils into the drains.	
Collect	and discharge wash water to an approved treatment facility.	
	REQUIREMENTS	
Capital	costs vary depending on measures implemented.	
 Operati 	on and maintenance (O&M) costs increase with capital investment.	
	LIMITATIONS	
Steam (leaning and de-greasing operations can generate significant pollutant concentrations	
that ma	v require permitting, monitoring, pretreatment, and inspections.	
RECOMMENDATIONS		
Perform	all vehicle washing within the designated washing area.	
Do not	use phosphate or chlorine based detergents.	
20.00		

Port Authority of Guam		
Equipment Maintenance and Repair Facility SWPPP		
AS BMP 4	OUTDOOR STORAGE OF WASTE AND MATERIALS	
PURPOSE	Prevent or reduce the discharge of pollutants to stormwater from outdoor storage	
	areas for waste or materials (i.e. fuel, chemicals, bagged solids, contaminated soil, bulk	
	storage, etc.). Outdoor material storage is discouraged. Storage of materials in	
	designated areas indoors is preferred.	
	APPROACH TO FUTURE FACILITIES AND UPGRADES	
	Design of New Facilities and Existing Facility upgrades	
Require	the appropriate use of water quality control structures for fuel, waste, and chemical	
storage	areas such as berms, detention/retention basins, and sumps. Develop appropriate	
minimu	m performance standards for these water quality control structures and implement a	
reportin	g program to monitor the performance and maintenance of these structures.	
Chemica	al, fuel, oil dispensing sites, and waste collection areas should be covered, if possible.	
 Develop 	standard guidelines for the management of stormwater which collect in secondary	
containi	ment areas.	
	APPROACH TO EXISTING FACILITY ACTIVITIES	
	Operational Considerations	
Implement the f	ollowing to the maximum extent practicable:	
GOOD HOUSEKEE	ping	
Avoid di	spensing from drums positioned norizontally in cradies. Dispensing materials from	
upright	arums equipped with hand pumps is preferred. Always use secondary containment and	
Self Clos	ing spigots it dispensing from nonzontally positioned drums.	
 Store dr containe 	ums and containers on spill containment pallets or other structures to keep the er out of contact with stormwater.	
 Use dru 	m lids and drum-top absorbent pads to prevent rainfall from washing materials and	
drips fro	om the top of containers to the storm drain system.	
 Discharg 	ge collected stormwater from secondary containment areas according to guidelines	
develop	ed by the federal government and applicable state and local regulations.	
Store all	materials in their original containers or containers approved for that use. Ensure that all	
containe	ers are appropriately sealed. Store empty containers in fully enclosed area, under cover,	
or move	e them off-site.	
 Properly 	/ label all containers with information, including their contents, hazards, spill response	
and first	aid procedures, manufacturer's name and address, and storage requirements.	
 Maintai 	n copies of MSDS on file for any material stored and/or handled by the applicator	
 Maintai 	n a spill response plan near the material or waste storage area.	
	REQUIREMENTS	
 Capital a 	and operation and maintenance (O&M) costs will vary widely depending on the size of	
the facil	ity and the necessary controls.	
Store m	aterials under cover as much as possible	
 If mater 	ials have to be stored outdoors, locate the materials to minimize the contact with	
stormwa	ater (i.e. under a cover, on a raised platform, inside secondary containment).	
Locate s	pill kits near the Maintenance Shop, Fueling area, material storage location and other	
areas w	here spills are likely.	
 Regular 	y inspect outdoor waste storage areas to ensure that the containers are not leaking.	
U U		

	Port Authority of Guam
	Equipment Maintenance and Repair Facility SWPPP
AS BMP 5	WASTE HANDLING AND DISPOSAL
PURPOSE	Prevent or reduce the discharge of pollutants to storm water from proper waste
	storage, handling and disposal; reducing waste generation and disposal through source
	reduction, reuse, and recycling; and preventing run-on and runoff from waste
	management areas.
	APPROACH TO FUTURE FACILITIES AND UPGRADES
	Design of New Facilities and Existing Facility upgrades
 Avoid t 	he following characteristics when examining candidate sites for storing wastes:
0	Excessive slope
0	High water table
0	Locations near storm drain inlets
0	Locations near public access area
Waste h	andling and storage areas should be covered.
Develop	standard guidelines for the management of stormwater that collects in secondary
containi	nent areas.
Provide	contained and covered area for hazardous waste collection sites.
	APPROACH TO EXISTING FACILITY ACTIVITIES
	Operational Considerations
Implement the f	ollowing to the maximum extent practicable:
Good Housekee	ping
Perform	regular housekeeping to maintain waste storage areas in a clean and orderly condition.
Recycle	materials whenever possible.
 Inspect 	waste management areas for spills and waste management containers for leaks.
 Ensure t off-site 	hat sediments and waste are prevented from being washed, leached, or otherwise carried
Complete	tely drain containers (e.g. quart oil cans) prior to disposal
Regular	v service waste storage areas to avoid overloaded/ overfilled disposal containers
 Minimiz 	e snills and fugitive losses such as dust or mist from loading areas
Maintai	n a minimal inventory of required chemicals to reduce the magnitude of notential snills
and limi	t waste generation
Eind sub	estitutes for harmful chemicals
Properly	dispose of unusable chemical inventory
e Canital a	and energy and maintenance (OPM) casts for these programs will vary substantially
	and operation and maintenance (Owiv) costs for these programs will vary substantially
depend	
Lazarda	us waste that cannot be rejused or regulady must be dispessed of at a permitted facility
	nsed bazardous waste bauler
by a lice	
a Damili I	
Kegulari	y service waste storage areas to prevent a build-up of accumulated waste.
 Keep all 	garbage dumpsters covered.

	Port Authority of Guam	
Equipment Maintenance and Repair Facility SWPPP		
AS BMP 6	BUILDING AND GROUNDS MAINTENANCE	
PURPOSE	Prevent or reduce the discharge of pollutants to stormwater from building and grounds	
	maintenance by washing and cleaning up with as little water as possible, preventing	
	and cleaning up spills immediately, keeping debris from entering storm drains, and	
	maintaining the storm water collection system.	
	APPROACH TO FUTURE FACILITIES AND UPGRADES	
	Design of New Facilities and Existing Facility upgrades	
 Specify 	low-maintenance structures/features for capital improvements.	
 Incorpo 	rate storm water detention/retention to reduce peak runoff flows and for water quality	
control.		
 Incorpo 	rate design considerations such as leaving vegetation or planting native vegetation to	
reduce	irrigation, fertilizer, and pesticide/herbicide needs.	
	APPROACH TO EXISTING FACILITY ACTIVITIES	
	Operational Considerations	
Implement the	following to the maximum extent practicable:	
Cood Housekaa	ning	
	pillig	
Do Hot	employ any wet cleaning procedures.	
Clean a	hy accumulated trash/debris from stormwater management reatures.	
Regular	iy inspect and service oil/water separators.	
Seek les mainter	 Seek less harmful/toxic products to replace ones currently used for building or grounds maintenance. 	
 Properl 	 Properly dispose of landscape waste, sweepings, and sediments. 	
 Regular techniq 	ly clean paved surfaces that are exposed to industrial activity. Use "dry" cleaning ues.	
	REQUIREMENTS	
Costs w	ill vary depending on the type and size of the facility. Costs of on-site stormwater	
detenti	on/retention facility could be high.	
	RECOMMENDATIONS	
Regularly clean site surfaces using dry techniques.		

Port Authority of Guam		
AS BMP 7	AS BMP 7 ABOVEGROUND STORAGE TANK MANAGEMENT	
PURPOSE	Prevent or reduce the discharge of pollutants to storm water from aboveground	
	storage tanks (ASTs).	
	APPROACH TO FUTURE FACILITIES AND UPGRADES	
	Design of New Facilities and Existing Facility upgrades	
 Use application 	ppropriate and adequate secondary containment and water quality control structures for	
ASTs si	uch as berms, detention/retention basins, and sumps. Minimum requirements for	
perfori	mance structures and reporting program to monitor the performance and maintenance of	
these s	structures are set forth under guidelines in 40 CFR, section 112.7 9c)	
 Provide locatio 	e adequate supplies of spill response equipment and materials in a readily accessible n in close proximity to ASTs/dispensers.	
 Manag 112.8 (e storm water that collects in secondary containment areas as set forth in 40 CFR, section 1).	
 New st regulat 	orage thanks must be properly labeled and permitted in accordance with applicable tions.	
 Obtain 	the necessary permits when handling hazardous or flammable materials, as applicable.	
Provid	e sufficient protection for tanks from vehicles, etc. by providing structural barriers or	
adequa non-m	ate buffer from high traffic areas. A higher degree of protection may be appropriate for etallic ASTs.	
	APPROACH TO EXISTING FACILITY ACTIVITIES	
	Operational Considerations	
 Proper hazard and store 	ly label all ASTs with their contents and capacity. Retain information regarding potential , spill response and first air procedures, tank/piping manufacturer's name and address, prage requirements.	
 Mainta 	in copies of MSDS on file for any materials stored and/or handled by the operator.	
MaintaMainta	in a spill response plan and specifications book near the material or waste storage area. An all necessary permits and keep up-to-date.	
Requir	e adequate supplies of spill response equipment and materials in a readily accessible	
locatio	location in close proximity to ASTs/dispensers.	
Requir	e the use of appropriately trained personnel during AST filing or transferring of material.	
 Mainta 	in records of any testing, repairs and/or problems that have occurred with ASTs.	
RECOMMENDATIONS		
Regula	rly inspect AST's and document.	
 Locate areas v 	spill kits near Maintenance building, Fueling area, material storage locations, and other where spill are likely.	
Train s	taff in spill response.	
_		

C. ADDITIONAL DOCUMENTATION

Populate this appendix as needed using the Additional Documentation Template (Provided in Microsoft Word format for ease of use)
D. NOTICE OF INTENT AND 2015 MULTI-SECTOR GENERAL PERMIT

- Insert copy of NOI and relevant correspondence
 Insert copy of eNOI acknowledgement
 Maintain Electronic Copy of 2015 MSGP Onsite

From:	<u>NeT@epa.gov</u>
To:	jbrown@portguam.com
Cc:	Vanwart, Chris
Subject:	EPA Multi-Sector General Permit (MSGP) Notice of Intent (NOI) Submitted to EPA for 30-Day Review - Port Authority of Guam - Equipment Maintenance and Repair Facilities, NPDES ID: GUR053001
Date:	Thursday, September 03, 2015 6:37:39 PM
Attachments:	SubmittedNewNOIReceipt.pdf

2015-09-04

NeT Submission ID: MSGP-3214

Your Notice of Intent (NOI) requesting coverage for Port Authority of Guam - Equipment Maintenance and Repair Facilities, 1026 Cabras Highway, Suite 201 Piti GU 96925, under EPA's Multi-Sector General Permit (MSGP) has been certified and submitted to the EPA for review. The NPDES ID for this NOI is GUR053001. Your coverage under the MSGP begins at the conclusion of the 30-day waiting period, unless otherwise notified that your coverage has been delayed or denied. You will receive an email informing you once your coverage under the MSGP is active with a copy of the certified NOI attached.

For a copy of the form you submitted, please go to the History tab within NeT, which is accessible from <u>https://cdx.epa.gov/epa_home.asp</u>, and click on the View Receipt button for NeT Submission ID MSGP-3214.

For guidance about this process, please visit:

http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm. For more information about the MSGP, including a copy of the permit, please visit: http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm. If you have specific questions, please contact lee.won@epa.gov; lescure.nasrin@epa.gov; emily@avanticorporation.com; farris.erika@epa.gov; Christiane@avanticorporation.com; bius.catherine@epa.gov.

To access a history of your submissions, go to MyCDX within EPA's Central Data Exchange (CDX) and click on the Submission History tab. To see details about this submission, click on the Search tab within My Submissions, enter the following Submission ID value: _ec79793c-4ded-4a72-bf8a-ca7079ee83df, and click Search.

This is an automated response; please do not reply to this email.



2015 NPDES Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity (MSGP) Forms

United States Environmental Protection Agency 1200 Pennsylvania Ave, NW Washington, DC 20460

Note: This is a "smart form"; as you fill out the form, additional questions will appear that you will need to answer.

