REGIONAL MS4 STORMWATER PROGRAM ANNUAL REPORT

For

Virginia General Permit for Small Municipal Separate Storm Sewer Systems; Permit #VAR040114 - Permit Year 1; 01JUL2013 to 30JUN2014 -

Submitted By:
Department of the Navy
Naval Facilities Engineering Command
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NAVFAC
Naval Facilities Engineering Command

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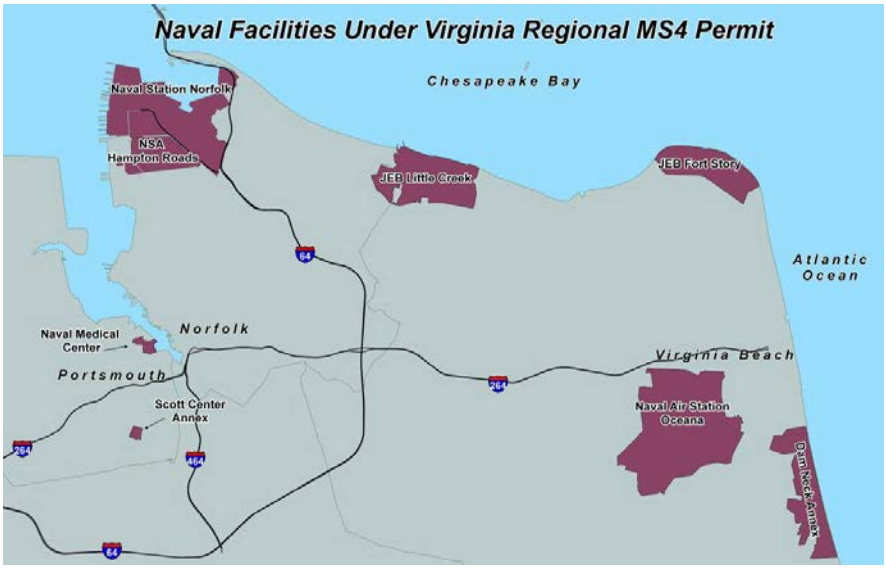
Introduction

In accordance with the reporting requirements set forth in the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems, Virginia Regulation 9VAC25-890-40, the information provided within this annual report is intended to document MS4 program activities undertaken between July 1, 2013 and June 30, 2014. Specifically, this report presents the information requested in items (a) through (h) of section II.E.3 of the General Permit. The Naval installations in Virginia that are deemed regulated MS4's and that receive coverage under the Navy's Consolidated MS4 permit coverage are:

- Naval Station Norfolk*
- Naval Support Activity Hampton Roads*
- Naval Air Station Oceana*
- Dam Neck Annex*
- JEB Little Creek* & Fort Story*
- Scott Center Annex
- Naval Medical Center Portsmouth

**Indicates that the installation is also regulated under VPDES Industrial Permit.*

Unless otherwise specified, all data presented in this report represents the actions undertaken on a regional scale by the Stormwater Program for the installations in Hampton Roads, Virginia to satisfy the minimum control measures required by the VAR04 General Permit.



Background Information

(a.) Background Information.

(1) United States Navy Consolidated MS4, Permit Number: VAR040114

(2) Permit Year #1 – July 1, 2013 to June 30, 2014.

(3) Modification to operator's roles and responsibilities:

a. The Navy opted to defer E&S Control and SWM Program Authority to the Department of Environmental Quality in accordance with the applicable regulations. Standard operating procedures related to plan submittal and approval procedures were updated and distributed to internal Navy stakeholders. SOP's are available for review in appendix B.

(4) There were 00 new external outfalls constructed during permit year #1.

(5) The signed certification statement is included on page 06 of this report.

(b.) Status of Compliance.

- As part of the Navy's Environmental Management System (EMS) program both internal and external EMS & compliance audits are routinely performed at each installation to assess that all installation activities and programs conform to EMS requirements and environmental regulations. A review of the MS4 program activities undertaken at an installation is a component of an EMS audit when it is performed. During this permit cycle, there were no negative findings identified for the MS4 program during EMS audits performed at the installations regulated under the Navy's consolidated MS4 permit.
- The status of compliance with the permit conditions, an assessment of the appropriateness of the implemented best management practices, and progress toward achieving the identified measurable goals for each of the minimum control measures is contained in the data table found in appendix-A of this report.

(c.) Result of Information Collected.

- During PY1 no monitoring data was collected as part of the MS4 program. Outfall sampling and analytical monitoring is performed as part of the installation's VPDES industrial stormwater permits.

(d.) MS4 Program Activities.

- The following projects are currently underway or are in the process of being awarded for execution during PY2:

  i. 2014 Municipal Separate Storm Sewer System Construction Site Inspections for Hampton Roads Installations. Scope of Work dated 16 July 2014; Project will be executed during MS4 PY2/PY3. Refer to appendix C for additional project information.

  ii. 2014 Chesapeake Bay TMDL Action Plan for Hampton Roads Installations. Scope of Work dated 13 June 2014 (revised 2 September 2014). Project will be executed during MS4 PY2/PY3. Refer to appendix C for additional project information.

  iii. 2014 Municipal Separate Storm Sewer System Program Implementation for Hampton Roads Installations. Scope of Work dated 26 June 2014. Project will be executed during MS4 PY2/PY3. Refer to appendix C for additional project information.

  iv. 2014 Stormwater Phase II Stormwater Mapping and Illicit Discharge Survey for NSA Portsmouth and Scott Center Annex. Scope of Work dated 11 April 2014. Project began during MS4 PY1 and will be completed during PY2. Refer to appendix C for additional project information.

  v. Identify Opportunities to Strengthen Storm Water Management to Comply with E.O. 13508 - Chesapeake Bay Protection and Restoration at Joint Expeditionary Base Little Creek. Scope of Work dated 18 January 2013. Project execution underway during MS4 PY1 and PY2. Refer to appendix C for additional project information.

  vi. Identify Opportunities to Strengthen Storm Water Management to Comply with E.O. 13508 - Chesapeake Bay Protection and Restoration at Naval Station Norfolk. Scope of Work dated Rev. 17 July 2013 (original SOW: 16 January 2013). Project execution underway during MS4 PY1 and PY2. Refer to appendix C for additional project information.

  vii. Identify Opportunities to Strengthen Storm Water Management to Comply with E.O. 13508 - Chesapeake Bay Protection and Restoration at Naval Air Station Oceana. Scope of Work dated 18 January 2013. Project execution underway during MS4 PY1 and PY2. Refer to appendix C for additional project information.

  viii. The following projects are being conducted as part of the installation VPDES programs, and are underway or are going to be executed during MS4 PY2 and involve stormwater mapping update of IDDE survey component:

- Naval Air Station Oceana and Dam Neck Annex, VPDES Stormwater Pollution Prevention Plan Update, Stormwater Pollution Prevention Maps Update, and Site Compliance Evaluation. Scope of Work dated 23 January 2014, revised: 3 April 2014.
- 2014 VPDES Permit Application, Illicit Discharge Study, Site Compliance Evaluation, Stormwater Pollution Prevention Plan Update, Stormwater Maps Update, and Cooling Tower and Boiler Inventory, Naval Station Norfolk. Scope of Work dated 14 March 2014.

(e.) Program Changes.

- The following changes in best management practices and measureable goals were made for the current permit year.
    i. Plan review and approval procedures were modified during PY1 to comply with Va. E&S Control and SWM regulations. Please refer to the SOP's found in appendix B for additional information.

(f.) Third Party Assistance. N/A.

(g.) Alternative Programs. N/A.

(h.) TMDL Special Conditions.

- Annual reporting requirements per Section I.B.5
    i. Section I.B.5 (a) – Non-Bay TMDL Action Plans shall be completed within 36 months of permit coverage in accordance with the schedule set forth in Section I of the Permit.
    ii. Section I.B.5 (b) – N/A at this time.
- Annual reporting requirements per Section I.C.4
    i. Section I.C.4 (a) - Bay TMDL Action Plans shall be completed within 24 months of permit coverage in accordance with the schedule set forth in Section I of the Permit. Refer to projects identified in item (d.) on page 3 of this report for actions undertaken by the Navy to address TMDL Action Plan requirements.
    ii. Section I.C.4 (b) – N/A at this time.
    iii. Section I.C.4 (c) – N/A at this time.
    iv. Section I.C.4 (d) – N/A at this time.

Certification Statement

As required by 9VAC25-870-370 B, all reports required by state permits, and other information requested by the board shall, be signed by a responsible official or by a duly authorized representative of that person. A responsible official is:

1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
3. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and
3. The written authorization is submitted to the department.

CERTIFICATION

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.

Kristen S. Bass 29 Sept 2014
Responsible Official Signature Date

VAR040114 Navy Consolidated MS4
Permit Number MS4 Name

Permit Required Annual Reporting Information

1. **In accordance with MS4 General Permit Section II.B.1.g the operator of the permit shall include the following information in the annual report submitted to the Department for the MS4 PY1 permit term:**

    a) A list of the education and outreach activities conducted during the reporting period for each high priority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that will be reached shall be reported. The following table 1.1 provides this required reporting information.

Table 1.1:

List of Activities Conducted (PY1)	Estimated Number of People Reached
ECATTS Training: Stormwater Comprehensive Overview	1400
ECATTS Training: Sediment and Stormwater Construction (Module 1-9)	900
ECATTS Training: Stormwater General	500
ECATTS Training: Env. Compliance and Enforcement	2200
ECATTS Training: Env. Requirements for Contractors	100
ECATTS Training: General Env. Compliance	1750

ECATTS Training: Naval Station Norfolk; Annual Spill Briefing	808
ECATTS Training: Spill Prevention C & C	2000
ECATTS Training: Pollution Control	750
ECATTS Training: Pollution Prevention (2 modules)	1900
ECATTS Trainings: All Other Training Modules (84)	50,000
2014 NAVFAC Civil Summit E&S and Stormwater Presentation	250
Installation Environmental Trainings Face to Face w/ Tenants (Various Stormwater Topics)	1500
Stormwater Tri-Fold Brochure Distribution (4 Brochure Topics)	1000
The Flagship Newspaper Stormwater Outreach Article #1	Est. 10,000*
The Flagship Newspaper Stormwater Outreach Article #2	Est. 10,000 *
The Flagship Newspaper Stormwater Outreach Article #3	Est. 10,000 *

The Flagship Newspaper Stormwater Outreach Article #4	Est. 10,000 *
Estimated Number of People Reached (Total):	**105,000**
Estimated Percentage of Target Audiences:	**37.50 %**

**** The Flagship newspaper is published weekly, distributing 40,000 copies to 900 locations with a customer base of 275,000 and an online audience of 70,000.***

b) A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience that will be reached.

Table 1.2:

List of Activities To Be Conducted (PY2)	All activities identified in Table 1.1 will be performed again during PY2.
Estimated Number of People To Be Reached:	115,000
Estimated Percentage of Target Audiences To Be Reached:	41.00 %

2. In accordance with MS4 General Permit Section II.B.2.d the operator of the permit shall include the following information in the annual report submitted to the Department for the MS4 PY1 permit term:

a) The web link to the MS4 Program Plan and annual report:

http://www.navfac.navy.mil/navfac_worldwide/atlantic/fecs/mid-atlantic/about_us/environmental_norfolk/environmental_compliance.html

b) Documented compliance with Section II.B.2 of the General Permit:

Table 2.1:

Public Participation Events for MS4 PY1	
Earth Day Event on 22 APR 2014	JEB Little Creek & Fort Story
Earth Day / Arbor Day – 01 MAY 2014	NSA Norfolk
Earth Day Event – 30 APR 2014	NSA Portsmouth
Arbor Day Celebration – 29 APR 2014	Naval Station Norfolk
Clean the Station Day – 09 MAY 2014	Naval Station Norfolk
Volunteer Dune Planting Event – 16 MAY 2014	NAS Oceana Dam Neck Annex
Earth Day / Arbor Day Event – 23 APR 2014	NAS Oceana & Dam Neck Annex
Clean the Bay Day – 06/07 JUN 2014	NASO Dam Neck Annex
Clean the Bay Day – 06/07 JUN 2014	Fort Story
Clean the Bay Day – 06/07 JUN 2014	JEB Little Creek
Clean the Bay Day – 06/07 JUN 2014	NSA Hampton Roads
Clean the Bay Day – 06/07 JUN 2014	Naval Station Norfolk
Clean the Bay Day – 06/07 JUN 2014	Naval Medical Center Portsmouth
Clean the Bay Day – 06/07 JUN 2014	NWS Yorktown & Cheatham Annex

3. In accordance with MS4 General Permit Section II.B.3.f for Illicit Discharge Detection and Elimination the MS4 operator is required to provide the following information with the annual report for permit year #1.

a) A list of any written notifications of physical interconnections given by the operator to other MS4's.

b) The total number of outfalls screened during the reporting period, the screening results, and detail of any follow-up actions necessitated by the screening results. Per MS4 Permit Section II.B.3(c)(1) if the regulated MS4 operator has more than 50 outfalls, a minimum of 50 outfalls were required

to be screened. The following table provides the required reporting information to the Department for MS4 PY1:

Table 3.1:

Total # of Outfalls Screened in PY1	Screening Results and Follow-up Actions
205	See Appendix D

c) A summary of each investigation conducted by the operator or any suspected illicit discharge.
    a. Any spill or unauthorized release, whether it enters the MS4 system or not, is reported in accordance with State reporting requirements and the Navy Spill Response and Reporting SOP. A copy of all 5-day letters generated, as well as a log of all reported spills, is retained on file by the Navy Spill Program Manager. A copy of the spill program SOP has been provided in appendix E.
    b. Illicit discharge surveys are scheduled to occur at the following installations as follows:
        i. Naval Air Station Oceana – Completed August 8, 2012.
        ii. Dam Neck Annex – Completed July 28-30, 2014.
        iii. Naval Station Norfolk – Schedule for PY2/PY3.
        iv. NSA Norfolk – Scheduled for PY2/PY3.
        v. JEBLC Fort Story – Underway – To be Complete during PY2.
        vi. JEB Little Creek – Scheduled for PY2/PY3.
        vii. Scott Center Annex – Underway; SOW date April 2014.
        viii. Naval Medical, Portsmouth – Underway SOW April 2014.

4. In accordance with MS4 General Permit Section II.B.4.f the operator of the permit shall track regulated land-disturbing activities and include the following information in the annual report submitted to the Department for the MS4 PY1 permit term. The information provided is for regulated construction activities performed at installations regulated under the Navy's MS4 Permit coverage.

a) The total number of regulated land-disturbing activities;
b) The total number of acres disturbed;
c) Total number of inspections performed;
d) A summary of enforcement actions taken.

Table 4.1:

# of Regulated Activities	# of Acres Disturbed	# of inspections

11	39.44	27
Summary of Enforcement Actions	There were 00 enforcement actions taken on any projects underway during PY1 at any of the Navy installations regulated under VAR040114.	

The Navy MS4 Program is currently executing a project with an A/E firm to strengthen the construction activity tracking and site inspection program. The objective of this project is to develop written inspection procedures for regulated land disturbing activities, and implement an inspection program in accordance with new requirements found within Section II.B.4 of the permit. The written inspection procedures shall be consistent with the requirements found in Section II.B.4 of the permit and shall identify the criteria utilized by the MS4 program to ensure construction site operators comply with the Virginia Erosion and Sediment Control Regulations and Virginia Stormwater Management Regulations. The written inspection procedures shall include the development of an inspection tracking mechanism and field inspection checklist(s), the criteria to ensure inspection personnel meet certification requirements identified in Section II.B.4(c)(3) of the permit, and will comply with the new inspection schedule found in Section II.B.4(c)(2) of the permit. The A/E will implement the inspection program with oversight and direction from the MS4 Program staff for all identified regulated land disturbing activities occurring at installations regulated under permit coverage VAR040114. This project will begin during PY2; with an anticipated cost of approximately $450,000. For additional information regarding this project see appendix C.

5. In accordance with the annual reporting requirements identified in MS4 General Permit Section II.B.5.e, the operator of the permit must include the following information in the annual report submitted to the Department for the MS4 PY1 permit term:

a) A copy of the stormwater management facility tracking and reporting database for all known stormwater management facilities that discharge into the MS4. A copy of this database can be found in appendix F of this report. The electronic database was updated during PY1 to include new columns for the new facility tracking elements included in Section II.B.5.(e)(1-9) of the permit.

b) The operator completed 228 inspections of stormwater facilities during PY1.

c) There were 00 enforcement actions during PY1.

d) There were 00 new stormwater facilities brought online during PY1.

6. **In accordance with the annual reporting requirements identified in MS4 General Permit Section II.B.6.g (1-4), The MS4 program submits the following information to the Department for PY1.**

a) A summary report on the development and implementation of the daily operational procedures:

In accordance with the Permit the operator must develop, within 24 months of permit coverage, written policies and procedures for good housekeeping and pollution prevention for operations. Navy installations, organizations, and platforms are already required to comply with OPNAV 5090.1D and operations manual OPNAV M-5090.1., Environmental Readiness Program Manual. This instruction and manual identifies the federal laws and regulations, executive orders, and Department of Defense & Department of Navy environmental policies applicable to Navy operations. All afloat and ashore commands are required to comply with the implementing policy guidance stated and established in this instruction and program manual. The policies, procedures, and actions required by this instruction are published without the necessity for further implementing instructions from the various commands and budget submitting offices, unless specifically directed otherwise. This document exceeds 900 pages and due to its size a copy of this instruction and program manual has not been included with this report. A copy can be provided located online or provided upon request.

b) A summary report on the development and implementation of the required SWPPP's:

In accordance with the General Permit Section II.B.6, within the first 12 months of permit coverage the operator identified locations that conduct "municipal" operations and will likely need to have stormwater pollution prevention plans developed. There were 48 facilities identified during this initial review. A spreadsheet which identifies these 48 facilities has been included in appendix G of this report. During PY2 the MS4 program is executing a project through an A/E firm which will identify which of the 48 facilities found during the operator's initial review have a high potential for discharging pollutants, and which are not covered under a separate VPDES permit. The A/E shall prepare the High Priority Municipal SWPPP's for each facility that is determined through field investigations to have a high potential for discharging pollutants. It is anticipated that all 48 facilities identified during PY1 by the operator will not require the development of SWPPP's. The project conducted by the A/E will be completed during PY2 and PY3. Additional information for this project can be found in appendix C.

c) A summary report on the development and implementation of the turf and landscape nutrient management plans, that include (i) the total acreage of lands where NMP's are required and (ii) the acreage of lands where NMP's have been implemented.

The MS4 Program is currently executing a project to be completed during PY2/PY3 with an A/E firm to develop nutrient management plans for four golf courses which are located at installations covered under the MS4 permit. NMP's will be developed for Sewell's Point Golf Course, at Naval Support Activity Hampton Roads; Eagle Haven Golf Course, at Joint Expeditionary Base Little Creek-Fort Story; The Tomcat and The Hornet at the Naval Air Station Oceana; and Aeropines Golf Club at Naval Air Station Oceana. The NMPs shall be developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia. The total acreage requiring nutrient management plans will identified as part of this project. Additional information for this project can be found in appendix C.

d) A summary report on the required training, including a list of training events, training dates, number of employees trained, and training objective.

The MS4 Program utilizes the Environmental Compliance Assessment, Training, and Tracking System (ECATTS) as the primary training mechanism to satisfy requirements found in MS4 Permit Section II.B.6. This system is designed to provide an understanding and awareness of the environmental requirements established by the United States Environmental Protection Agency (EPA), the United States Department of Defense (DoD), and the State for which each installation is located. For each annual reporting period for permit years #2 thru #5, the Operator will provide training information to include training module topic, date range, number trained, and objective for each of the ECATTS training modules that is applicable to MS4 General Permit Section II.B.6.d.(1-9) . A copy of the ECATTS course catalog which includes a list of all trainings provided through the web-based system has been provided in appendix H. New employees and contractors are typically required to complete training modules within ECATTS that are specific to their AOR's prior to working on an installation.

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Appendix A – MS4 Program Permit Year #1 Annual Reporting Data Table

Appendix B – E&S Control and SWM Plan Approval SOP's

Appendix C – MS4 Program Project Execution, MS4 PY1/PY2

Appendix D – Outfall Screening Data

Appendix E – Navy Spill Response and Reporting SOP; Hampton Roads Installations

Appendix F – Stormwater BMP Inventory and Reporting Database

Appendix G – List MS4 Facilities for SWPPP Development

Appendix H – ECATTS Training Course Catalog

Appendix A – PY1 Annual Reporting Data Table

Navy MS4 Stormwater Permit VAR040114 - Permit Year #1 Annual Reporting Data Table

MCM	BMP Number	BMP Name	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	PY1 Measurable Goals Progress	PY1 Status of Compliance
Chesapeake Bay TMDL	A-1	TMDL Action Plan	Develop and implement a Chesapeake Bay TMDL Action Plan.	In permit years 1 and 2, develop the TMDL Action Plan. In permit years 3 through 5 implement the action plan.	Retain a copy of the Chesapeake Bay TMDL Action Plan.	Phase II Water Program Media Manager	Will be developed during PY2 - PY3.		Compliant
Chesapeake Bay TMDL	A-2	Annual Reporting	Submit annual reports documenting the status of installing control measures.	Submit annual reports in permit years 3 through 5.	Record a list of control measured implemented, the corresponding pollutant reductions, and control measures to be implemented.	Phase II Water Program Media Manager	Will be submitted during PY3, PY4, and PY5.	N/A for PY1	N/A for PY1
Other TMDLs	B-1	TMDL Action Plans	Develop and implement TMDL Action Plan for WLAs.	A TMDL Action Plan for NASO will be developed in PY 1 through 2. TMDL Action Plans will be developed for NMCP and SCA during PY 1 through 3. Plans will be implemented after development.	Retain a copy of each TMDL Action Plan.	Phase II Water Program Media Manager	Will be developed during PY2 - PY3.		Compliant
1	1.1	Environmental Awareness Trainings for Target Audiences	Conduct training for the target audiences for the Three Priority Water Quality Issues.	In permit year 1, evaluate and update stormwater pollution prevention materials utilized as part of the Environmental Awareness Training Program. In permit years 2 through 5, revise the new materials as needed and conduct trainings annually including the Facilities Engineering Acquisition Division (FEAD).	Track the number of trainings conducted pertaining to each of the priority water quality issues and the number of people trained.	Phase II Water Program Media Manager and Installation Water Program Media Manager	Annually		Compliant
1	1.2	Stormwater Management Training through ECATTS	Conduct training for the target audiences through the ECATTS or the web-based Environmental Compliance Assessment, Training, and Tracking System.	In permit years 1 through 5 annually review and update as needed the ECATTS stormwater training modules.	Record and report the number of people trained on each stormwater training module presented through ECATTS.	Phase II Water Program Media Manager and Installation Water Program Media Manager	Annually		Compliant
1	1.3	Stormwater Education Brochures	Brochures for the Three Priority Water Quality Issues will be developed and distributed.	In permit years 1 through 5, on a semi-annual basis distribute stormwater educational brochures to targeted areas.	Retain a copy of each brochure distributed and record the date, location, and number of brochures distributed.	Phase II Water Program Media Manager	Semi-Annually		Brochure distibution is being performed during PY2. Brochure order not fullfilled during PY1.

MCM	BMP Number	BMP Name	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	PY1 Measurable Goals Progress	PY1 Status of Compliance
1	1.4	Newspaper Articles and Ads	Place articles and/or ads in installation newspapers such as the Flagship and Jet Observer or Plan of the Week emails.	On a semi-annual basis, in permit years 1 through 5 include at least one article/ad in base publications addressing stormwater pollution prevention.	Retain a copy of all articles/ads published and record the dates of publication.	Phase II Water Program Media Manager	Semi-Annually		Compliant
1	1.5	External Website	Maintain a website that the general public can access that includes information about stormwater education.	In permit years 1 update the NAVFAC website with MS4 Program information. In PY2-PY5 maintain the website and update content as needed.	Document the updates made to the website each permit year and track the number of hits that the website has per year .	Phase II Water Program Media Manager	Annually		External website updates to include MS4 Program outreach material are currently being pursued.
1	1.6	Car Wash Areas	Place articles in installation newspapers and/or in the "Plan of the Week" about the designated car wash areas.	In permit years 1 through 5, track the number of time each installation's car wash area is used.	Retain copies of all articles or SOP's published related to car washing. Track the number of times each car wash is used.	Phase II Water Program Media Manager	Annually		Compliant
1	1.7	Evaluation and Assessment	Annually evaluate and assess the Public Education and Outreach Program to effectiveness	In permit years 1 through 5, on an annual basis, estimate the number of people reached and the percentage of people reached in each target audience. Address any weakness or shortcomings as necessary.	In accordance with Section II of 4VAC50-60-1240.	Phase II Water Program Media Manager	Annually		Compliant
2	2.1	Post the MS4 Program Plan and Annual Report	Make the stormwater program plan and other stormwater program information available through the website.	In permit year 1, post the MS4 Program Plan on the website and notify the public through the Plan of the Week of its availability for review. In permit years 2 through 5, update as needed the MS4 Program Plan as needed and post the Annual Report in accordance with Section II of 4VAC50-60-1240. Provide for receipt of comment.	Track all comments and responses received from public reviews.	Phase II Water Program Media Manager	Continuously		Compliant
2	2.2	Storm Drain Marking Program	Place storm drain markers on inlets to the MS4 reminding the public that flows that drain into the system go directly to streams and waterways.	In permit year 1, evaluate and target areas for storm drain marking efforts. In permit years 2 through 5, conduct annual storm drain marking efforts	Record location, date, number of storm drains marked, and if applicable the number of volunteer participants for each storm drain marking event	Phase II Water Program Media Manager	Annually		Compliant

MCM	BMP Number	BMP Name	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	PY1 Measurable Goals Progress	PY1 Status of Compliance
2	2.3	Local Activity Participation	Participate during the Annual Clean the Bay Day and Earth Day Events held at the installation. Outreach information will be distributed during these events.	In permit years 1 through 5, promote installation participation in the Clean the Bay Day and Earth Day Events at various installations.	For Clean the Bay Day, record the number of volunteers utilized and an estimate of the volume of litter collected. For both events, document outreach materials distributed.	Phase II Water Program Media Manager	Annually		Compliant
2	2.4	Evaluation and Assessment	Annually evaluate and assess compliance.	In permit years 1 through 5, on a annual basis, evaluate and assess progress towards meeting measurable goals.	In accordance with Section II of 4VAC50-60-1240.	Phase II Water Program Manager	Annually		Compliant
3	3.1	Maintain Storm Sewer System Map	Maintain an accurate storm sewer system map in accordance with Section II of 4VAC50-60-1240.	In permit year 1, identify required updates to the storm sewer system map at each installation. In permit years 2 and 3, update the maps accordingly. In permit years 4 and 5, maintain and update the mapping as needed.	Record revision dates on storm system mapping for each regulated installation.	Installation Water Program Media Managers; Phase II Water Program Media Manager	Annually		Compliant
3	3.2	Written Procedures and Dry Weather Screening	Develop and implement written procedures to detect, identify, and eliminate illicit discharges in accordance with Section II of 4VAC50-60-1240.	In permit year 1, finalize draft procedures to detect, identify and eliminate illicit discharges. These procedures will likely be identified as Standard Operating Procedures (SOP). In permit years 2 through 5, implement these final procedures.	Document the number of outfalls screened, the screening results, and other pertinent details. Document each investigation into a suspected illicit discharge. All reporting shall be in accordance with Section II of 4VAC50-60-1240.	Phase II Water Program Media Manager	Continuously		Compliant
3	3.3	Promote, Publicize, and Facilitate Public Reporting	Use reporting mechanisms such as hotlines, email, and website links to allow the public to report suspected illicit discharges.	In permit year 1, generate a hotline phone number, an email address, and/or a website link for public reporting of suspected illicit discharges. In permit years 2 through 5, publicize this information through public outreach BMPs.	Record the details (date, problem location, etc.) and number of the reports received using each reporting mechanism.	Phase II Water Program Media Manager	Continuously		Compliant
3	3.4	Public Education for Illicit Discharges	Through the use of BMPs identified in MCM#1 and MCM#2, educate the public regarding illicit discharges.	In permit years 1 through 5, include information addressing illicit discharges in the BMPs used in MCM#1 and MCM#2.	Retain copies of materials published and dates of publication. Document the number of people trained annually.	Phase II Water Program Media Manager	Annually		Compliant