Permit Information	
1. What action would you like to take? *	
File a New Notice of Intent Form	
Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in the Facility Operator Information section of this form requests authorization to discharge pursuan Sector General Permit (MSGP) permit number identified in the Permit Information section of this form. Submission of this NOI also constitutes notice that the operator identified in the Facility identified in the Facility Information section of this form. To obtain authorization, you must submit a comp Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage.	t to the NPDES Stormwater Multi- ity Operator Information section plete and accurate NOI form.
Operator Name (Organization Name) *	
Port Authority of Guam	
Operator Name as Noted by the NOI Preparer	
Port Authority of Guam	
 2. Select the state/territory where your facility is located * 3. Is your facility located on Indian Country lands? * GU Yes No 4. Are you requesting coverage as a "federal operator" as defined in Appendix A? * 	◯ Yes

5. Are you a new discharger or a new source as defined in Appendix A? *	O Yes	No
5a. Have stormwater discharges from your facility been covered previously under an NPDES permit? *	• Yes	🔿 No
5aa Provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSCP 2008 or the NPDES permit number if you had coverage under an EPA individual or	ermit *	\bigcirc
GUR05A372		
6. Do you directly discharge to any of the waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding Natural Resource Water) (See Appendix L)? Your project will be considered to discharge to a Tier 3 water if the first water of the US to which you discharge is identified by a state, tribe, or EPA as a Tier 3 water. For discharges that enter a storm sewer system prior to discharge, the first water of the US to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system. *	r 🔿 Yes	• No
7. Does your facility directly discharge to a Federal CERCLA site listed in Appendix P? For the purposes of this permit, a permittee discharges to a Federal CERCLA site if the discharge flows directly into the site through its own conveyance, or through a conveyance owned by others, such as a municipal separate storm sewer system. *	O Yes	• No
8. Has the Stormwater Pollution Prevention Plan (SWPPP) been prepared in advance of filing this NOI, as required? *	• Yes	🔵 No
9. By indicating "Yes", I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges in Part 1.1.3. Any discharges not expressly authorized under the MSGP are not covered by the MSGP and they cannot become authorized by disclosure to EPA and/or a state via this Notice of Intent to be covered by the permit or by any other means (e.g., in the Stormwater Pollution Prevention Plan or during an inspection). If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit. *	• Yes	O No
10. Master Permit Number		
GUR050000		
: Facility Operator Information		
1. Operator Name (Organization Name) *		
Port Authority of Guam		
2. Street *		
1026 Cabras Highway, Suite 201		
3. Supplemental Address		
4. City * 5. State * 6. Zip Code * 7. Facility County or Similar Govt. Subdivision *		
Piti GU 96925 Guam		
8. Phone (10-digits, No dashes) * 9. Extension 10. E-Mail *		
6714775931 303 jbrown@portguam.com		
Operator point of contact information		

11. First Name *	12. Middle Initial	13. Last Name *	14. Professional Title *
Joanne		Brown	General Manager

B: Facility Information

1. Facility Name *								
Port Authority of Guam - Equipment Maintenar	ice and Repai	r Facilities			Facility address same as	facility operator address		
2. Street/Location *								
1026 Cabras Highway, Suite 201								
3. Supplemental Address								
4. City *	5. State *		6. Zip Cod	9 *	7. Facility County or Similar	Govt. Subdivision *	_	
Piti	GU		96925		Guam			
Latitude/Longitude for the facility:								
8.Latitude (Decimal Degrees) *		9Longitude (Decimal Degr	ees) *	10. Latituc	le/Longitude Data Source *	11. Horizontal Reference D	atum	
+ Available upon request and clearance	e +	Available upon request an	nd clearance	Мар		WGS84		
12. What is the ownership type of the facility *	13. Es	timated area of industrial activ	vity at your fa	cility exposed	d to stormwater (to the neares	t quarter acre) *		
State Government	10.25	5						
Identify the applicable sector and subsector of ye	our primary ir	ndustrial activity (See Append	ix D) that best	represents t	he products produced or servi	ces rendered for which your f	acility is primari	y engaged, as defined in the
15. Sector *				16. Pri	marv SIC Code *			
SECTOR Q: WATER TRANSPORTATION				4491	Marine Cargo Handling			
17. Subsector								
Q1: Water Transportation Facilities								
18 Identify the applicable sectors(s) of any co-lo	rated industri	ial activity for which you are re	equesting per	mit coverage	N			
Sector			Subse	ctor				
								7
Add Sector								_
22 Is using facility presently in active and unstaffe	-12 *							
Yes No	u? "							
Discharge Information								
1. Does your facility discharge into any saltwater	receiving wa	ters? *						
Outfalls								
4. List all of the stormwater outfalls from you outfall.	r facility. Eac	h outfall must be identified	by a unique :	3-digit ID (e.	g., 001, 002) or a 4-digit ID. <i>I</i>	Also provide the latitude an	d longitude in d	lecimal degrees for each

C: I

A. Outfall ID * B. Latitude (Decimal Degrees) *	C. Longitude (Decimal Degrees) *		
001 + Available upon request and clearance +	Available upon request and clearance	Lookup Receiving Waters Information	Delete Outfall
	(2	I his button will prepopulate the receiving water information associated with your outfall on your form. You may edit the	
If for any reason the Lookup Receiving Water Information button does not prepr	וו אין אין אין אין אין אין אין אין אין אין	nformation that is returned if you believe it is incorrect)	
Outfall Section			
1. Provide the name of the first water of the U.C. that receives stormwater direct	u from the outfall and/or from the MCA that	the outfall discharges to	
(You may edit the name of the water of the U.S. that was returned if incorrect.) *	y from the outlan and/or from the MS4 that i	the outrail discharges to.	
Apra Harbor			
2. Is the receiving water listed as impaired on the 303(d) list and in need of a TM	DL? *		
Yes No			
4. List the pollutants that are causing the impairment:			
Please select the cause group and pollutant for which the waterbody is impaired	1:		
Cause Group *	Pollutant *		
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]		
Add Impairment Pollutant Associated with this Waterbody			
3. Has a TMDL been completed for this receiving waterbody? *			
Yes No			
Outfalls			
4. List all of the stormwater outfalls from your facility. Each outfall must be outfall.	identified by a unique 3-digit ID (e.g., 001	, 002) or a 4-digit ID. Also provide the latitude and longitude in de	ecimal degrees for each
A. Outfall ID * B. Latitude (Decimal Degrees) *	C. Longitude (Decimal Degrees) *		
002 + Available upon request and clearance +	Available upon request and clearance	Lookup Receiving Waters Information	Delete Outfall
	(a ii	This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the nformation that is returned if you believe it is incorrect)	
D. Substantially Identical to Any Outfalls Listed Above? *			
Yes 💿 No			
If for any reason the Lookup Receiving Water Information button does not prepa	opulate your form with receiving waters info	rmation, you must manually enter the information on your form.	
Outfall Section			
1. Provide the name of the first water of the U.S that receives stormwater directl (You may edit the name of the water of the U.S. that was returned if incorrect.)	y from the outfall and/or from the MS4 that f	the outfall discharges to.	
Apra Harbor			
 2. Is the receiving water listed as impaired on the 303(d) list and in need of a TM Yes No)L? *		

Please select the cause group and pollutant for which the waterbody is impaired: Cause Group * POLYCHLORINATED BIPHENYLS (PCBS) Polychlorinated biphenyls [PCBs]
Cause Group * Pollutant * POLYCHLORINATED BIPHENYLS (PCBS) Polychlorinated biphenyls [PCBs]
POLYCHLORINATED BIPHENYLS (PCBS) Polychlorinated biphenyls [PCBs]
Add Impairment Pollutant Associated with this Waterbody
2 Has a TMDL been completed for this receiving waterbody 2*
S. Has a finite been completed for this receiving waterbody?
Outfalls
4. List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall
A. Outfall ID * B. Latitude (Decimal Degrees) * C. Longitude (Decimal Degrees) *
003 + Available upon request and clearance + Available upon request and clearance Lookup Receiving Waters Information
(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)
D. Substantially Identical to Any Outfalls Listed Above? * E. Substantially identical to outfall ID *
● Yes O No 001
If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.
Outfall Section
1. Provide the name of the first water of the U.S that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to. (You may edit the name of the water of the U.S. that was returned if incorrect.) *
Apra Harbor
2. Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? *
● Yes O No
4. List the pollutants that are causing the impairment:
Please select the cause group and pollutant for which the waterbody is impaired:
Cause Group * Pollutant *
POLYCHLORINATED BIPHENYLS (PCBS) Polychlorinated biphenyls [PCBs]
Add Impairment Pollutant Associated with this Waterbody
3. Has a TMDL been completed for this receiving waterbody? *
Yes No

Provide the following information about your outfall latitude longitude.

5. Latitude/Longitude Data Source *	6. Horizontal	Reference Dat	um		
Мар	WGS84				
7. Does your facility discharge into a Mun Yes No	icipal Separate	Storm Sewer S	System (MS4)? *		
8. Do you discharge to any of the waters of propagation of fish, shellfish, and wildlife Yes No	of the U.S. that and recreation	are designatec n in and on the	I by the state or tribal authorit water) (See Appendix L)? *	under its antidegradation policy as a Tier 2 (or Tier 2.5)	water (water quality exceeds levels necessary to support
: Stormwater Pollution Prevention Plan (SW)	PPP) Informatic	on			
SWPPP Contact Information					
1. First Name *	2. M	iddle Initial	3. Last Name *	4. Professional Title *	
Simeon			Delos Santos	Engineering Manager	
5. Phone (10-digits, No dashes) *	6. Extension	7. E-Mail *	•		
6714775931	430	ssdls@pc	ortguam.com		
Option 1: Maintain a Current Copy of Provide the web address URL * http://www.portguam.com/public-notic	your SWPPP of ces-and-events, mation from yo	n an Internet p /public-notices our SWPPP.	age (Universal Resource Locato	or or URL).	
Endangered Species Protection					
1. Using the instructions in Appendix E of	f the MSGP, und	der which enda	angered species criterion listec	in Part 1.1.4.5 are you eligible for coverage under this p	permit? *
Criterion D – A separate ESA section 7 co	onsultation has	been complet	ed		
2. Provide a brief summary of the basis for implementation of controls approved by	or the criterion s EPA and the Se	selected in App ervices). *	pendix E (e.g., communication	with U.S. Fish and Wildlife Service or National Marine Fis	sheries Service to determine no species in action area;
Consultation of the United States Fish ar activities. Potential impacts to endange vicinity of the site.	nd Wildlife Serv red species as a	vice and Nation a result of pollu	al Marine Fisheries Service wa utant discharges were evaluate	s performed as part of the Environmental Assessment cc d during the consultation and determined to be insigni	onducted to support PAG facility expansion and modernization ficant. Additionally, no critical habitat was identified in the
You must attach copies of any letters or c	other communi	cations with th	e U.S. Fish and Wildlife Service	or National Marine Fisheries Service on the attachments	s screen after you click "Submit Now"

1	Histo	ic Pres	ervation
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1. If your facility is not located in Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe?*

Yes No

2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.7 are you eligible for coverage under this permit *

Criterion B - Subsurface stormwater controls will not affect historic properties

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. 40 CFR 122.22 (d)

Certifier E-Mail *	Form Action *	
jbrown@portguam.com	Approve	

E. ENDANGERED SPECIES DOCUMENTATION

ENDANGERED SPECIES ELIGIBILITY DETERMINATION

Appendix E - Procedures Relating to Endangered Species Protection

E.1 Assessing the Effects of Your Discharges and Discharge-Related Activities

You must follow the procedures in this appendix to determine which of the eligibility criteria in Part 1.1.4.5 (i.e., criterion A - E), if any, you qualify under, by assessing the potential effects of applicable stormwater discharges, discharge-related activities, and allowable nonstormwater discharges on listed threatened and endangered species and their designated critical habitat. In accordance with Part 5.2.6.1 of this permit, you must keep any documentation that supports your eligibility determination, including the completed <u>Criterion Selection</u> *Worksheet* in Part E.4 of this appendix, with your Stormwater Pollution Prevention Plan (SWPPP). You must complete your eligibility determination prior to submitting your Notice of Intent (NOI) for coverage under the MSGP, and must provide all information as required on your NOI form that supports the Part 1.1.4.5 eligibility criterion you qualify under. Note that if you have determined that you may be eligible under criterion C, you must submit a completed <u>Criterion C Eligibility Form</u> to EPA a minimum of 30 days <u>prior</u> to submitting your NOI for permit coverage.

When evaluating the potential effects of your activities, you must consider effects to listed species or critical habitats within the "action area" of your industrial activity. Action area is defined in Appendix A of the MSGP as all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action. This includes areas beyond the footprint of the facility that are likely to be affected by stormwater discharges, discharge-related activities, and allowable non-stormwater discharges. For example, discharges of pollutants into downstream areas can increase the "action area" beyond the footprint of the facility.