MCM	BMP Number	BMP Name	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	PY1 Measurable Goals Progress	PY1 Status of Compliance
3	3.5	Spill Control Documentation	Report Spills to DEQ and DCR and document in accordance with the Spill Reporting and Documentation SOP.	In permit years 1 through 5, report spills to the proper authorities and retain a copy of the initial report and the 5-day spill letter.	Retain copies of all spill reports and letters.	Spill Program Media Manager	Continuously		Compliant
3	3.6	Evaluation and Assessment	Annually evaluate and assess the illicit discharge program for compliance and effectiveness.	In permit years 2 through 5, on a annual basis, evaluate and assess progress towards meeting measurable goals	In accordance with Section II of 4VAC50-60-1240.	Phase II Water Program Media Manager	Annually		Compliant
4	4.1	Legal Authority	Utilize legal authority to address discharges entering the MS4 from certain land-disturbing activities.	In permit year 1, identify and install legal mechanisms. In permit years 2 through 5, implement these policies and procedures.	Retain copies of documents outlining the policies and procedures.	Phase II Water Program Media Manager	Continuously		Compliant
4	4.2	Approval of Erosion and Sediment Control Plan	Require that all Erosion and Sediment Control Plans are approved prior to commencement of the land disturbing activity.	In permit year 1 conduct meetings with VDEQ to identify process and update internal SOP's. In PY2 through PY5 distribute and follow SOP's for Erosion and Sediment Control Plan approval.	Retain copies of all approved plans. Document the number of plans approved annually.	Phase II Water Program Media Manager; NAVFAC CI Division	Continuously		Compliant
4	4.3	VSMP Construction Permit Instruction	Maintain and enforce the VSMP Construction Permit Instruction.	In permit year 1, convert the VSMP Construction Permit Instruction to an internal SOP. In PY 1 through PY 5 distrbute and ensure adherance to SOP.	Track number of VSMP Permits obtained for regulated activities.	Phase II Water Program Media Manager	Continuously		Compliant
4	4.4	Construction Activity SWMP & SWPPP Review	Review SWMPs and SWPPPs to ensure that each plan is consistent with the requirements set forth in the Virginia Stormwater Management Regulations and the VSMP Construction Permit Instruction.	In permit year 1 conduct meetings with VDEQ to identify process and update internal SOP's. In PY2 through PY5 distribute and follow SOP's for Stormwater Management Plan approval.	Retain copies of all approved plans. Document the number of plans approved annually.	Phase II Water Program Media Manager; NAVFAC CI Division	Continuously		Compliant
4	4.5	Compliance and Enforcement Procedures	Document compliance inspection procedures and enforcement actions.	In permit years 1 through 2, develop the compliance inspection procedures and enforcement actions and conduct quarterly inspections. In permit years 3 through 5, implement these procedures in accordance with the permit requirements.	Retain copies of inspection procedures and enforcement actions.	Phase II Water Program Media Manager	Continuously		MS4 Program is implementing a project with an A/E to strengthen the construction activity tracking and inspection program and comply with new permit requirements.

MCM	BMP Number	BMP Name	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	PY1 Measurable Goals Progress	PY1 Status of Compliance
4	4.6	Tracking and Reporting	Track the number of regulated land-disturbing activities and corresponding information.	In permit years 1 through 2, track the number of land-disturbing activities and total disturbed acreage. In permit years 3 though 5, also track the number of inspections and number and type of enforcement actions.	Track the regulated land-disturbing activities in accordance with Section II of 4.VAC50-60-1240.	Phase II Water Program Media Manager	Continuously		Compliant
5	5.1	Legal Authority	Utilize legal authority to require that stormwater runoff controls are designed and installed in accordance with regulations.	In permit year 1, identify and install legal mechanisms. In permit years 2 through 5, implement these policies and procedures.	Retain copies of documents outlining the policies and procedures.	Phase II Water Program Media Manager	Continuously		Compliant
5	5.2	Inspection, Operation and Maintenance	Require long-term operation and maintenance procedures that include inspection schedules.	In permit year 1, develop operator-owned maintenance and inspection procedures in accordance with Section II of 4.VAC50-60-1240. In permit years 2 through 5, implement these inspection procedures.	Retain operator-owned maintenance and inspection procedures. Retain copies of the inspection reports.	Phase II Water Program Media Manager	Continuously		Compliant
5	5.3	Tracking and Reporting	Maintain a electronic database of all stormwater management facilities.	In permit year 1, update the existing database to include all of the requirements listed in Section II of 4.VAC50-60-1240. In permit years 2 through 5, update the database semi-annually.	Retain a copy of the most current stormwater management facility database.	Phase II Water Program Media Manager	Semi-Annually		Compliant
6	6.1	Written Policies and Procedures	Document policies and procedures to minimize or prevent pollutant discharge from various sources in accordance with Section II of 4.VAC50-60-1240.	In permit years 1 through 2, develop pollution prevention policies and procedures. In permit years 3 through 5, implement these policies and procedures.	Retain copies of the policy and procedural documents.	Phase II Water Program Media Manager	Continuously		Compliant
6	6.2	SWPPPs	Develop and implement SWPPPs in accordance with Section II of 4.VAC50-60-1240.	In permit year 1, identify the high-priority facilities. In permit years 2 through 4, develop a general SWPPP for these facilities. In permit year 5, implement this SWPPP at each high-priority facility and updated as necessary.	Retain a list of high-priority facilities and a copy of the SWPPP.	Phase II Water Program Media Manager	Continuously		Compliant
6	6.3	Turf and Landscape Nutrient Management	Develop and implement turf and landscape nutrient management plans in accordance with Section II of 4.VAC50-60-1240.	In permit year 1, identify the lands where turf and landscape nutrient management plans are required. In permit years 2 through 5, develop and implement these plans based on the phased approach found in Section II of 4.VAC50-60-1240.	Retain a list of lands requiring turf and landscape nutrient management plans and a copy of each plan.	Phase II Water Program Media Manager	Continuously		Compliant

MCM	BMP Number	BMP Name	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	PY1 Measurable Goals Progress	PY1 Status of Compliance
6	6.4	Training	Provide training in accordance with Section II of 4.VAC50-60-1240 on pollution prevention/good housekeeping to applicable personnel.	In permit year 1, develop a training schedule and program. Also, identify the applicable personnel and generate the training materials. In permit years 2 through 5, implement the training schedule.	Document each training event or ECATTS module. Include the date, number of employees, and training topic.	Phase II Water Program Media Manager	Continuously		Compliant
6	6.5	Tracking and Reporting	Provide annual summary reports on that status of requirements outlined in Section II of 4.VAC50-60-1240.	In permit years 1 through 5, provide a summary report on the development and implementation of daily operational procedures, SWPPPs, and nutrient management plans.	Retain a copy of the three summary reports.	Phase II Water Program Media Manager	Annually		Compliant

Appendix B – E&S Control and SWM Plan Approval SOP's

Erosion and Sediment Control Plan Guidance for CI Community, Virginia AOR's:

An Erosion and Sediment Control Plan shall be developed and submitted to the Virginia Department of Environmental Quality (DEQ) for review and approval for all regulated land disturbing activities greater than or equal to 10,000 square feet in size occurring at any Navy installations and annexes in Virginia.

All Erosion and Sediment Control Plans submitted to the State for approval shall comply with the criteria, techniques and methods specified in the Virginia Erosion and Sediment Control Law and Regulations.

The Virginia Erosion and Sediment Control Handbook (VESCH) includes in Chapter 6 guidance detailing E&S Control plan preparation. The VESCH should be utilized as a guidance document for all E&S Control plans that will be prepared and submitted to the Virginia DEQ for approval.

VESCH Chapter 6 Link Provided:
http://www.deq.state.va.us/Portals/0/DEQ/Water/StormwaterManagement/Erosion_Sediment_Control_Handbook/Chapter%206.pdf

E&S Control Plan submittal packages shall be mailed to the Virginia DEQ Office of Stormwater Management; attention Stormwater Plan Review Coordinator. The mailing address is:

Via Postal Mail
DEQ
Office of Stormwater Management, 10th Floor
Attn: Stormwater Plan Review Coordinator
PO Box 1105 Richmond, VA 23218

Via FedEx or UPS
DEQ
Office of Stormwater Management, 10th Floor
Attn: Stormwater Plan Review Coordinator
629 East Main Street
Richmond, VA 23219

E&S Control Plan submittal packages shall include the following items at minimum:

(1) Cover Letter (See enclosure #1)
(2) Full Size E&S Control Plan Sheets; folded to 8-1/2 x 11 (2 copies)
(3) Erosion and Sediment Control Narrative, including all required calculations. (2 copies)
(4) Completed copy of E&S Control Plan Checklist found in Chapter 6 of VESCH (See enclosure #2)

Use the cover letter template that is provided as enclosure #1 with this document and submit it along with your E&S plan submittal package. The cover letter template was developed to promote

consistency and ensure the required project information is submitted to all applicable parties. Copy Phillip Winslow of NAVFAC EV Core on submissions to the STATE as the representative for NAVFAC EV, and include half size plan sheets.

Mr. Phillip Winslow
NAVFAC Mid-Atlantic – Environmental
1510 Gilbert Street
Bldg N26, Rm 3208
Norfolk, Va. 23511

Please ADD the following NOTE to your E/S plan to meet requirements in section 62.1-44.15:55.(B) and Section 62.1-44.15:52 of the E&S law that requires the person responsible for carrying out the plan to certify that he will properly perform the erosion and sediment control measures included in the plan and shall comply with the provisions of this article.

*****ADD NOTE TO E&S CONTROL PLAN*****

"The Contractor selected to complete the regulated land disturbing activity as shown on these drawings is responsible for implementing the approved Erosion and Sediment Control Plan in conjunction with the project specification's. Prior to the commencement of this activity, in accordance with the Va. E&S Control Law, the Contractor shall designate an individual holding a certificate of competency with the State as the person responsible for carrying out the approved plan, and provide the name of this individual to the plan approving authority."

Enclosure #1: E&S Plan Submission Cover Letter

Date

Virginia Dept. of Environmental Quality
Office of Stormwater Management
629 East Main Street
Richmond, VA 23219

RE: U.S. Navy Project No.:
U.S. Navy Project Name:
Project Location:
Erosion and Sediment Control Plan Review Submission Package

Mr. Gavan:

For review and approval in accordance with the requirements of the Virginia Erosion and Sediment Control Law and Regulations, enclosed are the erosion and sediment control plan and narrative for the above referenced project.

Please use the contact information provided below if during your department's review of the enclosed submission package there are any questions or if additional information is required. Additionally, please copy Mr. Phillip Winslow on all correspondences sent related to this submittal.

Project Contact Information:
E&S Plan Engineer:
Contact Name:
Address:
Telephone No.:
Email Contact Information:

NAVFAC Environmental Compliance Representative:
Mr. Phillip Winslow
1510 Gilbert Street
Bldg N26, Rm 3208
Norfolk, Va. 23511
Phone: (757) 341-0382
Email: Phillip.Winslow@Navy.mil

Sincerely,

Submitting Person/Party

Enclosure: E&S Control Submittal Checklist
E&S Control Plan
E&S Control Narrative

Cc: NAVFAC CI
NAVFAC EV, Phillip Winslow

Enclosure #2: E&S Control Plan Submission Checklist

CHECKLIST

FOR EROSION AND SEDIMENT CONTROL PLANS

_____ Minimum Standards - All applicable Minimum Standards must be addressed.

NARRATIVE

_____ Project description - Briefly describes the nature and purpose of the land-disturbing activity, and the area (acres) to be disturbed.

_____ Existing site conditions - A description of the existing topography, vegetation and drainage.

_____ Adjacent areas - A description of neighboring areas such as streams, lakes, residential areas, roads, etc., which might be affected by the land disturbance.

_____ Off-site areas - Describe any off-site land-disturbing activities that will occur (including borrow sites, waste or surplus areas, etc.). Will any other areas be disturbed?

_____ Soils - A brief description of the soils on the site giving such information as soil name, mapping unit, erodibility, permeability, depth, texture and soil structure.

_____ Critical areas - A description of areas on the site which have potentially serious erosion problems (e.g., steep slopes, channels, wet weather/ underground springs, etc.).

_____ Erosion and sediment control measures - A description of the methods which will be used to control erosion and sedimentation on the site. (Controls should meet the specifications in Chapter 3.)

_____ Permanent stabilization - A brief description, including specifications, of how the site will be stabilized after construction is completed.

_____ Stormwater runoff considerations - Will the development site cause an increase in peak runoff rates? Will the increase in runoff cause flooding or channel degradation downstream? Describe the strategy to control stormwater runoff.

_____ Calculations - Detailed calculations for the design of temporary sediment basins, permanent stormwater detention basins, diversions, channels, etc. Include calculations for pre- and post-development runoff.

Checklist (continued)

SITE PLAN

_____ Vicinity map - A small map locating the site in relation to the surrounding area. Include any landmarks which might assist in locating the site.

_____ Indicate north - The direction of north in relation to the site.

_____ Limits of clearing and grading - Areas which are to be cleared and graded.

_____ Existing contours - The existing contours of the site.

_____ Final contours - Changes to the existing contours, including final drainage patterns.

_____ Existing vegetation - The existing tree lines, grassed areas, or unique vegetation.

_____ Soils - The boundaries of different soil types.

_____ Existing drainage patterns - The dividing lines and the direction of flow for the different drainage areas. Include the size (acreage) of each drainage area.

_____ Critical erosion areas - Areas with potentially serious erosion problems. (See Chapter 6 for criteria.)

_____ Site Development - Show all improvements such as buildings, parking lots, access roads, utility construction, etc.

_____ Location of practices - The locations of erosion and sediment controls and stormwater management practices used on the site. Use the standard symbols and abbreviations in Chapter 3 of this handbook.

_____ Off-site areas - Identify any off-site land-disturbing activities (e.g., borrow sites, waste areas, etc.). Show location of erosion controls. (Is there sufficient information to assure adequate protection and stabilization?)

_____ Detail drawings - Any structural practices used that are not referenced to the E&S handbook or local handbooks should be explained and illustrated with detail drawings.

_____ Maintenance - A schedule of regular inspections and repair of erosion and sediment control structures should be set forth.

Stormwater Management Plan Guidance for CI Community, Virginia AOR's:

A Stormwater Management Plan shall be developed and submitted to the Virginia Department of Environmental Quality (DEQ) for review and approval for all regulated land disturbing activities greater than or equal to 1 acre in size occurring at any Navy installations and annexes in Virginia.

All Stormwater Management Plans submitted to the State for approval shall comply with the criteria, techniques and methods specified in the Virginia Stormwater Management Law and Regulations.

A Stormwater Management Plan submittal checklist is provided as enclosure #2 with this guidance.

Stormwater Management Plan submittal packages shall be mailed to the Virginia DEQ, Office of Stormwater Management; attention Stormwater Plan Review Coordinator. The mailing address is:

Via Postal Mail
DEQ
Office of Stormwater Management, 10th Floor
Attn: Stormwater Plan Review Coordinator
PO Box 1105 Richmond, VA 23218

Via FedEx or UPS
DEQ
Office of Stormwater Management, 10th Floor
Attn: Stormwater Plan Review Coordinator
629 East Main Street
Richmond, VA 23219

Stormwater Management Plan submittal packages shall include the following items at minimum:

(1) Cover Letter (Enclosure #1)
(2) Full Size SWM Plan Sheets; folded to 8-1/2 x 11 (2 copies)
(3) SWM plan supporting calculations. (2 copies)
(4) Completed copy of SWM Plan Submittal Checklist (See enclosure #2)

Use the cover letter template that is provided as enclosure #1 with this document and submit it along with your SWM Plan package. The cover letter template was developed to promote consistency and ensure the required project information is submitted to all applicable parties. Copy Phillip Winslow of NAVFAC EV Core on submissions to the STATE as the representative for NAVFAC EV, and include half size plan sheets.

Mr. Phillip Winslow
NAVFAC Mid-Atlantic – Environmental
1510 Gilbert Street
Bldg N26, Rm 3208, Norfolk, Va. 23511

Enclosure #1: SWM Plan Submission Cover Letter

Date

Virginia Dept. of Environmental Quality
Office of Stormwater Management
629 East Main Street
Richmond, VA 23219

RE: U.S. Navy Project No.:
U.S. Navy Project Name:
Project Location:
Stormwater Management Plan Review Submission Package

Mr. Gavan:

For review and approval in accordance with the requirements of the Virginia Stormwater Management Law and Regulations, enclosed are the SWM plan and supporting calculations for the above referenced project.

Please use the contact information provided below if during your department's review of the enclosed submission package there are any questions or if additional information is required. Additionally, please copy Mr. Phillip Winslow on all correspondences sent related to this submittal.

Project Contact Information:
SWM Plan Engineer:
Contact Name:
Address:
Telephone No.:
Email Contact Information:

NAVFAC Environmental Compliance Representative:
Mr. Phillip Winslow
1510 Gilbert Street
Bldg N26, Rm 3208
Norfolk, Va. 23511
Phone: (757) 341-0382
Email: Phillip.Winslow@Navy.mil

Sincerely,

Submitting Person/Party

Enclosure: SWM Submittal Checklist
SWM Plan
SWM Plan Supporting Calculations

Cc: NAVFAC CI
NAVFAC EV, Phillip Winslow

Enclosure #2: SWM Plan Submission Checklist

PLAN SUBMITTER'S CHECKLIST

FOR STORMWATER MANAGEMENT PLANS

Please fill in all blanks and reference the plan sheets/pages where the information may be found, where appropriate, or write N/A by items that are not applicable.

GENERAL

Plan Submission Date _____
Project Name _____
VSMP Permit Number _____
Site Plan Number _____
Site Address _____
Applicant _____ Phone Number _____
Applicant Legal Address _____
Owner _____ Phone Number _____
Principal Designer _____ Phone Number _____

_____ Professional's seal - The designer's original seal, signature, and date are required on the *cover* sheet of each Narrative and each set of Plan Sheets. A facsimile is acceptable for subsequent Plan Sheets.

_____ Number of plan sets – Attach two sets of SWM Plans.

_____ Exceptions - Exceptions requested are governed by Section 9VAC25-870-57 of the *Virginia Stormwater Management Regulations*.

_____ Local Consideration – Provide contact information for the locality's plan review coordinator.
Name _____ Phone Number _____
Address _____

_____ Grandfathering - Attach supporting documentation consistent with the requirements of Section 9VAC25-870-48 of the *Virginia Stormwater Management Regulations*.

_____ Offsite Compliance – Attach letter of availability from the off-site provider as governed by Section 9VAC25-870-55 of the *Virginia Stormwater Management Regulations*.

PROJECT NAME: _____ SUBMITTAL#: _____

PLANS DATED: _____

CHECKLIST PREPARER

I certify that I am a professional in adherence to all minimum standards and requirements pertaining to the practice of that profession in accordance with Chapter 4 (§ 54.1-400 et seq.) of Title 54.1 of the Code of Virginia and attendant regulations. By signing this checklist I am certifying that this document and all attachments are, to the best of my knowledge and belief, true, accurate, and complete.

SIGNATURE _____

PRINTED NAME _____

QUALIFICATIONS _____

DATE _____

PROJECT NAME: _____ SUBMITTAL#: _____

PLANS DATED: _____

SITE PLANS

Please reference the plan sheet numbers where the information may be found.

_____ Common address and legal description of the site, including the tax reference number(s) and parcel number(s) of the property or properties affected.

_____ A narrative that includes a description of current site conditions and proposed development and final site conditions, including proposed use of environmental site design techniques and practices, stormwater control measures, relevant information pertaining to long-term maintenance of these measures, and a construction schedule.

_____ Existing and proposed mapping and plans (recommended scale of 1" = 50', or greater detail), which illustrates the following at a minimum:

☐ North arrow
☐ Legend
☐ Vicinity map
☐ Existing and proposed topography (minimum of 2-foot contours recommended)
☐ Property lines
☐ Perennial and intermittent streams
☐ Mapping of predominant soils from USDA soils surveys as well as the location of any site-specific test bore hole investigations that may have been conducted and information identifying the hydrologic characteristics and structural properties of soils used in the installation of stormwater management facilities
☐ Boundaries of existing predominant vegetation and proposed limits of clearing and grading
☐ Location and boundaries of natural feature protection and conservation areas (e.g.,wetlands, lakes, ponds, aquifers, public drinking water supplies, etc.) and applicable setbacks (e.g., stream buffers, drinking water well setbacks, septic drainfield setbacks, building setbacks, etc.)
☐ Identification of any on-site or adjacent water bodies included on the Virginia 303(d) list of impaired waters
☐ Current land use and location of existing and proposed roads, buildings, parking lots and other impervious areas
☐ Location and description of any planned demolition of existing structures, roads, etc.
☐ Proposed land use(s) with a tabulation of the percentage of surface area to be adapted to various uses, including but not limited to planned locations of utilities, roads, parking lots, stormwater management facilities, and easements
☐ Location of existing and proposed utilities [e.g., water (including wells), sewer (including septic systems), gas, electric, telecommunications, cable TV, etc.] and easements
☐ Earthwork specifications
☐ Selection, ~~location~~ geographic coordinates and design of both structural and non-structural stormwater control measures, including maintenance access and limits of disturbance
☐ Storm drainage plans for site areas not draining to any BMP(s)
☐ Location of existing and proposed conveyance systems, such as storm drains, inlets, catch basins, channels, lateral groundwater movement interceptors (french drains, agr tile drains, etc.), swales, and areas of overland flow, including grades, dimensions, and direction of flow
☐ Final drainage patterns and flow paths
☐ Location of floodplain/floodway limits and relationship of site to upstream and downstream properties and drainage systems

PROJECT NAME: _____ SUBMITTAL#: _____

PLANS DATED: _____

☐ Location of all contributing drainage areas and points of stormwater discharge, receiving surface waters or karst features into which stormwater discharges, the pre-development and post-development conditions for drainage areas, and the potential impacts of site stormwater on adjoining parcels
☐ Location and dimensions of proposed channel modifications, such as bridge or culvert crossings
☐ Final stabilization and landscaping plans

_____ Hydrologic and hydraulic analysis, including the following:

☐ Site map with locations of design points and drainage areas (size in acres) for runoff calculations
☐ Identification and calculation of stormwater site design credits, if any apply
☐ Estimates of unified stormwater sizing criteria requirements
☐ Time of concentration (and associated flow paths)
☐ Imperviousness of the entire site and each drainage area
☐ NRCS runoff curve numbers or volumetric runoff coefficients
☐ A hydrologic analysis for the existing (pre-development) conditions, including runoff rates, volumes, and velocities, showing the methodologies used and supporting calculations
☐ A hydrologic analysis for the proposed (post-development) conditions, including runoff rates, volumes, and velocities, showing the methodologies used and supporting calculations
☐ Hydrologic and hydraulic analysis of the stormwater management system for all applicable design storms
☐ Pollution load and load reduction requirements and calculations
☐ Final good engineering and sizing calculations for stormwater control measures, including contributing drainage areas, storage, and outlet configurations, verifying compliance with the water quality and water quantity requirements of the regulations
☐ Stage-discharge or outlet rating curves and inflow and outflow hydrographs for storage facilities
☐ Final analysis of the potential downstream impacts/effects of the project, where necessary
☐ Downstream analysis, where detention is proposed
☐ Dam safety and breach analysis, where necessary

_____ Representative cross-section and profile drawings and details of stormwater control measures and conveyances which include the following:
☐ Existing and proposed structural elevations (e.g., inverts of pipes, manholes, etc.)
☐ Design water surface elevations
☐ Structural details of BMP designs, outlet structures, embankments, spillways, grade control structures, conveyance channels, etc.

_____ Applicable construction and material specifications, including references to applicable material and construction standards (ASTM, etc.)

_____ Landscaping plans for stormwater control measures and any site reforestation or revegetation

PROJECT NAME: _____ SUBMITTAL#: _____

PLANS DATED: _____

_____ Long term operations and maintenance plan/agreement as governed by 9VAC25-870-112 of the Virginia Stormwater Management Program Regulations.

_____ Evidence of acquisition of all applicable local and non-local permits

_____ Waiver/exception requests

_____ Evidence of acquisition of all necessary legal agreements (e.g., easements, covenants, land trusts, etc.)

_____ Applicable supporting documents and studies (e.g., infiltration tests, geotechnical investigations, TMDLs, flood studies, etc.)

_____ Other required permits: _____

PROJECT NAME: _____ SUBMITTAL#: _____

PLANS DATED: _____

Appendix C – MS4 Program Permit Year #1 Project Execution

Project #1 – 2014 MS4 Construction Site Inspections for H.R. Installations

16 July 2014

APPENDIX A

1. A/E Contract No.: N62470-10-D-3009 CTO
Work Order Number: 1365334

Project Title/Location: 2014 Municipal Separate Storm Sewer System Construction Site Inspections for Hampton Roads Installations

Attachment:

(a) Scope of Work dated 16 July 2014

2. NAVFAC MidLant Navy Contracting Officer Representative (COR):

Dialis B. Figueroa Arriaga, Code EV14
757.341.0425, dialis.figueroa-arri@navy.mil

The NTR is the NAVFAC MidLant point of contact on technical matters.

NAVFAC MidLant Contract Specialist:

TBD, Code AQ
757.341.xxxx, xxx@navy.mil

The A/E's responsibility is directly to the Contracting Officer via the Contract Specialist, Contracting Officer Representative (COR). Any requested change/deviation in scope must be brought to the attention and/or approved by the Contracting Officer. In no case will changes to the contract scope be made at the Activity level or by any person other than the Contracting Officer.

3. Activity Point of Contact:

Phillip Winslow, Code EV14
757.341.0382, phillip.winslow@navy.mil

4. Schedule of Fees

	Award
Engineering Services	$_____
Travel and Subsistence	$_____
TOTAL DELIVERY ORDER VALUE:	$_____

5. Project Milestones:

TASKS	Submittal Dates
Kickoff meeting	15 days after award
Draft Construction Site Inspection Procedures	30 days after kick off meeting
Final Construction Site Inspection Procedures	15 days after government comments
Construction Site Inspection Report	By the 10th of the month

CCD: November 30, 2015

6. Scope Description: See attachment (a).

7. Project Submittal Distribution:

Deliverable	COR	MS4 Program Manager
Kick off Meeting Minutes	1 electronic copy	1 electronic copy
Draft Construction Site Inspection Procedures	1 hard copy, 1 electronic copy	1 hard copy, 1 electronic copy
Final Construction Site Inspection Procedures	1 hard copy, 1 electronic copy	2 hard copy, 2 electronic copy
Draft Inspection Tracking Mechanism	1 hard copy, 1 electronic copy	1 hard copy, 1 electronic copy
Final Inspection Tracking Mechanism	1 hard copy, 1 electronic copy	1 hard copy, 1 electronic copy
Construction Site Inspection Report (by the 10th of the month)	1 electronic copy	1 electronic copy

MAILING ADDRESSES:

COMMANDING OFFICER
NAVFAC MIDLANT
CODE EV14 ATTN: DIALIS B. FIGUEROA ARRIAGA
9742 MARYLAND AVE
NORFOLK VA 23511-3095

Copy of all correspondence (without enclosures) to the Contract Specialist:

COMMANDING OFFICER
NAVFAC MIDLANT
CODE OPHRAQ__ ATTN: TBD
9742 MARYLAND AVE
NORFOLK, VA 23511-3095

16 July 2014

SCOPE OF WORK

2014 Municipal Separate Storm Sewer System Construction Site Inspections for Hampton Roads Installations

I. Background

In December 1999, the National Pollutant Discharge Elimination System (NPDES) program was expanded to include provisions for discharges from small municipal separate storm sewer systems (MS4s). The second phase of the regulations, Stormwater Phase II (64 Fed. Reg. 68722), extended the requirements for NPDES permits to stormwater discharges from: 1) "small" MS4s serving populations of less than 100,000 people in an "urbanized" area, and 2) construction activities disturbing between one and five acres of land. The regulations allowed the Environmental Protection Agency (EPA) to designate States as Stormwater Permitting Authorities, allowing each authorized State to administer and enforce stormwater requirements consistent with the NPDES program. As a delegated State, the Commonwealth of Virginia was required to put into practice an MS4 Phase II General Permit by 9 December 2002. The initial Virginia MS4 general permit became effective in 2003 and was valid for a 5 year permit cycle. The current permit cycle became effective on July 9, 2008 and also is valid for a 5 year permit cycle, expiring on July 8, 2013. The permit reissuance to occur in 2013 will require currently permitted operators of MS4 systems to submit new permit registration statements along with revised MS4 Stormwater Program Plans.