E.2 Eligibility Criterion

As required by Part 1.1.4.5, you must meet one or more of the following five criteria (A - E) to be eligible for coverage under the permit:

- **Criterion A.** No federally listed threatened or endangered species or their designated critical habitat(s) are likely to occur in the "action area" as defined in Appendix A. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must also provide a description of the basis for the criterion you selected on your NOI form and provide documentation supporting your eligibility determination in your SWPPP.
- **Criterion B.** Your industrial activity's discharges and discharge-related activities were already addressed in another operator's valid certification of eligibility for your action area under this permit and there is no reason to believe that federally listed species or designated critical habitat not considered in the prior certification may be present or located in the "action area" (e.g., due to a new species listing or critical habitat designation). To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. There must be no lapse of NPDES permit coverage in the other operator's certification. You must also comply with any additional measures that formed the basis of the other operator's valid certification of eligibility to ensure that your discharges and discharge-related activities are protective of listed species and/or critical habitat. You must include in your NOI the NPDES ID (i.e., permit tracking number) assigned to the other operator's authorization under this permit, and a description of the basis for the criterion selected on your NOI form, including the eligibility criterion selected by the

other operator's certification. You must also provide any documentation in your SWPPP that supports the other operator's eligibility determination, including any additional measures that formed the basis of the other operator's eligibility determination.

- **Criterion C.** Federally listed threatened or endangered species or their designated critical habitat(s) are likely to occur in or near your facility's "action area," and your industrial activity's discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or critical habitat. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E, including completion of the *Criterion C Eligibility Form*, which you must submit to EPA at least 30 days prior to filing your NOI for permit coverage. After evaluation of your *Criterion C Eligibility Form*, EPA may require additional measures that you must implement to avoid or eliminate likely adverse effects on listed species and critical habitat from discharges and discharge-related activities. You may submit your NOI for permit coverage 30 days after submitting to EPA your completed *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form
- Criterion D. Consultation between a Federal Agency and the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the Endangered Species Act (ESA) has been concluded. Consultations can be either formal or informal, and would have occurred only as a result of a separate federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and consultation must have addressed the effects of the industrial activity's discharges and discharge-related activities on all federally listed threatened or endangered species and federally designated critical habitat. The result of this consultation must be one of the following:
 - A biological opinion that concludes that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, or result in the destruction or adverse modification of critical habitat;
 - ii. A biological opinion that concludes that the action is likely to jeopardize listed species or to result in the destruction or adverse modification of critical habitat, and any recommended reasonable and prudent alternatives or reasonable and prudent measures are being implemented; or
 - iii. Written concurrence from the applicable Service(s) with a finding that your facility's discharges and discharge-related activities are not likely to adversely affect listed species or critical habitat.

To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must verify that the consultation does not warrant reinitiation under 50 CFR §402.16. If reinitiation of consultation is required, in order to be eligible under this criterion you must ensure consultation is reinitiated and the result of the consultation must be consistent with (i), (ii), or (iii) above.

If eligible, you must also provide supporting documentation for your determination in your NOI and SWPPP, including the Biological Opinion (or PCTS tracking number) or concurrence letter.

Criterion E. Your industrial activities are the subject of a permit under section 10 of the ESA, and this authorization addresses the effects of your facility's discharges and discharge-related activities on federally listed species and designated critical habitat. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must also provide supporting documentation for your determination in your NOI and SWPPP, including a copy of the permit from the Services.

E.3 Eligibility Compliance

You must comply with any measures that formed the basis of your eligibility determination in Part 1.1.4.5 for the duration of your coverage under the MSGP in order to maintain your eligibility for coverage under the permit. These measures become permit requirements per Part 2.3. Documentation of these measures must be kept as part of your SWPPP (see Part 5.2.6.1).

E.4 Criterion Selection Worksheet

Instructions:

You must follow the step-by-step instructions in this worksheet in order to determine your eligibility under the Part 1.1.4.5 criteria. Alternatively, if you prefer to use a Biological Evaluation (or its equivalent) in making a determination of your eligibility, you should ensure <u>all</u> of the information requested below for the criterion you are selecting is fully addressed in such a document. You must attach this completed document or Biological Evaluation (or equivalent) to your SWPPP to support your Part 1.1.4.5 eligibility determination.

You may need the following information in order to determine your eligibility:

- 1) Your facility's draft Stormwater Pollution Prevention Plan (SWPPP), including information on receiving waters.
- 2) Any additional site-specific information related to your facility's discharges and discharge-related activities.
- 3) The list(s) of endangered and threatened species and any designated critical habitat in your action area, as acquired from the Fish and Wildlife Service and/or the National Marine Fisheries Services. Directions on how to acquire species lists is described in a subsequent section below.

Note that much of the information needed to complete this worksheet is also needed in order to prepare your NOI for permit coverage, and is also information that you must develop as part of your SWPPP. You may copy and paste any information that is already required and completed in your SWPPP into this worksheet. (You may also decide to make minor changes or additions to your SWPPP while filling out the worksheet for clarification purposes or to address any concerns that are identified below.)

STEP 1: DETERMINE IF THE ELIGIBILITY REQUIREMENTS OF CRITERION B, D, OR E CAN BE MET.

A. You should first determine whether you are eligible under <u>criterion B</u> (because another operator has accounted for your action area in their valid certification of eligibility under the 2015 MSGP), <u>criterion D</u> (because of a previously completed ESA section 7 consultation), or <u>criterion E</u> (because of a previously issued ESA section 10 permit).

- B. If your facility is likely to be eligible under criterion B, D or E, you may skip ahead to the applicable criterion's requirements to determine if you are eligible. If after completing the relevant section you find that your facility does not in fact meet criteria B, D, or E (e.g., due to difference in action area described, lack of analysis of appropriate effects, new listings or designation of critical habitat), proceed to <u>Step 2</u> below.
- C. If your facility is not likely to be eligible under criterion B, D or E, you may proceed directly to <u>Step 2</u>.

Criterion B Eligibility Requirements

If your industrial activities were already addressed in another operator's valid certification of eligibility under the current 2015 MSGP, you may be eligible for coverage under criterion B. In order to be eligible for coverage under criterion B, you must confirm that all the following are true:

You have confirmed that the other operator's certification of eligibility accounted for your action area and that the eligibility determination was valid.

There has been no lapse of NPDES permit coverage in the other operator's certification.

You will comply with all measures that formed the basis of the other operator's valid certification of eligibility. List any measures here (or enter "N/A" if none exist):

- **If all of the above are true, you may select criterion B on your NOI.** You must include in your NOI the NPDES ID assigned to the other operator's authorization under this permit, and a description of the basis for the criterion selected on your NOI form, including the eligibility criterion selected by the other operator's certification. You must include this completed worksheet in your SWPPP.
- If any of the above are <u>not</u> true, you may not select criterion B and must proceed to <u>Step 2</u>. For example, if there are any listed species in your action area that were not addressed in the other operator's certification, you are not eligible under criterion B.

Criterion D Eligibility Requirements

If consultation under section 7 of the ESA has been concluded, you may be eligible for coverage under criterion D. In order to be eligible or coverage under criterion D, you must confirm that all the following are true:

A consultation between a federal agency and the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the ESA has been concluded. Consultations can be either formal or informal, and would have occurred only as a result of a separate federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and the consultation must have addressed the effects of your industrial activity's discharges and discharge-related activities on all federally listed threatened or endangered species and all designated critical habitat in your action area. The result of this consultation must be either:

- i. A biological opinion that concludes that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, or result in the destruction or adverse modification of critical habitat. The biological opinion <u>must</u> have included the effects of your facility's discharges^a and discharge-related activities on all the listed species and designated critical habitat in your action area;
- ii. A biological opinion that concludes that the action is likely to jeopardize listed species or to result in the destruction or adverse modification of critical habitat, and any recommended reasonable and prudent alternatives or reasonable and prudent measures are being implemented; or
- iii. Written concurrence (e.g., letter of concurrence) from the applicable Service(s) with a finding that concludes that your facility's discharges and discharge-related activities are not likely to adversely affect listed species or designated critical habitat. The concurrence letter <u>must</u> have included the effects of your facility's discharges and discharge-related activities on all the listed species and designated critical habitat on your species list(s) acquired from the Service(s) as part of this worksheet.

The consultation does not warrant reinitiation under 50 CFR §402.16; or, if reinitiation of consultation is required (e.g., due to a new species listing or critical habitat designation; new information), you have reinitiated the cosultation and the result of the consultation is consistent with the statements above. Attach a copy of any reinitiation documentation from the Services or other consulting federal agency.

- If all of the above are true, you may select criterion D on your NOI. You must also provide a description of the basis for the criterion selected on your NOI form and you must include this completed worksheet in your SWPPP. In both your SWPPP and NOI you must also provide the Biological Opinion (or PCTS tracking number) or concurrence letter and any other documentation supporting your eligibility determination.
- If any of the above are not true, you may not select criterion D and must proceed to <u>Step 2</u>. For example, if the biological opinion or written concurrence did not include the effects of the discharge or discharge-related activities as described above (e.g., the previous consultation covered some but not all of the species or critical habitat in your action area as shown on your species list), or if the consultation is no longer valid (e.g., due to new species listings), you are not eligible under criterion D.

Criterion E Eligibility Requirements

If your industrial activities are the subject of a permit under section 10 of the ESA, and this authorization addresses the effects of your facility's discharges and discharge-related activities on federally listed species and designated critical habitat in your action area, you may be eligible for coverage under criterion E. In order to be eligible or coverage under criterion E, you must confirm that the following is true:

A permit has been issued under section 10 of the ESA. The permit authorization specifically addresses the effects of your facility's discharges and discharge-related activities (if applicable) on all federally-listed species and designated critical habitat in your action area.

^o Effects of discharge includes, but is not limited to, the analysis of the hydrological, chemical, and biological effects of the discharge on listed species, their prey, and their habitat, as well as critical habitat, where designated. For example, the effects analysis would have evaluated whether the various pollutants in the discharge (e.g., TSS, metals) would adversely affect listed species through exposure to the pollutants, or to their prey or habitat. Effects that look only at short-term effects unrelated to the stormwater discharge effects to listed species are not sufficient for these purposes.

- If the above is true, you may select criterion E on your NOI. You must also provide a description of the basis for the criterion selected on your NOI form and must include this completed worksheet in your SWPPP. In both your SWPPP and your NOI you must provide a copy of the section 10 permit issued by the Services.
- If the above is not true, you may not select criterion E and must proceed to <u>Step 2</u>. For example, if a permit has been issued under section 10 of the ESA, but the permit authorization did not address the effects of your facility's discharges and/or discharge-related activities on all federally-listed species and designated critical habitat in your action area, you are not eligible under criterion E, but you should attach a copy of the permit to the SWPPP for reference.

STEP 2: DETERMINE THE EXTENT OF YOUR ACTION AREA

You must determine whether species listed as either threatened or endangered, or their critical habitat(s) (see definitions of these terms in Appendix A), are located in your facility's action area (i.e., all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action, including areas beyond the footprint of the facility that are likely to be affected by stormwater discharges, discharge-related activities, and allowable non-stormwater discharges). Consider the following in determining the action area for your facility:

- Discharges of pollutants into downstream areas can expand the action area well beyond the footprint of your facility and the discharge point(s). Take into account the controls you will be implementing to minimize pollutants and the receiving waterbody characteristics (e.g., perennial, intermittent, ephemeral) in determining the extent of physical, chemical, and/or biotic effects of the discharges. All receiving waterbodies that could receive pollutants from your facility must be included in your action area.
- Discharge-related activities must also be accounted for in determining your action area. Discharge-related activities are any activities that cause, contribute to, or result in stormwater and allowable non-stormwater point source discharges, and measures such as the siting, construction, and operation of stormwater controls to control, reduce, or prevent pollutants from being discharged. For example, any new or modified stormwater controls that will have noise or other similar effects, and any disturbances associated with construction of controls, are part of your action area.

If you have any questions about determining the extent of your action area, you may contact EPA or the Services for assistance.

You must include a map **and a written description of** the action area of your facility in <u>Attachment 1</u> of this appendix. You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the *Information, Planning, and Consultation System*) located at <u>http://ecos.fws.gov/ipac/ (see Step 3 for information about using this tool).</u>

You must proceed to <u>Step 3</u> below.

STEP 3: DETERMINE IF LISTED THREATENED OR ENDANGERED SPECIES AND/OR CRITICAL HABITAT ARE PRESENT IN YOUR ACTION AREA.

You must determine whether species listed as either threatened or endangered under the Endangered Species Act (ESA), and/or their designated critical habitat(s)^b, are located in your facility's action area. Federally listed species and designated critical habitat are under the purview of the National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service (FWS) (together, "Services"), and in many cases, species and critical habitat lists will need to be acquired from both Services.

^b See definitions of these terms in Appendix A of the MSGP.