There are several Naval installations in the Commonwealth of Virginia that meet the criteria for small MS4 designation and as such currently receive a consolidated permit coverage under the Virginia MS4 General Permit. The Naval installations currently covered under the Navy's Consolidated MS4 permit coverage, permit number VAR040114, as well as any installation now meeting the "regulated operator" criteria.

As referenced above, the Phase II MS4 regulations cover all small municipal separate storm sewer systems (MS4s) located within an "urbanized area" (UA). UAs constitute the largest and most dense areas of settlement, consisting of populations of greater than 50,000 people with a density of at least 1,000 people per square mile. UA calculations delineate boundaries around these dense areas of settlement and in doing so identify the areas of concentrated development. Small MS4s that are located within the boundaries of an "urbanized area" as defined by the latest decennial Census are required to obtain coverage under the Phase II MS4 General Permit.

Naval Installations that were located within urbanized areas as defined by the 2000 Census mapping and that received Phase II MS4 permit coverage under the current permit cycle are:

(1) Naval Station Norfolk
(2) Naval Support Activity, Hampton Roads (excluding NSA Northwest)
(3) Joint Expeditionary Base, Little Creek
(4) Joint Expeditionary Base, Fort Story
(5) Naval Air Station Oceana
(6) Dam Neck Annex
(7) Naval Medical Center Portsmouth
(8) Scott Center Annex

The permit contains requirements for Minimum Control Measures (MCM) which delineate how to maintain compliance with the permit. MCM4 requires the development of written inspection procedures as well as the establishment and implementation of an inspection program for regulated land disturbing activities.

II. Objective

The primary objective of this project is to develop written inspection procedures for regulated land disturbing activities, and implement an inspection program in accordance with the developed written procedures and the requirements identified in Section II.B.4 of the permit. The written inspection procedures shall be consistent with the requirements found in Section II.B.4 of the permit and shall identify the criteria utilized by the MS4 program to ensure construction site operators comply with the Virginia Erosion and Sediment Control Regulations and Virginia Stormwater Management Regulations. The written inspection procedures shall include the development of an inspection tracking mechanism and field inspection checklist(s), the criteria to ensure inspection personnel meet certification requirements identified in Section II.B.4(c)(3) of the permit, and must identify the inspection schedule to be followed as stated in Section II.B.4(c)(2) of the permit. This project shall also initiate and perform an inspection program for all identified regulated land disturbing activities, which is consistent with the developed written procedures and implemented in accordance with the schedule identified in the permit.

III. Tasks

Task A. Existing Data Collection and Review, Kickoff Meeting

The purpose of this meeting is to assemble stake holder personnel from the Navy to discuss the purpose of the project, identify key personnel that will be responsible for facilitating the project, and coordinate logistical requirements for the project.

The A/E will perform the following in the execution of this task:

a. prepare meeting agendas and materials for distribution at least five days prior to the scheduled meeting dates;
b. facilitate the meetings and keep minutes; and,
c. distribute meeting minutes and document the process for use as an attachment to the permit application.

Task B: Develop a Management Inspection Procedures for Construction Stormwater Management

Applicability:
Regulated land-disturbing activities that result in the disturbance of 10,000 square feet or greater of land area. (§ 10.1-560 of the Code of Virginia)

Task B.1: Develop Construction Site Inspection Procedures

The A/E shall develop written inspection procedures to ensure compliance with Section II B 4 of the MS4 Permit. The written procedures shall include all requirements and inspection program components to be implemented to comply with the MS4 permit. The written procedures shall include at minimum, an inspection schedule, a proposed reporting template and/or field inspection checklist(s), the description of each party's roles and responsibilities, staff certification requirements, record-keeping and reporting, among other pertinent procedural documentation. A draft document shall be provided to the Navy for review and comments. After the review has been completed, the A/E shall prepare the final document, which will be used to perform the construction site inspections, as required by Section II B 4 of the MS4 permit.

Task B.2: Construction Site Inspections

Task B.2.a: The A/E shall inspect land-disturbing activities for compliance with an approved erosion and sediment control plan or agreement in lieu of a plan in accordance with the minimum standards identified in 4VAC50-30-40 or with department-approved annual standards and specifications. A/E Inspections shall also ensure the implementation of appropriate controls to prevent non-stormwater discharges, such as wastewater, concrete washout, fuels and oils, and other illicit discharges identified during land-disturbing activity inspections in accordance with the permit. Assume 40 projects per year,

and 40 inspections per project per year. An option package could be proposed (to be discussed during negotiations) to include a maximum of five options of 30 inspections per option.

Task B.2.b: The A/E shall implement an inspection schedule for land-disturbing activities as follows:

1. Upon initial installation of erosion and sediment controls;
2. At least once during every two-week period;
3. Within 48 hours of any runoff-producing storm event; and
4. Upon completion of the project and prior to the release of any applicable performance bonds.

The inspections shall be conducted by personnel who hold a certificate of competence in accordance with 4VAC-50-50-40. Documentation of certification shall be made available upon request by the VESCP authority or other regulatory agency, and shall be kept with the inspection report. The A/E is not expected to attend to construction projects kick off meetings. The A/E will be notified by the Navy of the initiation of a construction project. The A/E is not expected to take action when a non-compliance issue rises during an inspection. The A/E shall notify the MS4 program manager, which will coordinate with the construction manager to address the situation. Also, if 48 hours after a rain event falls during the weekend, the A/E is expected to perform the inspection during the following business day.

Task C: Construction Site Inspection Report and Tracking Mechanism

Task C.1: The A/E will develop an Inspection Report tracking mechanism, in Microsoft Access®, that can be used to satisfy record-keeping and reporting requirement found in the permit. The mechanism shall be user friendly and capable of sorting and creating reports, shall be linked to field inspection checklist, and must include all of the information required by the permit. It shall allow for custom queries such as total number of regulated activities, total number of acres disturbed, total number of inspections conducted and total number of enforcement actions taken in any given period. Alternatively, the A/E could proposed a web-based live online system in lieu of the Microsoft Access® for the Navy's consideration. If the web-based live on-line system is chosen, the A/E shall pilot the system for 30 days before going live to address any possible issues. Also, at the end of the project, the A/E shall make available to the Navy the entire system, including programing and all data collected/created as part of the project.

Task C.1.a: The A/E will develop a draft user's manual for the tracking mechanism. A detailed outline of the user's manual will be presented for review and approval. At a minimum, the user's manual will:

1. describe the basic function of the tracking mechanism;
2. provide detailed explanations of the fields used;
3. provide references for the methodology and regulatory requirements included in the tracking mechanism;
4. provide one inspection reporting case study example for reference.

Task C.1.b: The A/E will provide a demonstration of the draft tracking mechanism to initiate a detailed discussion to assess what design modifications are desired prior to completing a final tracking mechanism.

Task C.1.c: Proposed modifications will be documented in a meeting summary written by the A/E. Once approved by the Navy, the meeting summary will become the framework for the final tracking mechanism.

TaskC.1.d: The A/E will incorporate the approved modifications into the final tracking mechanism and user's manual.

Task C.1.e: The A/E will conduct a training session and presentation on the basic use and operation of the final tracking mechanism. The presentation will include an overview of how the tracking mechanism can be used to produce reports, create custom queries, sorting, among other features. The presentation will also include multiple (3) project case studies and an example exercise.

Task C.2: The A/E shall provide a report on all inspections preformed during a 30 days period no later than the tenth day of the following month. The report shall be provided using the Inspection Tracking mechanism developed in Task C.1 and shall also include at minimum:

1. Total number of regulated land-disturbing activities;
2. Total number of acres disturbed;
3. Total number of inspections conducted; and
4. A summary of the enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period.
5. Copies of all complete field inspection checklists completed.

III. Meetings and Submittals

a) Kickoff meeting: The A/E shall meet with representatives of NAVFAC MidLant to discuss the statement of work, logistics in performing the work, and any assistance that may be required.
b) The A/E will meet with NAVFAC MidLant COR and MS4 Program Manager to define the current storm water program and to obtain input on the feasibility of inspection program options.
c) Draft Construction Site Inspection Procedures: Draft Construction Site Inspection Procedures will be submitted to both NAVFAC MidLant COR and MS4 Program Manager for evaluation and comments.
d) Site Inspection Reports: Shall be available by the 10th of the month
e) Draft Construction Site Inspection Tracking Mechanism: Draft tracking mechanism will be submitted to both NAVFAC MidLant COR and MS4 Program Manager for evaluation and comments. A meeting shall be coordinated to discuss the user manual and comments to the draft tracking mechanism. Also, the A/E shall provide a demonstration/training session once the tracking mechanism is completed.
f) Project Progress Reports: Shall be available by the 10th of the month

IV. Special Instructions

1. The A/E is responsible for obtaining permission and clearance from the appropriate security personnel to enter and perform the required field work. RapidGate access will be required for all installations covered under the MS4 permit, as included on this SOW.
2. All field work shall be coordinated through the NAVFAC MidLant Navy Contracting Officer Representative (COR) (Dialis B. Figueroa Arriaga, 757.341.0425) and/or the MS4 Program Manager (Phillip Winslow, 757.341.0382).
3. The A/E is responsible for recording minutes of all meetings and furnishing a copy of the minutes to the NAVFAC MidLant COR.
4. The A/E shall forward all informal documents directly to NAVFAC MidLant Code EV14 upon request.
5. The A/E shall provide a monthly written progress report to the NAVFAC MidLant COR no later than the tenth day of each month.

Project #2 – 2014 Chesapeake Bay TMDL Action Plan for H.R. Installations

RFP APPENDIX A

Revised 2 September 2014
Date 13 June 2014

1. A/E Contract N62470-10-D-3000 CTO _____
WON: 1344874

Project Title/Location: **2014 Chesapeake Bay TMDL Action Plan for Hampton Roads Installations**

Attachment:

(a) Scope of Work dated 13 June 2014 (revised 2 September 2014)

2. Project Points of Contact (POC):

NAVFACENGCOM Mid-Atlantic Navy Technical Representative (NTR):
Dialis B. Figueroa Arriaga, Code EV14/757.341.0425
(Internet E-Mail: dialis.figueroa-arri@navy.mil)

The Contracting Officer has authorized the NTR to perform general oversight and technical administration of the negotiated contract. In that position the NTR may provide in-scope direction to the A&E, and assures the terms of the negotiated services. The NTR administers the scope and outside agency interface, and coordinates criteria and technical oversight within the IPT.

NAVFACENGCOM Mid-Atlantic Contract Specialist:

_____

(Internet E-Mail: _____)

The Contract Specialist is responsible for all contract terms, changes or deviations requiring contract adjustments. No changes to the contract scope will be made or additional work authorized without the prior approval of a Contracting Officer.

Activity POC:

NAVFAC Mid-Atlantic EV POC:
Phillip Winslow, Code EV14/757.341.0424
(Internet E-Mail: phillip.winslow@navy.mil

The Activity point of contact is provided for obtaining site access and site information.

3. Project Scope: See attachment (a)

4. Schedule of Fees: (To be filled in at conclusion of negotiations on A&E contracts)

Engineering Services: _____
Other Direct Costs: _____

Travel and Subsistence: _____
TOTAL CONTRACT TASK ORDER VALUE: _____
CTO MODIFICATION

5. Submittal Due Dates and Distribution:

The A/E of record shall begin work upon receipt of contract documents and pursue the work diligently in accordance with the date schedule established therein. **Provide your assessment of the schedule monthly to the NTR.**

Task	A/E's Submittal Dates	Copies to Activity	Copies to NTR
Kick off meeting	15 days after award	1 electronic (minutes)	1 electronic (minutes)
Draft DD 1391's	January 15, 2015	3 hard, 3 electronic	2 hard, 2 electronic
Draft Chesapeake Bay TMDL action plan (due to DEQ 30 June 2015)	January 15, 2015	3 hard, 3 electronic	2 hard, 2 electronic
Review Meeting	30 days after draft WIP	1 electronic (minutes)	1 electronic (minutes)
Final Chesapeake Bay TMDL Action Plan and 1391s	30 days after government comment	3 hard, 3 electronic	2 hard, 2 electronic

CCD: December 31, 2015

MAILING ADDRESSES: DIRECT DISTRIBUTION TO EACH ADDRESSEE BY A/E IS REQUIRED

NAVFAC MIDLANT NTR

COMMANDING OFFICER
NAVFAC MIDLANT
ATTN CODE EV14 (Dialis B. Figueroa Arriaga)
9742 MARYLAND AVE
NORFOLK VA 23511-3095

Revised 2 September 2014
13 June 2014

Scope of Work
Chesapeake Bay TMDL Action Plan for
Hampton Roads Installations

I. Background

In December 1999, the National Pollutant Discharge Elimination System (NPDES) program was expanded to include provisions for discharges from small municipal separate storm sewer systems (MS4s). The second phase of the regulations, Stormwater Phase II (64 Fed. Reg. 68722), extended the requirements for NPDES permits to stormwater discharges from: 1) "small" MS4s serving populations of less than 100,000 people in an "urbanized" area, and 2) construction activities disturbing between one and five acres of land. The regulations allowed the Environmental Protection Agency (EPA) to designate States as Stormwater Permitting Authorities, allowing each authorized State to administer and enforce stormwater requirements consistent with the NPDES program. As a delegated State, the Commonwealth of Virginia was required to put into practice an MS4 Phase II General Permit by 9 December 2002. The initial Virginia MS4 general permit became effective in 2003 and was valid for a 5 year permit cycle. The current permit cycle became effective on July 9, 2008 and also is valid for a 5 year permit cycle, expiring on July 8, 2013. The permit reissuance to occur in 2013 will require currently permitted operators of MS4 systems to submit new permit registration statements along with revised MS4 Stormwater Program Plans.

There are several Navy installations in the Commonwealth of Virginia that meet the criteria for small MS4 designation and as such currently receive a consolidated permit coverage under the Virginia MS4 General Permit. The Naval installations currently covered under the Navy's Consolidated MS4 permit coverage, permit number VAR040114. Naval Installations that were located within urbanized areas as defined by the 2000 Census mapping and that received Phase II MS4 permit coverage under the current permit cycle are:

(1) Naval Station Norfolk
(2) Naval Support Activity, Hampton Roads (excluding NSA Northwest)
(3) Joint Expeditionary Base, Little Creek
(4) Joint Expeditionary Base, Fort Story
(5) Naval Air Station Oceana
(6) Dam Neck Annex
(7) Naval Medical Center Portsmouth
(8) Scott Center Annex

The Action Plan should detail the current MS4 Permit Program and include the means and methods to be used to meet 5% of the Level 2 (L2) scoping run reduction for existing development. Level 2 implementation equates to an average reduction of 9% of nitrogen loads,16% of phosphorus loads, and 20% of sediment loads from impervious regulated acres and 6% of nitrogen loads, 7.25% of phosphorus loads and 8.75% sediment loads beyond 2009 progress loads and beyond urban nutrient management reductions for pervious regulated acreage.

The Navy has awarded several project to inventory existing stormwater control measures and assess opportunities to implement stormwater control measures at Hampton Roads installations (St. Juliens Creek Annex, NSA Portsmouth, JEB Fort Story, Scott Center Annex, JEB Little Creek, NAS Oceana, Naval Station Norfolk) that could reduce the pollutant loads for total nitrogen, total phosphorous, and total suspended solids to the Chesapeake Bay. This projects recommended several different opportunities at the each installation and conceptual designs were developed for a portion of the opportunities.

The MS4 permit for Hampton Roads installations was issues on 1 July 2013. The permit requires development and submittal of a Chesapeake Bay TMDL action plan to the Virginia Department of Environmental Quality (VDEQ) within two years of permit issuance.

II. Study Objective

The objective of this project is to prepare a Virginia DEQ Chesapeake Bay TMDL Action Plan as required by the MS4 permit, including the preparation of DD Form 1391 packages that can be used to secure funding for the stormwater control measures at Hampton Roads.

III. Technical Approach

Task A: Kickoff Meeting

The purpose of this meeting is to assemble stakeholders from the Navy to discuss the purpose of the project, identify key personnel that will be responsible for facilitating the project, and coordinate logistical requirements for the project.

Task B: Prepare Draft Virginia DEQ Chesapeake Bay TMDL Action Plan

B.1: The A/E shall calculate the existing source loads for the pollutants of concern and the required pollutant load reductions in accordance with Part II of the Virginia DEQ Chesapeake Bay TMDL Action Plan Guidance.

B.2: The A/E shall calculate credits for BMPs installed after July 1, 2009 (including retrofit BMPs and over-designed BMPs associated with new development and re-development) in accordance with Part III of the Chesapeake Bay TMDL Action Plan Guidance. The A/E shall calculate the projected pollutant load reduction for the conceptual designs (for all installations). The A/E shall also document and calculate pollutant removals for BMPs installed prior to 2009 to be presented to VDEQ for consideration.

B.3: The A/E shall meet with the Navy to discuss options for choosing the appropriate number of BMPs to achieve the required reduction.

B.4: The A/E shall develop a Chesapeake Bay Action Plan to achieve the additional reductions required to meet POC load reductions, in accordance with Part VI of the Virginia DEQ Chesapeake Bay TMDL Action Plan Guidance.

Task C: Develop Draft 1391s for Stormwater BMPs

C.1: The A/E shall prepare Draft DD Form “front page” 1391s for the stormwater BMPs based on the conceptual designs and cost estimates prepared for the Navy as part of the Stormwater BMP Opportunity Assessment project. One 1391 shall be prepared for the BMPs required to meet the 2018 pollutant reduction and one shall be prepared for the BMPs required to meet the 2023 pollutant reductions. The1391s shall be prepared in accordance with OPNAVINST 11010.20G FACILITIES PROJECTS INSTRUCTION and include the following: 1) date; 2) installation and location/UIC; 3) Project Title; 4) Project cost; 5) Cost estimates (including quantity, unit costs and total cost per item as well as a summary cost that including 15% contingency, 10% construction contingency and 8% SIOH); description of proposed construction; requirement information (including the project, current situation and impact if not provided).

C.2: The A/E shall attend a review meeting to discuss Navy comments to the draft Virginia DEQ Chesapeake Bay TMDL Action Plan and the draft 1391s. The A/E will prepare a summary of the review meeting and provide to the Navy.

Task D: Finalize Virginia DEQ Chesapeake Bay TMDL Action Plan and 1391s

The A/E will prepare a response to Navy comments, produce a final Virginia DEQ Chesapeake Bay TMDL Action Plan and complete final 1391s that address Navy comments from the draft report.

IV. Information Provided by the Navy

A. MS4 Permit
B. OPNAVINST 11010.20G FACILITIES PROJECTS INSTRUCTION
C. JEB Little Creek Opportunity Assessment and Conceptual Designs

V. Special Instructions

A. The A/E is responsible for obtaining permission and clearance from the appropriate installation(s) personnel to enter and perform the required fieldwork.
B. All fieldwork shall be coordinated in advance through the Contracting Officer Representative (COR)(Dialis B. Figueroa Arriaga 757.341.0425), and Hampton Roads installation(s) site personnel (to be provided to the A/E during the kick off meeting).
C. The A/E is responsible for preparing the agendas and recording the minutes of all meetings and furnishing copies to the COR and the Activity(s) POC. Agendas will be delivered five days prior to the meeting and the minutes will be delivered three days after the meeting.
D. The A/E shall forward all informal documents directly to the COR upon request.
E. The A/E shall provide a monthly written progress report to the COR and the contract specialist no later than the tenth day of each month.
F. The A/E shall not directly contact DEQ or other regulatory agencies without approval of the COR.
G. The A/E shall return all government-furnished information and documents by the completion of the project.

Project #3 – 2014 MS4 Program Implementation for H.R. Installations

26 June 2014

APPENDIX A

1. A/E Contract No.: CTO
Work Order Number: 1364005

Project Title/Location: 2014 Municipal Separate Storm Sewer System Program Implementation for Hampton Roads Installations

Attachment:

(a) Scope of Work dated 26 June 201~~2~~4

2. NAVFAC MidLant Navy Contracting Officer Representative (COR):

Dialis B. Figueroa Arriaga, Code EV14
757.341.0425, dialis.figueroa-arri@navy.mil

The NTR is the NAVFAC MidLant point of contact on technical matters.

NAVFAC MidLant Contract Specialist:

~~TBD~~Jeffrey Haycox, Code AQ
757.341.2074~~xxxx~~, ~~x~~jeffrey.haycox~~xx~~@navy.mil

The A/E's responsibility is directly to the Contracting Officer via the Contract Specialist, Contracting Officer Representative (COR). Any requested change/deviation in scope must be brought to the attention and/or approved by the Contracting Officer. In no case will changes to the contract scope be made at the Activity level or by any person other than the Contracting Officer.

3. Activity Point of Contact:

Phillip Winslow, Code EV14
757.341.0382, phillip.winslow@navy.mil

4. Schedule of Fees

	Award
Engineering Services	$_____
Travel and Subsistence	$_____
TOTAL DELIVERY ORDER VALUE:	$_____

5. Project Milestones:

TASKS	Submittal Dates
Kickoff meeting	15 days after award
Draft BMP Tracking Mechanism and Draft BMP Inspection Plan	~~October 15, 2014~~60 days after kick off meeting
Final BMP Tracking Mechanism and Final BMP Inspection Plan	~~20~~ 30 days after Government Comments
Draft High Priority Municipal SWPPPs	February 27, 2015
Final High Priority Municipal SWPPPs	~~20~~ 30 days after Government Comments
Draft Nutrient Management Plans	~~February 27~~April 5, 2015

Final Nutrient Management Plans	~~20~~ 30 days after Government Comments

CCD: November 30, 2015

6. Scope Description: See attachment (a).

7. Project Submittal Distribution:

Deliverable	COR	MS4 Program Manager
Meeting Minutes	1 electronic copy	1 electronic copy
Draft BMP Tracking and Draft BMP Inspection Plan	1 hard copy, 1 electronic copy	1 hard copy, 1 electronic copy
Final BMP Tracking and Final BMP Inspection Plan	1 hard copy, 1 electronic copy	2 hard copy, 2 electronic copy
Draft High Priority Municipal SWPPPs	1 hard copy, 1 electronic copy (for each SWPPP)	1 hard copy, 1 electronic copy (for each SWPPP)
Final High Priority Municipal SWPPPs	1 hard copy, 1 electronic copy (for each SWPPP)	2 hard copy, 2 electronic copy (for each SWPPP)
Draft Nutrient Management Plans	1 hard copy, 1 electronic copy (for each NMP)	1 hard copy, 1 electronic copy (for each NMP)
Final Nutrient Management Plans	1 hard copy, 1 electronic copy (for each NMP)	2 hard copy, 2 electronic copy (for each NMP)

MAILING ADDRESSES:

COMMANDING OFFICER
NAVFAC MIDLANT
CODE EV14 ATTN: DIALIS B. FIGUEROA ARRIAGA
9742 MARYLAND AVE
NORFOLK VA 23511-3095

Copy of all correspondence (without enclosures) to the Contract Specialist:

COMMANDING OFFICER
NAVFAC MIDLANT
CODE OPHRAQ__ ATTN: TBD
9742 MARYLAND AVE
NORFOLK, VA 23511-3095

26 June 2014

SCOPE OF WORK

2014 Municipal Separate Storm Sewer System
Program Implementation
for Hampton Roads Installations

I. Background

In December 1999, the National Pollutant Discharge Elimination System (NPDES) program was expanded to include provisions for discharges from small municipal separate storm sewer systems (MS4s). The second phase of the regulations, Stormwater Phase II (64 Fed. Reg. 68722), extended the requirements for NPDES permits to stormwater discharges from: 1) "small" MS4s serving populations of less than 100,000 people in an "urbanized" area, and 2) construction activities disturbing between one and five acres of land. The regulations allowed the Environmental Protection Agency (EPA) to designate States as Stormwater Permitting Authorities, allowing each authorized State to administer and enforce stormwater requirements consistent with the NPDES program. As a delegated State, the Commonwealth of Virginia was required to put into practice an MS4 Phase II General Permit by 9 December 2002. The initial Virginia MS4 general permit became effective in 2003 and was valid for a 5 year permit cycle. The current permit cycle became effective on July 9, 2008 and also is valid for a 5 year permit cycle, expiring on July 8, 2013. The permit reissuance to occur in 2013 will require currently permitted operators of MS4 systems to submit new permit registration statements along with revised MS4 Stormwater Program Plans.

There are several Naval installations in the Commonwealth of Virginia that meet the criteria for small MS4 designation and as such currently receive a consolidated permit coverage under the Virginia MS4 General Permit. The Naval installations currently covered under the Navy's Consolidated MS4 permit coverage, permit number VAR040114, as well as any installation now meeting the "regulated operator" criteria.

As referenced above, the Phase II MS4 regulations cover all small municipal separate storm sewer systems (MS4s) located within an "urbanized area" (UA). UAs constitute the largest and most dense areas of settlement, consisting of populations of greater than 50,000 people with a density of at least 1,000 people per square mile. UA calculations delineate boundaries around these dense areas of settlement and in doing so identify the areas of concentrated development. Small MS4s that are located within the boundaries of an "urbanized area" as defined by the latest decennial Census are required to obtain coverage under the Phase II MS4 General Permit.

Naval Installations that were located within urbanized areas as defined by the 2000 Census mapping and that received Phase II MS4 permit coverage under the current permit cycle are:

(1) Naval Station Norfolk
(2) Naval Support Activity, Hampton Roads (excluding NSA Northwest)
(3) Joint Expeditionary Base, Little Creek
(4) Joint Expeditionary Base, Fort Story
(5) Naval Air Station Oceana
(6) Dam Neck Annex
(7) Naval Medical Center Portsmouth
(8) Scott Center Annex

The permit contains requirements for Minimum Control Measures (MCM) which delineate how to maintain compliance with the permit. MCM5 requires developing a written Stormwater BMP inspection and maintenance procedures before June 30, 2015. MCM6 requires identifying municipal high-priority facilities that have a high potential of discharging pollutants, and to develop and implement specific stormwater pollution prevention plans for all high-priority facilities identified. MCM6 also requires the development and implementation of nutrient management plans for all lands where nutrients are applied to a contiguous area greater than one acre.

II. Objective

The primary objectives of this project is to develop a best management practices (BMP) tracking mechanism, develop a Stormwater BMP inspection and maintenance procedures, to develop and implement specific stormwater pollution prevention plans (SWPPP) for all high-priority facilities identified, and to develop nutrient management plans (NMP) for four golf courses.

III. Tasks

Task A. Existing Data Collection and Review, Kickoff Meeting

The purpose of this meeting is to assemble stake holder personnel from the Navy to discuss the purpose of the project, identify key personnel that will be responsible for facilitating the project, and coordinate logistical requirements for the project.

The A/E will perform the following in the execution of this task:

a. prepare meeting agendas and materials for distribution at least five days prior to the scheduled meeting dates;
b. facilitate the meetings and keep minutes; and,
c. distribute meeting minutes and document the process for use as an attachment to the permit application.