- For NMFS species and critical habitat information, use the following webpages, which provide up-to-date information on listed species
 (http://www.nmfs.noaa.gov/pr/species/esa/) and critical habitat
 (http://www.nmfs.noaa.gov/pr/species/criticalhabitat.htm). To determine the field office that
 corresponds to your facility, go to http://www.nmfs.noaa.gov/pr/species/esa/) and critical habitat
 (http://www.nmfs.noaa.gov/pr/species/criticalhabitat.htm). To determine the field office that
 corresponds to your facility, go to http://www.nmfs.noaa.gov/ (under the left tab for "Regions").
 For NMFS species in the Greater Atlantic Region, go to
 http://www.greateratlantic.fisheries.noaa.gov/protected/section7/guidence/maps/index.html.
- For FWS species information, use the on-line mapping tool IPaC (the Information, Planning, and Consultation System) located at http://ecos.fws.gov/ipac/, and follow these steps:
 - Select Get Started.
 - Select Enter Project Location
 - Use an address, city name or other location to zoom into your project area
 - Use the zoom feature to see the entire extent of your action area on the screen.
 - Use one of the mapping features (e.g., Polygon or line feature) to draw your action.
 - For the aquatic portion of your action area, trace the waterbody(ies) with the tool to characterize your action area.
 - If your proposal will include any upland activities (i.e., discharge-related activities), or if there is some aspect of your discharge that would potentially result in effects to terrestrial species, include the corresponding upland areas within your action area.
 - When you are done, press Continue.
 - Select Request an Official Species List
 - Complete the fields on the Official Species List Request page, and include "(MSGP)" at the end of the project description.
 - For Classification, select "Water Quality Modification".
 - Select the appropriate requesting agency/organization type (for most applicants, this should be "Other").
 - Submit the request to acquire an Official Species List, which should show both listed species as well as any designated critical habitat that are present in the action area in the previous step.
 - Note: If a link to an Official Species List is not available on the page, follow the web link of the office(s) indicated, or contact the office directly by mail or phone if a web link is not shown.

The principle authority for critical habitat designations and associated requirementsis found at 50 CFR Parts 17 and 226. See <u>http://www.access.gpo.gov</u>.

Attach a copy of the species and critical habitat list(s) from the Service(s) to <u>Attachment 2</u> of this appendix and use the list(s) to complete the rest of this worksheet. For FWS species, include the full printout from your IPaC query/Official Species List in Attachment 2. You can include the map from your IPaC query in Attachment 1.

If after following the steps you have determined that there are no listed species and/or designated critical habitat in your action area, you may be eligible for coverage under <u>criterion A</u>.

If you have determined that there are or may be listed species and/or designated critical habitat in your action area, you are not eligible under criterion A and must proceed to <u>Step 4</u> below.

Criterion A Eligibility Requirements

In order to be eligible for coverage under criterion A, you must confirm that the following is true:

I have confirmed there to be no listed species and no critical habitat in my action area.

- If the above is true, you may select criterion A on your NOI form. You must also provide a description of the basis for the criterion selected on your NOI form. You must include this completed worksheet in your SWPPP. Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full **Note:** For existing dischargers that have previously obtained coverage under criterion A, you must verify whether listed species and/or critical habitat are expected to exist in your action area, as described above. Please note that if you now find that your action area overlaps with listed species or critical habitat, you must proceed to <u>Step 4</u>.

consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to verify no USFWS species or critical habitat were present in your action area.

- If the above is <u>not</u> true, you <u>may not</u> select criterion A and must proceed to <u>Step 4</u> to determine if you can become eligible under criterion C.

STEP 4: DETERMINE IF YOUR INDUSTRIAL FACILITY'S DISCHARGES OR DISCHARGE-RELATED ACTIVITIES ARE LIKELY TO ADVERSELY AFFECT LISTED THREATENED OR ENDANGERED SPECIES OR DESIGNATED CRITICAL HABITAT AND ANY MEASURES THAT MUST BE IMPLEMENTED TO AVOID ADVERSE EFFECTS

If in Step 3 you determined that listed species and/or designated critical habitat could exist in your action area, you must next assess whether your discharges and discharge-related activities are likely to adversely affect listed threatened or endangered species or designated critical habitat, and whether any additional measures are necessary to ensure no likely adverse effects. In order to make a determination of your facility's likelihood of adverse effects, you must complete the attached <u>Criterion C Eligibility Form</u> and must submit this form to EPA a minimum of 30 days prior to filing your NOI for permit coverage. After you submit your <u>Criterion C Eligibility Form</u>, you may be contacted by EPA with additional measures that you must implement in order to ensure your eligibility under criterion C.

Criterion C Eligibility Form

Instructions:

In order to be eligible for coverage under criterion C, you must complete the following form and you must submit it to EPA following the instructions in Section VII a <u>minimum of 30 days prior to</u> <u>filing your NOI for permit coverage.</u> After you submit your form, you may be contacted by EPA with additional measures (e.g., additional stormwater controls or modifications to your discharge-related activities) that you must implement in order to ensure your eligibility under criterion C.

If after completing this worksheet you cannot make a determination that your discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or designated critical habitat, you must submit this completed worksheet to EPA, and you may not file your NOI for permit coverage until you receive a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Note: Much of the information needed for this form can be obtained from your draft SWPPP which will be needed when you file your NOI.

SECTION I. OPERATOR, FACILITY, AND SITE LOCATION INFORMATION.

1) **Operator Information**

	a)	Operator Name:
	b)	Point of Contact
		First Name: Last Name:
		Phone Number:
		E-mail:
2)	Fac	cility Information
	a)	Facility Name:
	b)	Check which of the following applies:
		\Box I am seeking coverage under the MSGP as a new discharger or as a new source
		I am seeking coverage under the MSGP as an existing discharger and my facility has modifications to its discharge characteristics (e.g., changes in discharge flow or area drained, different pollutants) and/or discharge-related activities (e.g., stormwater controls)
		Indicate the number of years the facility has been in operation: years
		Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage:
		□ I am seeking coverage under the MSGP as an existing discharger and there are no modifications to my facility.
		Indicate the number of year the facility has been in operation: years
		Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage:

	Address 1:					-
	Address 2:					
	City:		Stat	e:	Zip Code:	
d)	Identify the p	orimary industric	Il sector to be c	covered und	der the 2015 MSGF).
	SIC Code	e or Primo	ary Activity Cod	de		
	Sector	and Subse	ector			
e)	Identify the s	ectors of any co	o-located activ	vities to be c	overed under the	201r MSGP:
	Sector	Subsector	r			
	Sector	Subsector	r			
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SECTION II. ACTION AREA

Ensure that your action area is described in <u>Attachment 1</u>, as required in <u>Step 2</u>.

SECTION III. LISTED SPECIES AND CRITICAL HABITAT LIST

Ensure that the listed species and critical habitat list is included in <u>Attachment 2</u>, as required in <u>Step 3</u>.

Review your species list in Attachment 2, choose one of the following three statements, and follow the corresponding instructions:

The species list includes only terrestrial species and/or their designated critical habitat. No aquatic or aquaticdependent species or their critical habitat are present in the action area. You may skip to <u>Section IV</u> of this form. You are not required to fill out <u>Section V</u>. **Note:** For the purposes of this permit, "terrestrial species" would <u>not</u> include animal or plant species that 1) spends any portion of its life cycle in a waterbody or wetland, or 2) if an animal, depends on prey or habitat that occurs in a waterbody or wetland. For example, shorebirds, wading birds, amphibians, and certain reptiles would not be considered terrestrial species under this definition. Please also be aware that some terrestrial animals (e.g., certain insects, amphibians) may have an aquatic egg or larval/juvenile phase.

The species list includes only aquatic and/or aquatic-

dependent species and/or their designated critical habitat. No terrestrial species or their critical habitat are present in the action area. You may skip to <u>Section V</u> of this form and are not required to fill out <u>Section IV</u>.

The species list includes both terrestrial and aquatic or aquatic-dependent species and/or their designated critical habitat. You must fill out both Sections \underline{V} and \underline{V} of this form.

SECTION IV. EVALUATION OF DISCHARGE-RELATED ACTIVITIES EFFECTS

Note: You are only required to fill out this section if your facility's action area contains terrestrial species and/or their designated critical habitat. If your action area only contains aquatic and/or aquatic-dependent species and/or their designated critical habitat, you can skip directly to <u>Section V</u>.

Most of the potential effects related to coverage under the MSGP are assumed to occur to aquatic and/or aquatic-dependent species. However, in some cases, potential effects to terrestrial species and/or their critical habitat should be considered as well from any discharge-related activities that occur during coverage under the MSGP. Examples of discharge-related activities that could have potential effects on listed terrestrial species or their critical habitat include the storage of materials and land disturbances associated with stormwater management-related activities (e.g., the installation or placement of stormwater control measures).

A. Select the applicable statement(s) below and follow the corresponding instructions:

There are no discharge-related activities that are planned to occur during my coverage under the MSGP. You can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or their critical habitat in your action area, you must skip to <u>Section V</u>, Evaluation of Discharge Effects, below.
- If there are no aquatic or aquatic-dependent species you may skip to <u>Section VI</u> and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in <u>Section VII</u> of this form. You may select criterion C on your NOI form and may submit your NOI for permit coverage 30 days after you have submitted this *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form, <u>including the</u> <u>species and critical habitat list(s) in your action area</u>, as well as any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.

] There are discharge-related activities planned as part of the proposal. Describe your discharge- elated activities in the following box and continue to (b) below.
Describe discharge-related activities:
 In order to ensure any discharge-related activities will have no likely adverse effects on listed species and/or their designated critical habitat, you must certify that all the following are true: Discharge-related activities will occur: on previously cleared/developed areas of the site where maintenance and operation of the facility are currently occurring or where existing conditions of the area(s) in which the discharge-related activities will occur precludes its use by listed species (e.g., work on existing impervious surfaces, work occurring inside buildings, area is not used by species), and if discharge-related activities will include the establishment of structures (including, but not limited to, infiltration ponds and other controls) or any related disturbances, these structures and/or disturbances will be sited in areas that will not result in isolation or degradation of nesting, breeding, or foraging habitat or other habitat functions for listed areas and or disturbances and or disturbances are included areas that will evaluate the destructures of the site of areas that will evaluate the destructures of the site of the site of areas that will evaluate the destructure of the site of areas that will evaluate the destructure of the site of the s
If vegetation removal (e.g., brush clearing) or other similar activities will occur, no terrestrial listed plant species that use these areas for habitat would be expected to be present during vegetation emoval.
all the above are true, you can conclude that your discharge-related activities will have no likely dverse effects, and:
If there are any aquatic or aquatic-dependent species and/or critical habitat in your action area, you must skip to <u>Section V</u> , Evaluation of Discharge Effects, below.
If there are no aquatic or aquatic-dependent species you may skip to <u>Section VI</u> and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in <u>Section VII</u> of this form. You may select criterion C on your NOI and may submit your NOI for permit coverage 30 days after you have submitted this completed form. You must also provide a description of the basis for the criterion you selected on your NOI form, <u>including the species</u> <u>and critical habitat list(s)</u> , and any other documentation supporting your eligibility. You must also include this completed <i>Criterion C Eligibility Form</i> in your SWPPP.
If any of the above are <u>not</u> true , you cannot conclude that your discharge-related activities will have no likely adverse effects. You must complete the rest of this form (if applicable), and must submit the form to EPA for assistance in determining your eligibility for coverage.

SECTION V. EVALUATION OF DISCHARGE EFFECTS

Note: You are only required to fill out this section if your facility's action area includes aquatic and/or aquatic-dependent species and/or their critical habitat.

In this section, you will evaluate the likelihood of adverse effects from your facility's discharges. The scope of effects to consider will vary with each facility and species/critical habitat characteristics. The following are examples of discharge effects you should consider:

- Hydrological Effects. Stormwater discharges may adversely affect receiving waters from pollutant parameters such as turbidity, temperature, salinity, or pH. These effects will vary with the amount of stormwater discharged and the volume and condition of the receiving water. Where a stormwater discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.
- Toxicity of Pollutants. Pollutants in stormwater may have toxic effects on listed species and may adversely affect critical habitat. Exceedances of benchmarks, effluent limitation guidelines, or state or tribal water quality requirements may be indicative of potential adverse effects on listed species or critical habitat. However, some listed species may be adversely affected at pollutant concentrations below benchmarks, effluent limitation guidelines, and state or tribal water quality standards. In addition, stormwater pollutants identified in Part 5.2.3.2 of your SWPPP, but not monitored as benchmarks or effluent limitation.

As these effects are difficult to analyze for listed species, their prey, habitat, and designated critical habitat, this form helps you to analyze your discharges and make a determination of whether your discharges will have likely adverse effects and whether there are any additional controls you can implement to ensure no likely adverse effects.