Task B: Develop a BMP Tracking Mechanism and BMP Inspections and Maintenance Procedures

Task B.1: The A/E will develop a BMP tracking mechanism, in Microsoft Access®, that can be used to update the BMP inspections required by the permit. The most recent BMP inventory shall be imported into the BMP tracking mechanism. The mechanism shall be user friendly and capable of sorting, creating reports, and include all the information required by the permit, as described in Section II B 5 e. It shall also allow for custom queries such as year constructed, BMP inspection type, inspection due date, among other common fields.

Task B.1.a: The A/E will develop a draft user's manual for tracking mechanism. A detailed outline of the user's manual will be presented for review and approval. At a minimum, the user's manual will:

1. describe the basic function of the tracking mechanism;
2. provide detailed explanations of the fields used;
3. provide references for the methodology and regulatory requirements included in the tracking mechanism;
4. provide one BMP case study example for reference.

Task B.1.b: The A/E will provide a demonstration of the draft tracking mechanism to initiate a detailed discussion to assess what design modifications are desired prior to completing a final tracking mechanism.

Task B.1.c: Proposed modifications will be documented in a meeting summary written by the A/E. Once approved by the Navy, the meeting summary will become the framework for the final tracking mechanism.

Task B.1.d: The A/E will incorporate the approved modifications into the final tracking mechanism and user's manual.

Task B.1.e: The A/E will conduct a training session and presentation on the basic use and operation of the final tracking mechanism. The presentation will include an overview of how the tracking mechanism can be used to produce reports, create custom queries, sorting, among other features. The presentation will also include multiple (3) project case studies and an example exercise.

Task B.2:
Task B.2.a: The A/E shall develop written BMP Inspections and Maintenance Procedures. The A/E shall also create an inspection template, which will be used to document the inspection and maintenance for the BMPs. The procedure shall be developed in accordance with the permit requirements under MCM5:

a. Written inspection report for all known Stormwater BMP's currently listed on the NAVFAC MIDLANT EV Stormwater BMP Inventory.
b. Inspection reports should document identified deficiencies along with recommended corrective actions and maintenance.
c. Photos should be obtained for all Stormwater BMP's to document condition and any identified deficiencies.
d. Inspections must be completed no later than March 30, 2015, to ensure compliance with the annual inspection/reporting requirement of the permit.

Task B.2.b: The A/E shall conduct inspections on all the BMPs included in the inventory. The inspection report shall be capture on the BMP tracking mechanism created under Task B.1, and discussed during the review meeting for the for the BMP tracking mechanism and the BMP inspection and maintenance procedures.

Task C: Preparation High Priority Municipal SWPPP

Task C.1: The Navy will provide the list of all municipal high- priority areas, which might include composting facilities, equipment storage and maintenance facilities, materials storage yards, pesticide storage facilities, public works yards, recycling facilities, salt storage facilities, solid waste handling and transfer facilities, and vehicle storage and maintenance yards. Assume no more than forty (40) areas to be evaluated and in need of a SWPPP.

Task C.2: The A/E shall identify which of the municipal high-priority facilities have a high potential of discharging pollutants. Municipal high-priority facilities that have a high potential for discharging pollutants are those facilities identified in Task C.1 that are not covered under a separate VPDES permit and which any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt or runoff:

a. Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater;
b. Materials or residuals on the ground or in stormwater inlets from spills or leaks;
c. Material handling equipment (except adequately maintained vehicles);
d. Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt)
e. Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants);
f. Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers;
g. Waste material except waste in covered, non-leaking containers (e.g., dumpsters);
h. Application or disposal of process wastewater (unless otherwise permitted); or
i. Particulate matter or visible deposits of residuals from roof stacks, vents or both not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater runoff.

Task C.3: The A/E shall prepare the High Priority Municipal SWPPP for each identified facility. The draft SWPPPs shall be provided for review and comments. The final SWPPPs shall incorporate all comments provided during the draft document review and comments discussed during the review meeting. The SWPPPs shall include:

a. A site description that includes a site map identifying all outfalls, direction of flows, listing source controls, and receiving water bodies
b. A discussion and checklist of potential pollutants and pollutant sources
c. A discussion of all potential non-stormwater discharges
d. Written procedures designed to reduce and prevent pollutant discharge

e. A description of the applicable training as required in Section II B 6 d in the permit
f. Procedures to conduct an annual comprehensive site compliance evaluation
g. An inspection and maintenance schedule for site specific source controls. The date of each inspection and associated findings and follow-up shall be logged in each SWPPP
h. The contents of each SWPPP shall be evaluated and modified as necessary to accurately reflect any discharge, release, or spill from the high priority facility reported in accordance with Section III G. For each such discharge, release, or spill, the SWPPP must include the following information: date of incident; material discharged, released, or spilled; and quantity discharged, released or spilled
i. A copy of each SWPPP shall be kept at each facility and shall be kept updated and utilized as part of staff training required in Section II B 6 d in the permit

Task D: Preparation of Nutrient Management Plans
The A/E shall develop NMPs for four golf courses covered under the MS4 permit (Sewell's Point Golf Course, at Naval Support Activity Hampton Roads; Eagle Haven Golf Course, at Joint Expeditionary Base Little Creek-Fort Story; The Tomcat and The Hornet at the Naval Air Station Oceana; and Aeropines Golf Club at Naval Air Station Oceana). The NMPs shall be developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia. The draft NMPs shall be provided for review and comments. The final NMPs shall incorporate all comments provided during the draft document review and comments discussed during the review meeting.

III. Meetings and Submittals

a) Kickoff meeting: The A/E shall meet with representatives of NAVFAC MidLant to discuss the statement of work, logistics in performing the work, and any assistance that may be required.
b) The A/E will meet with NAVFAC MidLant COR and MS4 Program Manager to define the current storm water program and to obtain input on the feasibility of BMP options.
c) Draft BMP Tracking Mechanism: Draft tracking mechanism will be submitted to both NAVFAC MidLant COR and MS4 Program Manager for evaluation and comments. A meeting shall be coordinated to discuss the user manual and comments to the draft tracking mechanism. Also, the A/E shall provide a demonstration/training session once the tracking mechanism is completed.
d) Draft High Priority Municipal SWPPPs: Draft High Priority Municipal SWPPP will be submitted to both NAVFAC MidLant COR and MS4 Program Manager. A review meeting should be scheduled to discuss comments to the SWPPPs.
e) Draft Nutrient Management Plan: Draft NMPs will be submitted to both NAVFAC MidLant COR and MS4 Program Manager. A review meeting should be scheduled to discuss comments to the NMPs.

IV. Special Instructions

1. The A/E is responsible for obtaining permission and clearance from the appropriate security personnel to enter and perform the required field work.
2. All field work shall be coordinated through the NAVFAC MidLant Navy Contracting Officer Representative (COR) (Dialis B. Figueroa Arriaga, 757.341.0425) and/or the MS4 Program Manager (Phillip Winslow, 757.341.0382).
3. The A/E is responsible for recording minutes of all meetings and furnishing a copy of the minutes to the NAVFAC MidLant COR.
4. The A/E shall forward all informal documents directly to NAVFAC MidLant Code EV14 upon request.
5. The A/E shall provide a monthly written progress report to the NAVFAC MidLant COR no later than the tenth day of each month.

Project #4 – 2014 MS4 Stormwater Mapping and IDDE Survey

11 April 2014

APPENDIX A

1. A/E Contract No.: N62470-13-D-8025 CTO
Work Order Number: 1344875

Project Title/Location: 2014 Stormwater Phase II Stormwater Mapping and Illicit Discharge Survey for NSA Portsmouth and Scott Center Annex

Attachment:

(a) Scope of Work dated 11 April 2014

2. NAVFAC MidLant Navy Technical Representative (NTR):

Dialis B. Figueroa Arriaga, Code EV14
757.341.0425, dialis.figueroa-arri@navy.mil

The NTR is the NAVFAC MidLant point of contact on technical matters.

NAVFAC MidLant Contract Specialist:

TBD, Code AQ
757.341.xxxx, xxx@navy.mil

The A/E's responsibility is directly to the Contracting Officer via the Contract Specialist, Contracting Officer Representative (COR). Any requested change/deviation in scope must be brought to the attention and/or approved by the Contracting Officer. In no case will changes to the contract scope be made at the Activity level or by any person other than the Contracting Officer.

3. Activity Point of Contact:

Phillip Winslow, Code EV14
757.341.0382, phillip.winslow@navy.mil

4. Schedule of Fees

	Award
Engineering Services	$_____
Travel and Subsistence	$_____
TOTAL DELIVERY ORDER VALUE:	$_____

5. Project Milestones:

TASKS	Submittal Dates
Kickoff meeting	15 days after award
IDS Report for NSA Portsmouth	October 17, 2014
IDS Report for Scott Center Annex	October 17, 2014
Draft Mapping NSA Portsmouth	October 17, 2014
Final Mapping NSA Portsmouth	20 days after Government Comments
Draft Mapping Scott Center Annex	October 17, 2014
Final Mapping Scott Center Annex	20 days after Government Comments

CCD: February 28, 2015

6. Scope Description: See attachment (a).

7. Project Submittal Distribution:

Deliverable	NTR	MS4 Program Manager
Kickoff meeting minutes	1 electronic	1 electronic copy
IDS Report for NSA Portsmouth	1 hard copy, 1 electronic copy	2 hard copy, 2 electronic copy
IDS Report for Scott Center Annex	1 hard copy, 1 electronic copy	2 hard copy, 2 electronic copy
Draft Mapping NSA Portsmouth	1 hard copy, 2 electronic copy	1 hard copy, 1 electronic copy
Final Mapping NSA Portsmouth	1 hard copy, 2 electronic copy	2 hard copy, 2 electronic copy
Draft Mapping Scott Center Annex	1 hard copy, 2 electronic copy	1 hard copy, 1 electronic copy
Final Mapping Scott Center Annex	1 hard copy, 2 electronic copy	2 hard copy, 2 electronic copy

MAILING ADDRESSES:

COMMANDING OFFICER
NAVFAC MIDLANT
CODE EV14 ATTN: DIALIS B. FIGUEROA ARRIAGA
9742 MARYLAND AVE
NORFOLK VA 23511-3095

Copy of all correspondence (without enclosures) to the Contract Specialist:

COMMANDING OFFICER
NAVFAC MIDLANT
CODE OPHRAQ__ ATTN: TBD
9742 MARYLAND AVE
NORFOLK, VA 23511-3095

11 April 2014

SCOPE OF WORK

2014 Stormwater Phase II Stormwater Mapping and Illicit Discharge Survey for NSA Portsmouth and Scott Center Annex

I. Background

In December 1999, the National Pollutant Discharge Elimination System (NPDES) program was expanded to include provisions for discharges from small municipal separate storm sewer systems (MS4s). The second phase of the regulations, Stormwater Phase II (64 Fed. Reg. 68722), extended the requirements for NPDES permits to stormwater discharges from: 1) "small" MS4s serving populations of less than 100,000 people in an "urbanized" area, and 2) construction activities disturbing between one and five acres of land. The regulations allowed the Environmental Protection Agency (EPA) to designate States as Stormwater Permitting Authorities, allowing each authorized State to administer and enforce stormwater requirements consistent with the NPDES program. As a delegated State, the Commonwealth of Virginia was required to put into practice an MS4 Phase II General Permit by 9 December 2002. The initial Virginia MS4 general permit became effective in 2003 and was valid for a 5 year permit cycle. The current permit cycle became effective on July 9, 2008 and also is valid for a 5 year permit cycle, expiring on July 8, 2013. The permit reissuance to occur in 2013 will require currently permitted operators of MS4 systems to submit new permit registration statements along with revised MS4 Stormwater Program Plans.

There are several Naval installations in the Commonwealth of Virginia that meet the criteria for small MS4 designation and as such currently receive a consolidated permit coverage under the Virginia MS4 General Permit. The Naval installations currently covered under the Navy's Consolidated MS4 permit coverage, permit number VAR040114.

As referenced above, the Phase II MS4 regulations cover all small municipal separate storm sewer systems (MS4s) located within an "urbanized area" (UA). UAs constitute the largest and most dense areas of settlement, consisting of populations of greater than 50,000 people with a density of at least 1,000 people per square mile. UA calculations delineate boundaries around these dense areas of settlement and in doing so identify the areas of concentrated development. Small MS4s that are located within the boundaries of an "urbanized area" as defined by the latest decennial Census are required to obtain coverage under the Phase II MS4 General Permit.

Naval Installations that were located within urbanized areas as defined by the 2000 Census mapping and that received Phase II MS4 permit coverage under the current permit cycle are:

(1) Naval Station Norfolk
(2) Naval Support Activity, Hampton Roads (excluding NSA Northwest)
(3) Joint Expeditionary Base, Little Creek
(4) Joint Expeditionary Base, Fort Story
(5) Naval Air Station Oceana
(6) Dam Neck Annex
(7) Naval Medical Center Portsmouth
(8) Scott Center Annex

The latest urbanized area maps generated from the 2010 Census will need to be reviewed to determine if the UA has increased, requiring that additional Naval installations in Virginia obtain Phase II MS4 permit coverage during the 2013 application process.

Waivers from regulatory coverage under the Virginia Phase II MS4 permit are available to MS4 operators who meet specific criteria as detailed in the NPDES regulations. The following Naval installations have applied for and received a waiver from the requirements of the Virginia MS4 General Permit regulations:

(1) New Gosport
(2) Southgate Annex
(3) Lafayette River Annex
(4) St. Helena's Annex,
(5) Yorktown Fuel Terminal,
(6) South Virginia Beach Annex

The permit contains requirements for Minimum Control Measures (MCM) which delineate how to maintain compliance with the permit. MMC3 requires Illicit Discharge Detection and Elimination and it also includes specific mapping requirements.

II. Objective

The primary objectives of this project are to perform an illicit discharge survey and prepare a report, and to produce storm water phase II mapping for NSA Portsmouth (NSA P) and Scott Center Annex (SCA).