A. Evaluation of Pollutants and Controls to Avoid Adverse Effects. In this section, you must document <u>all</u> of your pollutant sources and pollutants expected to be discharged in stormwater. You must also document the controls you will implement to avoid adverse effects on listed aquatic and aquatic-dependent species. You must include specific details about the expected effectiveness of the controls in avoiding adverse effects to the listed aquatic-and aquatic-dependent species. Attach additional pages if needed.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species. Include information supporting why the control(s) will ensure no adverse effects, including any data you have about the effectiveness of the control(s) in reducing pollutant concentrations. You may also attach photos of your controls to this form.
e.g., vehicle and equipment fueling	e.g., • Oil & grease • Diesel • Gasoline • TSS • Antifreeze	 e.g., Fueling operators (including the transfer of fuel from tank trucks) will be conducted on an impervious or contained pad or under cover Drip pans will be used where leaks or spills of fuel can occur and where making and breaking hose connections Spill kit will be kept on-site in close proximity to potential spill areas Any spills will be cleaned-up immediately using dry clean up methods Stormwater runoff will be diverted around fueling areas using diversion dikes and curbing

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
_		
Check if you are not abl to a level necessary to avoid designated critical habitat. likely adverse effects, and m assistance in determining you	e to make a preliminary d adverse effects on aqu You must check in <u>Sectic</u> nust complete the rest of uur eligibility for coverga	determination that any of your pollutants will be controlled vatic and/or aquatic-dependent listed species and their on <u>VI</u> that you are unable to make a determination of no the form. You must submit your completed form to EPA for a

B. Analysis of Effects Based on Past Monitoring Data. Select which of the following applies to your facility:
□ I have no previous monitoring data for my facility because there are no applicable monitoring requirements for my facility's sector(s).
□ I have no previous monitoring data for my facility because I am a new discharger or a new source, but I am subject to monitoring under the 2015 MSGP. You must provide information to support a conclusion that your facility's discharges are not expected to result in benchmark or numeric effluent limit exceedances that will adversely affect listed species or their critical habitat:
☐ My facility has not had any exceedances under the 2008 MSGP of any required benchmark(s) or numeric effluent limits.
☐ My facility has had exceedances of one or more benchmark(s) or numeric effluent limits under the 2008 MSGP, but I have addressed them during my coverage under the 2008 MSGP, or in my evaluation of controls to avoid adverse effects in (A) above. Describe all actions (including specific controls) that you will implement to ensure that the pollutants in your discharge(s) will not result in likely adverse effects from future exceedances.
Check if your facility has had exceedances of one or more benchmarks or numeric effluent limits under the 2008 MSGP and you have not been able to address them to avoid adverse effects from future exceedances, or if you are a new discharger or a new source but you are not sure if you can avoid adverse effects from possible exceedances. You must check in <u>Section VI</u> that you are unable to make a determination of no likely adverse effects. You must submit your completed form to EPA for assistance in determining your eligibility for coverage. You may not file your NOI for permit coverage until you are able to make a determination that your discharges will avoid adverse effects on listed species and designated critical habitat.
ECTION VI VERIFICATION OF PRELIMINARY EFFECTS DETERMINATION
Based on Steps I – V of this form, you must verify your preliminary determination of effects on listed pecies and designated critical habitat from your discharges and/or discharge-related activities :
Following the applicable Steps in I – V above, I have made a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats

Following the applicable Steps in I – V above, I am **not** able to make a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

If you have made a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this form must be submitted a minimum of 30 days prior to submitting your NOI for permit coverage under criterion C. Please note that during either the 30-day *Criterion C Eligibility Form* review period prior to your NOI submission, or within 30 days after your NOI submission and before you have been authorized for permit coverage, EPA may advise you that additional information is needed, or that there are additional measures you must implement to avoid likely adverse effects.

If you are unable to make a preliminary determination that your discharges and/or dischargerelated activities are not likely to adversely affect listed species and critical habitat, this worksheet must be submitted to EPA, but you may not file your NOI for permit coverage until you have received a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Attachment 1

Include a map **and a written description** of the action area of your facility, as required in <u>Step 2</u>. You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the *Information, Planning, and Consultation System*) located at <u>http://ecos.fws.gov/ipac/</u>.

The written description of your action area that accompanies your action area map must explain your rationale for the extant of the action area drawn on your map. For example, your action area written description may look something like this:

The action area for the (name of your facility)'s stormwater discharges extends downstream from the outfall(s) in (name of receiving waterbody) (# of meters/feet/kilometers/miles). The downstream limit of the action area reflects the approximate distance at which the discharge waters and any pollutants would be expected to cause potential adverse effects to listed species and/or critical habitat because (insert rationale). The action area does/does not extend to the (name of receiving waterbody)'s confluence with (name of confluence waterbody) because (insert rationale).

Note that you action area written description will be highly site-specific, depending on the expected effects of your facility's dishcarges and discharge-related activities, receiving waterbody characteristics, etc.
Attachment 2

List or attach the listed species and critical habitat in your action area on this sheet, as required in <u>Step 3</u>. You must include a list for applicable listed NMFS and FWS species and critical habitat. If there are listed species and/or critical habitat for only one Service, you must include a statement confirming there are no listed species and/or critical habitat for the other Service. For FWS species, include the full printout from your IPaC query. Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to identify the existence of any USFWS species or critical habitat present in your action area.

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AGENCY CONSULTATION LETTERS

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1200 New Jersey Avenue, S.E. Washington, D.C. 20590

Michael Tosatto Regional Administrator Pacific Islands Regional Office NOAA/NMFS 1601 Kapiolani Boulevard, Suite 1110 Honolulu, HI 96814

August 22, 2012

SUBJECT Port Authority of Guam Port Modernization Project Federal Threatened and Endangered Species Determination

Mr. Tosatto:

The United States Department of Transportation, Maritime Administration (MARAD) is in the process of preparing an Environmental Assessment (EA) in accordance with the National Environmental Policy Act (NEPA) of 1969, as amended; Council on Environmental Quality Regulations (40 Code of Federal Regulations [CFR] 1500–1508); DOT Order 5610.1c; and MARAD MAO 600-1 to identify and assess the potential impacts associated with the proposed Port Authority of Guam Port Modernization Project (Project). MARAD seeks National Marine Fisheries Service (NMFS) concurrence with the determination that although Federal Threatened and Endangered Species may be affected by the subject action, it is not likely to be adversely affected.

The proposed action for the Project is to modernize, improve, and reconfigure the Port's existing 52-acre Terminal Yard and develop a 19-acre Expansion Area immediately east of the Terminal Yard with new cargo storage facilities in order to increase cargo-handling capacity and operating efficiency (Attachment 1, Figures 1-1, 1-2). The overall purpose of the Project is to update facilities and reconfigure operations in order to create sufficient capacity to support projected cargo handling demand, while maintaining ongoing Port operations.

All proposed work would be done above and out of the water. The only project component with any direct impact on marine waters would be the replacement of one existing storm water outfall, and the installation of two additional stormwater outfalls. The outfalls would be constructed to include treatment systems (oil-water separators). The current outfall is untreated. The new outfalls would require permitting by the U. S. Environmental Protection Agency under the National Pollutant Discharge Elimination System (NPDES).

Based on the agencies' responses to the letters of inquiry regarding federally threatened and endangered species, as well as follow-up communication, the federally threatened and endangered species under NMFS jurisdiction that are expected to occur in the action area are: the green turtle (*Chelonia mydas*) – a federally threatened species, and the hawksbill turtle (*Eretmochelys imbricata*) – a federally endangered species. The anticipated prevalence of these species on and near the site is summarized below.

Sea Turtles (green turtle and hawksbill turtle) – Guam's Division of Aquatic Wildlife Resources (DAWR) has maintained a bimonthly aerial survey program that confirms the year-round presence of a resident population of green sea turtles in Guam's nearshore waters. Sightings include low numbers of turtles observed throughout Apra Harbor (DAWR unpublished data). Grimm and Farley (2008) report that hawksbills are frequently sighted in the nearshore waters surrounding Guam. However, they are less common than green sea turtles. According to Wiles *et al.* (1995), hawksbills represent about 13% of turtles sighted around Guam. Aerial turtle survey information obtained from 1992 to 2009 by DAWR indicated that the nearest record of nesting is at the Sea Plane Ramp located approximately 4,000 feet west of the site, and known nesting by both species occurs at Spanish Steps at the west end of Orote Peninsula (DAWR 2004; Grimm and Farley 2008). Although neither turtle nests at the project site, both inhabit Apra Harbor in low numbers, and as such either species may utilize marine waters in the project area to forage, shelter, or they may swim through the area to reach other nearby habitats.

Proposed Action

The Proposed Action would not be expected to result in significant direct or indirect impacts to federally threatened and endangered species during construction or operation of the proposed Project.

Construction Effects

Based on the planned above- and near-water work, with the absence of any in-water work, the stressors expected by the proposed action on in-water sea turtles is limited to: Disturbance from human activity and equipment operation, and exposure to wastes and discharges.

Disturbance from human activity and equipment operation: Sea turtles that are exposed to project-related activity may experience a startle reaction. The reaction could range from one extreme where an animal calmly approaches and investigates the activity, to an opposite reaction of panicked flight, where an animal injures itself in an attempt to flee. However, sea turtles typically avoid human activity in Apra Harbor. Thus, the most likely effect of this interaction would be a moderate to high energy avoidance behavior leading to the animal rapidly leaving project areas without injury. The project best management practices (BMP) require contractors to reduce the likelihood of this interaction by watching for and avoiding sea turtles. Based on that expectation, we have determined that disturbances related to the proposed action would be infrequent and non-injurious, resulting in insignificant effects on the ESA-listed sea turtles.

Exposure to wastes and discharges: Construction wastes may include plastic trash and bags that may be ingested and cause digestive blockage or suffocation, or if large enough, along with discarded sections of ropes and lines, may entangle marine life. Equipment spills and discharges likely consist of hydrocarbon-based chemicals such fuel oils, gasoline, lubricants, hydraulic

fluids and other toxicants, which could expose protected species to toxic chemicals. Depending on the chemicals and their concentration, exposure could result in a range of effects, from avoidance of an area to death. Local and Federal regulations prohibit the intentional discharge of toxic wastes and plastics into the marine environment. Additionally, the project BMPs includes measures intended to prevent the introduction of wastes and toxicants into the marine environment. Based on this, we expect that discharges and spills are unlikely to occur, but will be infrequent, small, and quickly cleaned if they do occur. Therefore, we have determined that exposure to construction wastes and discharges that may result from this action will result in insignificant effects on ESA-listed sea turtles.

Operational Effects

Significant impacts to federally threatened and endangered species would not be expected during operation of the Project, as none of these species are expected to seasonally or permanently inhabit the site.

With operation of the Port facilities under the Proposed Action, there would be a long-term increase in activity levels (related to increases in vessel and vehicular traffic), noise, and light at the Port relative to existing conditions. The increase in activity levels, noise, and light could impact federally threatened and endangered species (if any) on and in the vicinity of the site. However, the site currently is an active commercial port and activity levels, noise, and light onsite are already relatively high. Therefore, the incremental increase in these levels with the Proposed Action would not be expected to result in significant impacts on federally threatened and endangered species.

Mitigation Measures

The following mitigation measures are proposed by the Proponent to address potential impacts to federally threatened and endangered species during construction of the Proposed Action:

During Construction

- The site would be surveyed for Marianas common moorhen prior to vegetation clearing associated with construction of the storm water outfalls, to determine the status of Marianas common moorhen. If nests are located, clearing would not be completed until birds and nestlings leave on their own volition.
- Engineering controls (i.e. light focusing reflectors, deflective shrouds, and fence screens) would be installed to minimize stray light from construction activities from reaching adjacent habitat areas.

In conclusion, based on the effects analyses provided above, the MARAD has concluded that the potential stressors posed by the proposed action would result in insignificant impacts, or the likelihood of impacts would be discountable, for ESA-listed sea turtles. As such, MARAD has determined that the proposed action may affect, but is not likely to adversely affect any ESA listed marine species under NMFS jurisdiction, and we request your written concurrence with that determination under Section 7 of the ESA.

Thank you for your consideration of this request. If you have any questions, please call Mr. Daniel Yuska of my staff at 202-366-0714.

Sincerely,

Hichael C. Carter

Director, Office of Environment



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL MARINE FISHERIES SERVICE Pacific Islands Regional Office 1601 Kapiolani Blvd., Suite 1110 Honolulu, Hawaii 96814-4700 (808) 944-2200 • Fax: (808) 973-2941

SEP 1 2 2012

Mr. Michael C. Carter Director, Office of Environment U.S. Department of Transportation Maritime Administration 1200 New Jersey Avenue, S.E. Washinton, D. C. 20590

Dear Mr. Carter:

This letter responds to your August 22, 2012 letter regarding the proposal by the U.S. Department of Transportation, Maritime Administration (MARAD) and the Port Authority of Guam to modernize the commercial port, on the island of Guam. In the letter, MARAD determined that the proposed action is not likely to adversely affect endangered or threatened species under National Marine Fisheries Service (NMFS) jurisdiction, and requested our concurrence under section 7 of the Endangered Species Act of 1973 (ESA), as amended (16 U.S.C. §1531 et seq.), with that determination.

Proposed Action/Action Area: The action is described in your letter with its attachments (MARAD 2012). In summary, the proposed action consists of MARAD funding the Port Authority of Guam to perform above water work to modernize, improve, and reconfigure the existing 52-acre Terminal Yard and to develop a new 19-acre Expansion Area with new cargo storage facilities. The only project component with direct impacts on the marine environment would be the replacement of the single existing storm water outfall, and the installation of two new additional storm water outfalls. All three outfalls would be equipped with oil-water separators. The outfalls would require permitting under the U. S. Environmental Protection Agency's National Pollutant Discharge Elimination System (NPDES). All work would occur above water, and the project includes comprehensive BMP that include requirements to minimize and control erosion, sedimentation, and discharges. The action area for this project is estimated to be the in-water area within 50-yards around project-related activities, and the in-water or toxic chemicals such as fuels and/or lubricants associated with the machinery used for this activity.

Listed Species/Critical Habitat: MARAD determined that green sea turtles (*Chelonia mydas*) and hawksbill sea turtles (*Eretmochelys imbricata*) are the only ESA-listed species under NMFS



jurisdiction that occur within the action area for the proposed action. Detailed information to describe the biology, habitat, and conservation status for sea turtles can be found in the recovery plans and other sources at <u>http://www.nmfs.noaa.gov/pr/species/turtles/</u>.

<u>Critical Habitat</u>: There is no designated critical habitat for any listed marine species within or adjacent to the action area. Therefore, this action would have no effect on designated critical habitat.

Analysis of Effects: In order to determine that a proposed action is not likely to adversely affect listed species, NMFS must find that the effects of the proposed action are expected to be insignificant, discountable, or beneficial as defined in the joint USFWS-NMFS Endangered Species Consultation Handbook: (1) insignificant effects relate to the size of the impact and should never reach the scale where take occurs; (2) discountable effects are those that are extremely unlikely to occur; and (3) beneficial effects are positive effects without any adverse effects (USFWS & NMFS 1998). This standard, as well as consideration of the probable duration, frequency, and severity of potential interactions, was applied during the analysis of effects of the proposed action on ESA-listed marine species, as is described in the MARAD consultation request. MARAD determined that disturbance from human activity and equipment operation and exposure to wastes and discharges would result in insignificant effects on ESA-listed sea turtles. Based on consideration of the record, NMFS agrees with MARAD that the proposed action would have insignificant impacts on the sea turtles considered in this consultation.

<u>Conclusion</u>: NMFS concurs with your determination that funding the Port Authority of Guam to perform the proposed Port Modernization Project at the Guam Commercial Port is not likely to adversely affect ESA-listed marine species or their designated critical habitat. Our concurrence is based on the finding that the effects of the proposed action are expected to be insignificant, discountable, or beneficial as defined in the joint USFWS-NMFS Endangered Species Consultation Handbook (USFWS-NMFS 1998) and summarized at the beginning of the Analysis of Effects section above. This concludes your consultation responsibilities under the ESA for species under NMFS's jurisdiction. However, this consultation focused solely on compliance with the ESA. Any additional compliance review that may be required of NMFS for this action (such as assessing impacts on Essential Fish Habitat) would be completed by NMFS Habitat Conservation Division in separate communication, if applicable.

ESA Consultation must be reinitiated if: 1) a take occurs; 2) new information reveals effects of the action that may affect listed species or designated critical habitat in a manner or to an extent not previously considered; 3) the identified action is subsequently modified in a manner causing effects to listed species or designated critical habitat not previously considered; or 4) a new species is listed or critical habitat designated that may be affected by the identified action.

If you have further questions please contact Donald Hubner on my staff at (808) 944-2233. Thank you for working with NMFS to protect our nation's living marine resources.

Sincerely,

m_92 Michael D. Tosatto

Regional Administrator

cc: Patrice Ashfield, ESA Section 7 Program Coordinator, USFWS, Honolulu Tony Montgomery, Coastal Conservation, USFWS, Honolulu

NMFS File No. (PCTS): I/PIR/2012/03725 PIRO Reference No.: I-PI-12-1026-LVA

Literature Cited

U.S. Dept of Transportation, Maritime Administration (MARAD). 2012. Letter to request informal consultation under Section 7 of the Endangered Species Act for the Port Authority of Guam Port Modernization Project. August 22, 2012.

U.S. Fish and Wildlife Service and National Marine Fisheries Service. 1998. Endangered Species Consultation Handbook. Procedures for Conducting Consultation and Conference Activities Under Section 7 of the Endangered Species Act.

http://www.nmfs.noaa.gov/pr/pdfs/laws/esa_section7_handbook.pdf



1200 New Jersey Avenue, S.E. Washington, D.C. 20590

Dan Polhemus Administrator U.S. Fish and Wildlife Service Pacific Islands Ecoregion 300 Ala Moana Boulevard Room 3-122, Box 50088 Honolulu, HI 96850

August 22, 2012

SUBJECT: Port Authority of Guam Port Modernization Project Federal Threatened and Endangered Species Determination

Mr. Polhemus:

The United States Department of Transportation, Maritime Administration (MARAD) is in the process of preparing an Environmental Assessment (EA) in accordance with the National Environmental Policy Act (NEPA) of 1969, as amended; Council on Environmental Quality Regulations (40 Code of Federal Regulations [CFR] 1500–1508); DOT Order 5610.1c; and MARAD MAO 600-1 to identify and assess the potential impacts associated with the proposed Port Authority of Guam Port Modernization Project (Project). MARAD seeks United States Fish and Wildlife Service (USFWS) concurrence with the determination that although Federal Threatened and Endangered Species may be affected by the subject action, it is not likely to be adversely affected.

The proposed action for the Project is to modernize, improve, and reconfigure the Port's existing 52-acre Terminal Yard and develop a 19-acre Expansion Area immediately east of the Terminal Yard with new cargo storage facilities in order to increase cargo-handling capacity and operating efficiency (Attachment 1, Figures 1-1, 1-2). The overall purpose of the Project is to update facilities and reconfigure operations in order to create sufficient capacity to support projected cargo handling demand, while maintaining ongoing Port operations.

Based on the agencies' responses to the letters of inquiry regarding federally threatened and endangered species, as well as follow-up communication, the federally threatened and endangered species on and in the vicinity of the site are: the green turtle (*Chelonia mydas*) – a

federally threatened species; hawksbill turtle (*Eretmochelys imbricata*) – a federally endangered species; and Marianas common moorhen (*Gallinula chloropus guami*) – a federally endangered species. The anticipated prevalence of these species on and near the site is summarized below.

- Sea Turtles (green turtle and hawksbill turtle) Due to lack of habitat, there is a low likelihood of either of the sea turtles (*C. mydas* and *E. imbricata*) nesting or foraging onsite, particularly in the location of the two new proposed outfalls in the Expansion Area. Aerial turtle survey information obtained from 1992 to 2009 by DAWR indicated that the nearest record of nesting is at the Sea Plane Ramp located approximately 4,000 feet west of the site. Neither turtle species is likely to nest onsite, because of the lack of sandy beaches along the shoreline. No sea turtles were observed in the vicinity of the site during either the June 2010 biological survey or the December 2010 and January 2011 marine surveys for this EA.
- Marianas common moorhen The Marianas common moorhen (G. chloropus guami) is unlikely to forage or nest onsite due to the lack of appropriate habitat and protected nesting areas. The Marianas common moorhen was not observed during the June 2010 field survey.

Proposed Action

The Proposed Action would not be expected to result in significant direct or indirect impacts to federally threatened and endangered species during construction or operation of the proposed Project.

Construction Effects

Significant impacts to federally threatened and endangered species (i.e. the hawksbill turtle- *E. imbricata*, green turtle - *C. mydas*, and Marianas common moorhen - *G. chloropus guami*) would not be expected during construction activities for the proposed Project, as there is little likelihood that these species seasonally or permanently inhabit the site.

However, to minimize the potential to impact federally threatened and endangered species (if any), construction activities would be conducted in compliance with Guam EPA (GEPA) and DAWR requirements to minimize potential disturbance from construction during bird migration periods, and direct impacts (i.e. for installation of the proposed storm water outfalls) would be avoided during active bird nesting. Engineering controls would be installed to minimize stray construction lighting from reaching adjacent habitat areas. Therefore, construction activities would not be expected to result in significant adverse effects on federally threatened and endangered species.

Operational Effects

Significant impacts to federally threatened and endangered species would not be expected during operation of the Project, as none of these species are expected to seasonally or permanently inhabit the site.

With operation of the Port facilities under the Proposed Action, there would be a long-term increase in activity levels (related to increases in vessel and vehicular traffic), noise, and light at the Port relative to existing conditions. The increase in activity levels, noise, and light could impact federally threatened and endangered species (if any) on and in the vicinity of the site.

However, the site currently is an active commercial port and activity levels, noise, and light onsite are already relatively high. Therefore, the incremental increase in these levels with the Proposed Action would not be expected to result in significant impacts on federally threatened and endangered species.

Mitigation Measures

The following mitigation measures are proposed by the Proponent to address potential impacts to federally threatened and endangered species during construction of the Proposed Action:

During Construction

- The site would be surveyed for Marianas common moorhen prior to vegetation clearing associated with construction of the storm water outfalls, to determine the status of Marianas common moorhen. If nests are located, clearing would not be completed until birds and nestlings leave on their own volition.
- Engineering controls (i.e. light focusing reflectors, deflective shrouds, and fence screens) would be installed to minimize stray light from construction activities from reaching adjacent habitat areas.

In conclusion, The Maritime Administration has determined that while the Proposed Action may temporarily affect Federal Threatened and Endangered Species, the effects would not result in significant impacts. MARAD seeks USFWS written concurrence with this determination.

Thank you for your consideration of this request. If you have any questions, please call Mr. Daniel Yuska of my staff at 202-366-0714.

Sincerely,

A Michael C. Carter Director, Office of Environment

To:PAG EA Admin RecordSubject:FW: 2012-I-0422 Port of Guam Modernization Project Section 7
Consultation

From: Jodi Charrier@fws.gov [mailto:Jodi Charrier@fws.gov]
Sent: Friday, September 14, 2012 6:01 PM
To: Yuska, Daniel (MARAD)
Subject: RE: 2012-I-0422 Port of Guam Modernization Project Section 7 Consultation

Hello Daniel,

Thank you for providing the survey.

We can agree to the modification of #2. Although the area is highly industrialized, we like to recommend adding as little to current ambient light as possible. Also, though no turtles nest in the immediate vicinity, they are definitely found in waters nearby and the brighter our shores and night-time horizons, the more potential for disorientation. It is my understanding that shielding lights or installing shielded lights is not cost prohibitive when compared to standard lighting. However, I will not slow down the consultation process for this detail.

I will edit the measure and draft the letter today. You should receive it within 30 days. No additional or official correspondence is needed.

Aloha, Jodi Charrier

Fish & Wildlife Biologist Pacific Islands Fish and Wildlife Service 300 Ala Moana Boulevard Room 3-122, Box 50088 Honolulu, Hawaii 96850-5000 Ph: 808-792-9400 Fax: 808-792-9580

<<u>Daniel.Yuska@dot.gov</u>>

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09/14/2012 08:39 AM

To <<u>Jodi Charrier@fws.gov</u>>

cc <<u>tino\_aguon@hotmail.com</u>>, <<u>jeff.quitugua@yahoo.com</u>>, <<u>dsavercool@eaest.com</u>> Subject RE: 2012-I-0422 Port of Guam Modernization Project Section 7 Consultation

Jodi,

Thank you for the email. We can agree and comply with the conditions below, however we would like to propose one modification. Regarding condition #2, sea turtle-friendly lighting, we propose that we use engineering controls (i.e. light focusing reflectors, deflective shrouds, or fence screens) to minimize stray light from construction activities that may reach adjacent habitat areas. Our reasoning is that results from biological surveys conducted as part of this project show there are no beaches in the project area, no turtle nesting areas, and no foraging habitat. Essentially, the area is highly industrialized and has served as an active port for over 60 years. Please let me know if our proposal is acceptable.

As a matter of procedure, would you prefer we edit our initial consultation letter to reflect the conditions and re-submit or will an email confirmation suffice?

As discussed yesterday, I have attached the biological survey of the project site and surrounding area. Please let me know if there is anything else you need. Because of our time difference, feel free to reach me on work cell at 202-281-5474. I have cc'ed our environmental consultant on this email so we can get you any additional information expeditiously.

Thanks for your assistance, Dan

From: Jodi\_Charrier@fws.gov [Jodi\_Charrier@fws.gov]
Sent: Thursday, September 13, 2012 4:26 PM
To: Yuska, Daniel (MARAD)
Cc: tino\_aguon@hotmail.com; jeff.quitugua@yahoo.com
Subject: 2012-I-0422 Port of Guam Modernization Project Section 7 Consultation

Aloha Mr. Yuska,

Nice to finally catch up with you via phone this morning. As mentioned, we received your request for concurrence with your NLAA determination for the Port of Guam Modernization Project in our office on August 27. As mentioned this morning, we have 30 days from the day that we receive all of the data necessary to complete our analysis to complete the consultation. I will do my best to expedite.

The following are our standard recommendations to avoid and minimize impacts to sea turtles and Mariana moorhen. If it is amenable with your agency to include these as nondiscretionary conservation measures in your Section 7 consultation, we can send a concurrence letter and finish the Section 7 process.

1. Pre-construction surveys will be completed one week prior to the onset of work by a biologist experienced in the identification of the moorhen by sight and vocalization and experienced with implementation of the Service protocol survey methodology to ensure no nesting moorhen are present. If nesting moorhen are present within 984 ft (300 m), clearing and construction will be postponed until chicks have fledged and the moorhen has left voluntarily. If work stops for more than one week, pre-construction surveys will be repeated to ensure that no moorhen have begun nesting. Guam Division of Aquatic and Wildlife Resources (DAWR) personnel will be contacted at 671 735-3955 if moorhen are detected at any time prior to or during construction.

2. Sea turtle-friendly lighting will be installed for any replaced or proposed lighting. This will reduce the direct and ambient lighting of the beach and will reduce disorientation of nesting or hatchling sea turtles. This lighting will follow guidelines found in the technical report by The Florida Fish and Wildlife Conservation Commission found on-line here:

http://www.sescolighting.com/turtlelighting/Sea%20Turtle%20Booklet.pdf

3. Any construction-related debris that may pose an entanglement hazard to marine protected species must be removed from the project site when it is not actively being used and at the conclusion of the construction work.

4. NMFS's standard best management practices regarding sediment control, pollution and erosion will be followed.

5. All best management practices and conservation measures will be reviewed with all workers and made available on the project site. This includes species and habitat specific measures, the erosion control plan, spill prevention and control plan and the Hazard Analysis and Critical Control Points plan.

6. A litter control program shall be instituted at the entire project site. All workers ensure their food scraps, paper wrappers, food containers, cans, bottles, and other trash from the project area are deposited in covered or closed trash containers. The trash containers shall be removed from the project area at the end of each working day.

Thank you, Jodi Charrier -----Fish & Wildlife Biologist Pacific Islands Fish and Wildlife Service 300 Ala Moana Boulevard Room 3-122, Box 50088 Honolulu, Hawaii 96850-5000 Ph: 808-792-9432

Fax: 808-792-9580



## United States Department of the Interior

FISH AND WILDLIFE SERVICE Pacific Islands Fish and Wildlife Office 300 Ala Moana Boulevard, Room 3-122, Box 50088 Honolulu, Hawaii 96850



JUN 1 3 2013

In Reply Refer To: 2012-I-0422

Mr. Michael C. Carter U.S. Department of Transportation Maritime Administration 1200 New Jersey Avenue, S.E. Washington, D.C. 20590

Subject: Informal Section 7 Consultation on the Proposed Guam Port Modernization Project, Guam

Dear Mr. Carter:

We received your letter dated August 22, 2012, requesting our concurrence with your determination that the proposed Guam Port Modernization Project may affect, but is not likely to adversely affect the federally endangered Mariana common moorhen (*Gallinula chloropus guami*; moorhen) and hawksbill turtle (*Eretmochelys imbricata*), and the threatened green turtle (*Chelonia mydas*). This letter also addresses biosecurity concerns regarding the brown treesnake (*Boiga irregularis*). In early October 2012, Service staff notified MARAD that a brown treesnake biosecurity plan needed to be developed, approved and incorporated into the project description as part of the section 7 consultation. Since that time, MARAD has worked with the Service (both invasive species and section 7 staff), Port of Guam Authority (PAG), and the U.S. Department of Agriculture Animal and Plant Inspection Service, Wildlife Services (USDA) to develop a sound brown treesnake biosecurity plan. MARAD submitted a draft version of the plan in early December, 2012. The final version was accepted in May, 2012

The findings and recommendations in this consultation are based on: (1) your August, 22 2012, consultation request; (2) a meeting held in our office on June 4, 2012, (3) phone call and email exchanges between Jodi Charrier, Dawn Greenlee, Kevin Foster, Domingo Cravalho, and Earl Campbell, (U.S. Fish and Wildlife Service (Service)) and Daniel Yuska (The United States Department of Transportation, Maritime Administration (MARAD)) and other information available to us. A complete administrative record is on file in our office. This response is in accordance with section 7 of the Endangered Species Act of 1973 (Act), as amended (16 U.S.C. 1531 *et seq.*).



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#### **Project Description**

MARAD is proposing to reconfigure and expand the Jose D. Leon Guerrero Commercial Cargo Port (Port) at Piti, Guam. The Port is planning to update facilities and reconfigure operations to support projected increased cargo handling demand and to maintain ongoing Port operations. Expansion of the existing 52-acre terminal will include the development of a 19-acre area immediately east of the terminal yard. Elements of the Guam Port Modernization Project include construction of a new break-bulk terminal area and new entrance and exit gates, demolition and refurbishment of buildings, and installation of oil and water separators in the eight existing storm water outfalls, and construction of two new outfalls.

#### **Invasive Species**

The brown treesnake was accidentally introduced to the island of Guam shortly after World War II. It has colonized the island at densities reaching 32 individuals per acre and is directly responsible for the extinction of 10 of 12 native forest birds historically found on Guam (USDA 2011). The brown treesnake poses a risk to biodiversity, natural resources, food security, economic development, human health, and ecosystem services on Guam as well as other Pacific islands. The cryptic nature and extreme abundance on Guam creates a significant risk of dispersal via civilian and Department of Defense (DoD) cargo transferred from the island to other ports.

The increased cargo traffic due to the Guam Port Modernization Project will increase the likelihood that the brown treesnake may be transported from Guam to other locations. The introduction of this highly invasive snake to other islands would be devastating to native fauna, particularly listed species. As part of the proposed action, PAG has committed to developing a HACCP plan, assuring all incoming and outbound cargo is inspected, and securing the funding to do so.

**During Construction:** A Hazard Analysis and Critical Control Point Plan (HACCP) or similar plan will be created for vegetation removal, construction activities, and increased maritime traffic resulting from the proposed Port Modernization Project. A HACCP plan is a tool designed to prevent the accidental spread of non-native invasive species by eliminating or reducing risk through pathway analysis and critical control point planning. The HACCP plan will incorporate measures to ensure there is no inadvertent transport of invasive species into and out of Guam.

**During Port Operation:** Most outbound freight arrives at the Port in the form of sealed shipping containers and comes from privately owned freight forwarding companies. Currently, USDA inspects containers at the freight-forwarding company properties. However, there is concern that uninspected containers are transported to the Port and co-mingled with previously inspected containers. PAG will actively work with all cooperating freight forwarding companies in the brown treesnake inspection program to ensure inspections are complete. Prior to entry, all containers arriving to the Port via roads must be cleared at the security gate. Containers without proof of inspection documentation will be refused at the gate and not allowed to enter the Port.

Existing levels of brown treesnake interdiction efforts conducted by USDA will be increased to address increases in commercial cargo exports to U.S. states and territories, and other locations resulting from the Port Modernization Project. PAG, in consultation with the Guam Customs and Quarantine Agency, DAWR, DoD, and other pertinent agencies, agrees to develop a

mechanism to ensure necessary funding is provided for increased brown treesnake interdiction efforts by USDA. The mechanism will be developed no later than 12 months after the start of the Port Modernization Project. The amount of funding necessary will be determined by comparing the amount of commercial cargo handled by the Port over the 60-month period immediately before the Port Modernization Project begins in relation to the current level of interdiction effort required by USDA (number of traps, number of inspections, etc.). This amount will represent the baseline condition for future brown treesnake interdiction efforts to be compared against. If commercial cargo handled by the Port decreases below the baseline level, then additional funding will not be required for that year. PAG will re-evaluate funding needs every 5 years. During this 5-year period, a working group consisting of members from PAG, USDA, the Service, and other Guam agencies, will meet annually to discuss the status of commercial cargo movement and interdiction efforts.

In addition to agreeing to fund that portion of the increase in brown treesnake interdiction measures required due to construction and increased maritime traffic related to the Port Modernization Project, PAG will employ an iterative adaptive management process, consistent with the brown treesnake interdiction commitment made by DoD (Service 2010). The adaptive management process will establish a system of reporting, monitoring, and threshold metrics that can be used to guide the appropriate level of brown treesnake interdiction.

#### Avoidance and Minimization Measures

The following measures identified in your letter will be implemented at the project site to avoid and minimize effects to the species listed above. These conservation measures are considered part of the project description. Any changes to, modifications of, or failure to implement these conservation measures may result in the need to reinitiate this consultation.

- Pre-construction surveys will be completed one week prior to the onset of work to ensure no nesting moorhen are present. These surveys will be conducted by a biologist experienced in the identification of the moorhen by sight and vocalizations and experienced with implementation of the Service survey protocol methodology. If nesting moorhen are present within 300 meters (m) (984 feet [ft]) of the project, clearing and construction will be postponed until chicks have fledged and the moorhen have left voluntarily. If work stops for more than one week, surveys will be repeated to ensure no moorhen have initiated nesting. Guam Division of Aquatic and Wildlife Resources (DAWR) personnel will be contacted at (671) 735-3955 if moorhen are detected at any time prior to or during construction.
- 2. Engineering controls (i.e. light focusing reflectors, deflective shrouds, or fence screens) will be used to minimize stray light from construction activities that may reach adjacent turtle habitat.
- 3. Construction work will follow the Environmental Protection Plan (EPP) developed for the project and tailored to the specific construction methods. Although no in-water work is involved, the EPP measures will control discharges and manage spills from heavy equipment operating at the site near fresh and marine waters. Containment booms and absorbent pads will be readily available onsite for cleaning up lubricant or petroleum spills. To minimize erosion, sedimentation, and other adverse impacts to aquatic resources and nearby coral reef ecosystems, environmental protection measures will be

installed prior to construction or demolition activities. These will include Standard Best Management Practices (BMPs) as identified in the enclosed list.

- 4. All tools, gear, and construction scrap generated from this project will be removed upon completion of work to prevent the attraction of invasive pests.
- 5. No project-related materials will be stockpiled in the intertidal zone, reef flats, or stream channels.

#### **Affected Species**

## The Mariana Common Moorhen

The Mariana common moorhen occurred historically on the islands of Guam, Tinian, Saipan, and Pagan (Baker 1951; Service 1991; Stinson et al. 1991). Archaeological evidence also indicates they were present on Rota between 1,500 to 2,000 years ago (Butler 1988). The most recent survey information indicates there are approximately 90 moorhen on Guam, 154 on Saipan, 41 on Tinian, and only 2 individuals on Rota (Takano and Haig 2004). Currently, the two main threats to the moorhen are: (1) loss and degradation of wetland habitat, including filling, alteration of hydrology, invasion of habitat by non-native plants, and unrestricted grazing of domestic and feral ungulates; and 2) predation by introduced species (Service 1991; Service 1996).

Moorhen are opportunistic breeders and may be attracted to ephemeral water bodies. The 19acre expansion area consists of scrub forest and wet areas that may contain suitable habitat for moorhen. No moorhen were detected during a June 2010, survey. Due to the implementation of pre-construction monitoring for moorhen, lack of moorhen presence in recent years, and curtailing project activities if a moorhen is nesting within 300 m (984 ft), we concur the proposed action may affect, but is not likely to adversely affect the moorhen.

#### Green and Hawkbill Turtles

*Green turtle* - The biology and ecology of this species is summarized in the *Recovery Plan for* U.S. Pacific Populations of the Green Turtle (Chelonia mydas) (NMFS and Service 1998a) and the five-year Status Review (2007a) that indicate nesting may occur on the island of Guam, but not in high numbers. In addition to nesting, green turtles may also use beaches to haul out and bask, although this behavior has never been documented in Guam (Kelly 2009; Wusstig 2009). Nesting activity on Guam occurs throughout the entire year and peaks between April and July (Grimm and Farley 2008).

*Hawksbill turtle* - The biology and ecology of this species is summarized in the *Recovery Plan for U.S. Pacific Populations of the Hawksbill Turtle (Eretmochelys imbricata)* (NMFS and Service 1998b) and five-year Status Review (2007b). Hawksbill turtles are frequently sighted in the near-shore waters surrounding Guam (Grimm and Farley 2008), though the population is thought to be declining, with only 5 to 10 females estimated to nest annually (NMFS and Service 2007b). Hawksbill turtles were reported nesting in June and July at Tarague Beach, Guam; however, this is based on only one year of data (Wusstig, 2008a). Between 1991 and 1994, hawksbill turtles nested in Sumay Marina, Apra Harbor, Guam, in October, December, February, and March (Wusstig, 2008b). In 2008, four nesting attempts at Adotgan Dikiki, Guam were attributed to the hawksbill turtle (Grimm and Farley 2008).

According to aerial surveys conducted by DAWR from 1992 to 2009, the nearest record of nesting turtles is at the Sea Plane Ramp, located approximately 4,000 feet west of the project site. There are no suitable nesting beaches and there have been no reported sea turtle nesting activities in the immediate vicinity of the project. Therefore, we concur with your determination the proposed project may affect, but is not likely to adversely affect green or hawksbill turtles.

#### Summary

Based on the project description, including the implementation of the conservation measures you provided, we concur with your determination that the project may affect, but is not likely to adversely affect the Mariana moorhen, and hawksbill or green turtles. In addition, your agreement to develop a HACCP Plan and implement increased BTS interdiction adequately addresses our concerns regarding invasive species, and therefore, we conclude your project is not likely to adversely affect other listed species. Unless the project description changes, or new information reveals that the effects of the proposed action may affect listed species in a manner or to an extent not considered, or a new species or critical habitat is designated that may be affected by the proposed action, no further action pursuant to the Act is necessary.

If you have any questions or concerns regarding this consultation, please contact Jodi Charrier, Fish and Wildlife Biologist (phone: 808-792-9423, email: jodi\_charrier@fws.gov) or regarding invasive species, please contact Domingo Cravalho, Invasive Species Biologist (phone: 808-872-9445, e-mail: domingo\_cravalho@fws.gov).

Sincerely.

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For Loyal Mehrhoff Field Supervisor

Enclosure(s): Brown treesnake Control Plan Standard Best Management Practices

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Mr. Daniel Vice, U.S. Department of Agriculture, Guam Mr. Celestino Aguon, Guam Department of Agriculture

#### Literature cited

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## U.S. Fish and Wildlife Service Recommended Standard Best Management Practices

The U.S. Fish and Wildlife Service recommends that the measures below be incorporated into projects to minimize the degradation of water quality and minimize the impacts to fish and wildlife resources.

- 1. Turbidity and siltation from project-related work shall be minimized and contained within the vicinity of the site through the appropriate use of effective silt containment devices and the curtailment of work during adverse tidal and weather conditions.
- 2. Dredging/filling in the marine environment shall be scheduled to avoid coral spawning and recruitment periods and sea turtle nesting and hatching periods.
- 3. Dredging and filling in the marine/aquatic environment shall be designed to avoid or minimize the loss special aquatic site habitat (beaches, coral reefs, wetlands, etc.) and the function of such habitat shall be replaced.
- 4. All project-related materials and equipment (dredges, barges, backhoes, etc.) to be placed in the water shall be cleaned of pollutants prior to use.
- 5. No project-related materials (fill, revetment rock, pipe, etc.) should be stockpiled in the water (intertidal zones, reef flats, stream channels, wetlands, etc.) or on beach habitats.
- 6. All debris removed from the marine/aquatic environment shall be disposed of at an approved upland or ocean dumping site.
- 7. No contamination (trash or debris disposal, non-native species introductions, attraction of non-native pests, etc.) of adjacent habitats (reef flats, channels, open ocean, stream channels, wetlands, beaches, forests, etc.) shall result from project-related activities. This shall be accomplished by implementing a litter-control plan and developing a Hazard Analysis and Critical Control Point Plan (HACCP see <a href="http://www.hacep-nrm.org/Wizard/default.asp">http://www.hacep-nrm.org/Wizard/default.asp</a>) to prevent attraction and introduction of non-native species.
- 8. Fueling of project-related vehicles and equipment should take place away from the water and a contingency plan to control petroleum products accidentally spilled during the project shall be developed. Absorbent pads and containment booms shall be stored onsite, if appropriate, to facilitate the clean-up of accidental petroleum releases.
- 9. Any under-layer fills used in the project shall be protected from erosion with stones (or core-loc units) as soon after placement as practicable.
- 10. Any soil exposed near water as part of the project shall be protected from erosion (with plastic sheeting, filter fabric etc.) after exposure and stabilized as soon as practicable (with native or non-invasive vegetation matting, hydroseeding, etc.).

F. HISTORIC PROPERTIES DOCUMENTATION

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HISTORIC PROPERTIES ELIGIBILITY DETERMINATION

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FELIX P. CAMACHO Governor of Guam

MICHAEL W. CRUZ Lieutenant Governor

#### 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



Telephone: (671) 477-5931/35 (671) 477-2683/85 Facsimile: (671) 477-2689/4445 Webpage: www.portofguam.com

December 15, 2010

Mr. Joe Duenas State Historic Preservation Office Guam Historic Resources Division 490 Chalan Palasyo Agana Heights, Guam 96910

#### Subject: Port Authority of Guam Terminal Yard Reconfiguration Maintenance and Repair Project Section 106 Concurrence

Happy Holidays Mr. Duenas:

The Port Authority of Guam (PAG) is undertaking the above-referenced project to address much needed improvements to its facilities and is preparing a NEPA Environmental Assessment (EA) to address potential project-related impacts. The Maritime Administration (MARAD) is the lead agency for the NEPA process. As a federal undertaking, the project will comply with Section 106 of the National Historic Preservation Act (NHPA). PAG is considering potential impacts to historic resources (defined as cultural resources deemed eligible for nomination to the National or Guam Register of Historic Places (NRHP/GRHP) which may be affected by the project. Please review this letter and if in concurrence with the determinations provided, sign and date the letter as provided on page 2.

#### **Project Description**

This project will reconfigure and expand the Port terminal yard to enhance its cargo handling capacity. To help achieve efficient use of the site, the project will include demolition, expansion or refurbishment of buildings and construction of new buildings; installation of utilities (water, sewer, stormwater and fire protection systems and high-mast lights); and installation of one new 36-inch stormwater outfall and one new 30-inch stormwater outfall into Apra Harbor. Other project elements include paving of currently unpaved portions of the terminal yard; upgrades to existing terminal yard pavement; installation of security infrastructure; new gates and parking areas; and new cargo handling and equipment systems. The proposed terminal plan layout and details of the breakbulk yard and proposed terminal buildings are shown in Figures 1 and 2, respectively.

The terminal yard will be redesigned to accommodate separate break-bulk and container operations and will allow for wheeled and grounded container storage. Gate and Terminal Operating Systems will be installed to control the movement and tracking of increased cargo volumes and will add to overall port operating efficiency. A new break bulk terminal will be constructed on ten acres of the West Terminal Yard, using the Berth F-4 frontage for waterside

Subject: Port Authority of Guam Terminal Yard Reconfiguration Maintenance and Repair Project Section 106 Concurrence

Page 2

access. Most of the demolition, reconfiguration and expansion changes to the buildings will occur on the west side of the site and are adjacent to the expanded break-bulk terminal (see Figure 2).

As shown in Figures 3, 4 and 5, two new stormwater outfalls will originate at the southeastern portion of the site and terminate atop riprap before discharge into Apra Harbor (approximately 100 cubic yards (CY) of rip-rap will be placed at each outfall (for a total of 200 CY) and will cover a total of approximately 1530 square feet (0.035 acres) in regulated wetland areas. The maximum water depth at the location of the rip-rap is approximately 1.5 feet below Mean Higher High Water (MHHW). At low tide, the rip-rap will be aerially exposed.

Approximately 40 acres of unpaved area will be re-graded in constructing the expanded terminal yard areas. Concurrent with this re-grading, several thousand feet of utilities (water, electric, sanitary sewer, storm sewer, communications) infrastructure will be installed. The depth of regrading will range between 0 feet and 20 feet. Following re-grading, utility trench depths will range from 3 feet to 10 feet. The location and details of the proposed high mast lights are shown in Figures 6 through 9. Footings for the high-mast lights will be installed at a depth of 17 feet.

#### The Area of Potential Effect

the Area of Potential Effect (APE) for this project is within the proposed construction footprint. This APE accommodates the anticipated proposed staging areas and other temporary impacts necessary during construction.

#### **Historic Properties**

Identification of historic properties included consulting a number of sources. These sources include:

- Consultation with the Guam Historic Preservation Office,
- GIS files of historic site locations on Guam,
- Soil Survey of Territory of Guam of 1988 by the U.S. Department of Agriculture,
- Jose D. Leon Guerrero Commercial Port of Guam Master Plan Update 2007 Report, and
- Cultural Resources Reconnaissance, Cabras Island, Apra Harbor, Territory of Guam April 1977

The Port of Guam was constructed starting in 1966, with a peak of construction activity between 1967 and 1969. The Port started providing service in 1969. As construction is slated to be complete by 2013, a fifty-year period would include properties built before 1963. Buildings constructed after 1963 are considered out of period. Notable, relatively unmodified buildings, such as the Port Administration Building (1967-1968), Control Tower (1968-1969), and the Port Police Station (post-1970) were built after this date. There have been several expansion projects since construction, which have impacted the historic integrity of any resources in the Port. Since Port buildings were constructed in or after 1966, they are considered out-of-period, and not historic properties as defined in 36 CFR 800.

Subject: Port Authority of Guam Terminal Yard Reconfiguration Maintenance and Repair Project Section 106 Concurrence

Page 3

No archaeological sites are documented within the APE for this project. Further, it is unlikely that the APE holds undocumented sites, as most of the area has been subject to recent commercial and military development. Much of the area is underlain with coral and rock at shallow depth, and does not hold potential for significant subsurface deposits.

#### **Findings of Effect**

Since there are no known historic properties within the APE, we believe that a finding of No Historic Properties Affected is appropriate, pursuant to 36 CFR 800.4(d)(1). It also is unlikely that any undocumented historic properties will be encountered. If any properties are identified during construction, PAG will consult with the Guam SHPO.

If you have any questions or concerns, please contact me by phone at 671-477-5931 or via email at rjagustin@portguam.com.

Si Yu'os Ma'ase,

GUSTI General Manager

I, the undersigned, concur with the APE and findings of effect stated above for the Port Authority of Guam Terminal Yard Reconfiguration Maintenance and Repair Project

Joe Duenas, State Historic Preservation Officer

Date





Figure 2. Breakbulk Yard and Proposed Terminal Buildings








Figure 5. Storm Drain and Outfall Profile



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Figure 6. Location of High Mast Lighting

SEE DRAWING No. 3N





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## Figure 8. Location of High Mast Lighting

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Figure 9. High Mast Lighting Detail





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Figure 2. Breakbulk Yard and Proposed Terminal Buildings



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Figure 3. Aerial photograph of Port Authority of Guam with annotated outfall drain locations



Edward J.B. Calvo Governor

## Raymond S. Tenorio

In reply refer to: RC09-5225

January 19, 2011

Department of Parks and Recreation Government of Guam 490 Chalan Palasyo Agana Heights, Guam 96910 Director's Office: (671) 475-6296/7 Facsimile: (671) 475-6288/9 Guam Historic Resources Division: (671) 475-6294/5 Facsimile: (671) 477-2822



Peter S. Calvo Acting Director

hanager's Office RECEIVED

Mr. Enrique J.S. San Agustin General Manager Port Authority of Guam Jose D. Leon Guerrero Commercial Port Government of Guam 1026 Cabras Highway, Suite 201 Piti, Guam 96915

Subject: Section 106 Project Review: Port Authority of Guam Terminal Yard Reconfiguration Maintenance and Repair Project, Piti, Guam

We reviewed for the above project and have the following comments:

We concur with your determination of "No Historic Property Affected," however, you will need the services of an archaeologist if there is an inadvertent discovery of historic properties during the project undertaking. Additionally, during the permitting process, we will issue a Certificate of Approval with stipulations that the Port Authority of Guam document photo structures within the project area that are 25 years or older and submitted to the Guam Historic Resources Division to assist in this effort you may contact William Hernandez, HP Specialist at 475-6349.

If you have any questions, please contact our office at 475-6294/6295 or fax us at 477-2822.

Sincerely,

Peter S. Calvo Acting Director

cc: BSP

Co-Signature:

Lynda Bordallo Aguon Guam (State) Historic Preservation Officer