III. Tasks

Task A. Existing Data Collection and Review, Kickoff Meeting
The purpose of this meeting is to assemble stake holder personnel from the Navy to discuss the purpose of the project, identify key personnel that will be responsible for facilitating the project, and coordinate logistical requirements for the project.

The A/E will perform the following in the execution of this task:

a. prepare meeting agendas and materials for distribution at least five days prior to the scheduled meeting dates;
b. facilitate the meetings and keep minutes; and,
c. distribute meeting minutes and document the process for use as an attachment to the permit application.

Task B: Illicit Discharges Survey for NSA P and SCA

Task B.1: Illicit Discharge Source Investigation:
The A/E will investigate the source(s) of dry weather flow for NSA P and SCA. Investigation may include visual observations, sonic testing, smoke testing, and/or dye testing.

Task B.2: Illicit Discharge Source Investigation Report
Produce a report that documents all illicit discharge source investigations and provides the sources of the flow, the nature of the discharge, and provides recommendations on whether the discharges should be rerouted to the sanitary sewer or obtain VPDES permit coverage.

Task C: Stromwater Phase II Mapping
The A/E shall develop and plot storm water maps for the entire installations (NSA P and SCA) which show, including but not limited to, buildings, roads, topography, storm drainage infrastructure (ditches, pipes, culverts, manholes, catch basins, curb inlets, headwalls, and outfalls), drainage basin boundaries, structure ID, structure type, pipe material, pipe size and flow direction. Attributes that might be captured from existing sources include structure type, pipe material, pipe size, and elevation (ground and invert) information. Additional data development requirements are outlined in Enclosure B 'GIS Data Specifications'. New collection of elevation (ground and invert) data is not required to be collected, but existing data must be included as part of the storm water maps.

Task C.1: Data Acquisition
Task C.1.1: Stormwater Infrastructure

Add in storm drainage infrastructure into GIS at up to 10 buildings that were constructed at the installations (NSA P and SCA). Existing infrastructure data shall be added by GPS survey. If GPS survey is used, only horizontal locations are required with an accuracy of less than 1 meter.

The A/E shall place demolished buildings on a separate layer in GIS, and show them in the stormwater maps on a different shade.

Task C.1.2: Stormwater Data
As a requirement under the MS4 permit (number VAR040114), the following should be added to the stormwater maps:

A. The location of all MS4 outfalls. In case where the outfall is located outside of the operator's legal responsibility, the operator may elect to map the known point of discharge location closest to the actual outfall. Each mapped outfall must be given a unique identifier, which must be noted on the map, and
B. The name and location of all waters receiving discharges from the MS4 outfalls and the associated HUC.
C. Collect stormwater data during field investigations and referring to the legend contained in Enclosure A, and physically plot icons on a separate layer on the mapping system. GPS coordinates are not required for the icons. Place icons on the map at the approximate locations and allow the GIS system to assign the proper coordinates (X, Y). The stormwater data to be collected, including but not limited to, is regulated industrial activities, outdoor material storage areas, above ground storage tanks, outdoor liquid transfer areas, loading and unloading areas, chemical application areas, leaks and spills, and existing best management practices.

Task C.2: Plotting Stormwater Phase II Maps
Develop and plot storm water maps for the entire installation (NSA P and SCA) which show buildings, roads, topography, storm drainage infrastructure (ditches, pipes, culverts, manholes, catch basins, curb inlets, headwalls, and outfalls), drainage basin boundaries, all outfalls, name and location of all waters receiving discharges from the MS4 outfalls and the associated HUC, regulated industrial activities, outdoor material storage areas, above ground storage tanks, outdoor liquid transfer areas, loading and unloading areas, chemical application areas, leaks and spills, and existing best management practices.

All GIS deliverables will be created and submitted in accordance with the current NAVFAC MIDLANT EV GIS Data Deliverable Specifications (see Enclosure B). All data collection, processing, and deliverables should conform to this document.

Task C.3: Produce a hard copy maps including impervious areas, paved areas, roads and buildings in color. The hard copy maps should include:

1. Pipe data on map adjacent to lines, showing the pipe material and size (inches)

2. Place outfall labels, drainage basin labels, pier numbers, road names and building numbers on the map.

3. Place stormwater phase II data on the map.

III. <u>Meetings and Submittals</u>

A. Kickoff meeting: The A/E shall meet with representatives of NAVFAC MidLant to discuss the statement of work, logistics in performing the work, and any assistance that may be required.
B. Draft Stormwater Phase II Maps review meeting: The A/E shall meet with representatives of NAVFAC MidLant to discuss comments to the maps for NSA P and SCA.

IV. Special Instructions

1. The A/E is responsible for obtaining permission and clearance from the appropriate security personnel to enter and perform the required field work.
2. All field work shall be coordinated through the NAVFAC MidLant Navy Technical Representative (NTR) (Dialis B. Figueroa Arriaga, 757.341.0425) and/or the MS4 Program Manager (Phillip Winslow, 757.341.0382).
3. The A/E is responsible for recording minutes of all meetings and furnishing a copy of the minutes to the NAVFAC MidLant NTR.
4. The A/E shall forward all informal documents directly to NAVFAC MidLant Code EV14 upon request.
5. The A/E shall provide a monthly written progress report to the NAVFAC MidLant NTR no later than the tenth day of each month.

Enclosure A

1. The Stormwater data to be collected, and included as icons, is:

a. Hazardous Material(HM)/Hazardous Waste(HW)/Petroleum, Oils and Lubricants(POL):
   1. Flammables in metal cabinets
   2. POLs
   3. Aboveground Diesel/Fuel Oil Tanks
   4. Aboveground Gasoline/JP-5/Kerosene Tanks
   5. Aboveground Used Oil Tanks
   6. Transformers and Electrical Substations
   7. Ethylene Glycol
   8. Flammable in drums/cans
   9. Solvents/Degreasers
   10. Acids/Corrosives
   11. Batteries
   12. Paint/Paint Waste
   13. Satellite HW Accumulation
   14. PCB Containment/Storage
   15. Biohazard Storage
   16. Waste in Drums

b. Exposed Industrial Activities
   1. Solid Waste Transfer
   2. HW Storage Area (<90days)
   3. Petroleum Bulk Storage
   4. Warehouse/Storage
   5. Marine/Land Vehicle Maintenance
   6. Washdown Areas
   7. Scrap recycling and waste recycling facilities
   8. Paint Booth

c. Areas of Chemical Applications
   1. Pesticides
   2. Herbicides
   3. Fertilizers

d. Material Storage Areas
   1. Vehicle/Equipment Storage
   2. Tire Storage
   3. Miscellaneous Construction Material Storage
   4. Miscellaneous metal Storage
   5. Dumpsters
      i. General trash
      ii. Scrap metal
      iii. Cardboard
      iv. Treated wood
      v. Untreated wood
   6. Gas cylinders
   7. Miscellaneous Plastic Storage
   8. Miscellaneous Rubber Storage
   9. Aboveground Fuel Tanks
   10. Asphalt/Sand/Aggregate Storage
   11. Empty Cans/Drums/Tanks

e. Materials Loading and Access Areas
   1. Fueling Stations
   2. Chemical Transfer
   3. Loading/Unloading Areas

f. Best Management Practices (BMPs)
   1. Bio-retention Areas

2. Oil Water Separators
3. Rain Gardens
4. Spill Kit/Absorbent Material
5. Booms
6. Vegetative Filters
7. Cyclones/Baghouses
8. Straw Bales

g. Leaks and Spills
   1. Diesel/JP-5
   2. Gasoline and others
   3. POLs
   4. Paint
   5. Sewage
   6. Acids/Corrosives
   7. Ethylene Glycol

Enclosure B

NAVFAC MIDLANT EV GIS Data Deliverable Specifications

Deliverable Requirements:

Geographic Information System Data: Geographic Information System (GIS) data deliverables shall conform to current Navy adaptation of the Spatial Data Standards for Facilities, Infrastructure, and Environment (SDSFIE) version 3.01 format. Such data will be natively collected using the WGS84 (World Geodetic System 1984) datum on the EGM96 (1996 Earth Gravitational Model) geoid, in the WGS 1984 Web Mercator (Auxiliary Sphere) projected coordinate system, using meters as the standard unit of measurement. All data shall be submitted in both a raw and post-processed form. Metadata shall be completed and included in an XML format, in accordance with the FGDC Content Standard for Digital Geospatial Data. At a minimum, the following metadata attributes will be populated:

a) Contact (Details) - *contact information for the data steward*
   i) Person K. Dean Wright
   ii) Organization NAVFAC MIDLANT EV
   iii) Position MIDLANT EV GIS Coordinator
   iv) Telephone 757-341-1259
   v) Email kelly.wright@navy.mil
b) Description – *characterization of the data*
   i) Abstract
   ii) Purpose
c) Time Period - *explains how current the dataset is*
   i) Currentness Reference
   ii) Date
d) Keywords – *word/phrase descriptors of the data*

2) Data Quality
   a) Positional Accuracy – *accuracy assessment of the data*
      i) Horizontal Accuracy Report
      ii) Vertical Accuracy Report *(if applicable)*
   b) Source Information – *list of sources and a short citation of each*
      i) Source Citation (Details)
         (1) Title
         (2) Originator
         (3) Publication Date
   c) Process Step – *an explanation of how/when the data was created*
      i) Process Description
      ii) Process Date
3) Spatial Reference
   a) Horizontal Coordinate System
   b) Vertical Coordinate System *(if applicable) – vertical datum information*
      i) Datum Name
      ii) Distance Units

Data Integrity

Data accuracy standards for all deliverables will be in accordance with those set forth in the section entitled 'Data Collection Procedures'. All deliverables should include an accuracy report in the metadata referencing an established standard such as NMAS or ASPRS.

The contractor shall employ appropriate QA/QC standards to ensure that data is topologically correct, accurate and complete (to include):

- No erroneous overshoots, undershoots, dangles or intersections in the line work

- Point and line features will be snapped together where appropriate to support networks. For example, do not break linear features for labeling or other aesthetic purposes.
- Lines should be continuous and point features should be digitized as points. For example, point features, such as manholes, should not be drawn using only a circle (polygon) to represent its location. Preferably, use an attribute block symbol that has an insertion point in the center of the manhole.
- No sliver polygons
- Digital representation of the common boundaries for all graphic features must be coincident, regardless of feature layer
- Geometric network connectivity must be maintained for utility networks.

A summary of the methods used to correct inconsistencies and any remaining errors by case should be included in the metadata under the 'Logical Consistency Report' and 'Completeness Report' sections.

Data Model

The geodatabase schema shall follow the Navy adaptation of the GIS Data Guide implementation of the SDSFIE data model and data layers will be captured accordingly. Information on the core SDSFIE data model can be found at: http://www.sdsfie.org, and information about the Navy adaptation of this data model will be provided by the NTR.

If new data is being created the contractor must provide the GRC with a data dictionary identifying all of the SDSFIE Entity Types, attributes, and/or domain values associated with the new feature(s), the geographic area(s) covered by the data and Spatial extent information prior to the creation/editing of GIS data. Acceptable formats: MS Excel, MS Word, PDF. Local attributes (meeting SDS experienced level) will require precise schema definitions.

Government Furnished Materials

The Government will provide the contractor access to necessary geospatial data (via file geodatabase), reports, schematics, or other pertinent information as described in the SOW.

When requesting data from the GRC, the contractor will identify the current SDSFIE feature classes or datasets they require. The government NTR will be contacted prior to the release of any information to verify requirements. A Limited-use/non-disclosure agreement may need to be completed prior to the release of any data.

The contractor must verify with the NTR that they are working with the most recent version of the dataset at the beginning of each contract and must delete any copies of data in their possession at the end of each contract. Copying of the database is prohibited.

Data Collection Procedures

All data collection must include:

Feature Attributes: The contractor shall work with NTR to identify appropriate attributes for the data collected. Examples include Primary Key field, classification, type, location, ID number, and any other necessary attributes (specified by the Government) for all new/updated/edited features first by field verification and then by existing sources.

Metadata must include an accuracy statement at the 90% or 95% confidence interval. Accuracy statements should include the method of determination, preferably from a recognized standard such as National Standard for Spatial Data Accuracy (NSSDA) (as outlined in "Geospatial Positioning Accuracy Standards, Part 3: National Standard for Spatial Data Accuracy," published by the Federal Geographic Data Committee (FGDC), dated July 1998).

Field Collection

Where field data collection is stipulated in the contract, the contractor shall utilize conventional and other methods, such as a total station or Global Positioning System (GPS) in accordance with the applicable Geospatial Positioning Accuracy Standards published by the Federal Geographic Data Committee (FGDC).

At a minimum, the contractor shall provide resource grade GPS collection at a horizontal accuracy level of +/- 1m and shall use differential correction to target accuracies of +/- .5 m.

Where appropriate (as stipulated in the contract or as otherwise determined by the Government), the contractor shall use survey grade GPS, at an accuracy level of +/- 10 cm. Global Positioning System (GPS) data collection activities will be based on a post-processed environment using an accurately sighted base station. Base station files for post-processing acquired locally (off-site CORS Continuous Operating Reference Station) will be verified for accuracy.

GPS data on the location of utility lines and other features shall be captured at a minimum every 50 ft and at each turn or bend in the line and processed as a line feature type. GPS data on the location of utility points and other features should be captured at the centroid of the feature unless signal obstruction or access prohibits; otherwise points will be captured at a uniform distance and direction from the centroid and the offset captured in the metadata for that feature. Data on polygon features will be collected at every vertex of the feature and processed as a polygon.

A digital Survey Control Database (consisting of a survey marker database and a survey traverse database) will be produced for all survey control points established under this contract, including the horizontal and vertical order and coordinate location of each point.

Data Submittal Environments

The contractor will be required to deliver a copy of all data in ArcGIS personal geodatabases. Data submittals must match the current version of the GRC repository (on a project specific basis as discussed in Government Furnished Materials section).

The Contractor will provide three (3) complete sets of the project ArcGIS file geodatabase. Specific transmittal instructions will be provided to the Contractor when the data is ready to be delivered.

Acceptable Delivery Media:

- CD-ROM
- DVD-ROM
- External Hard Drives (only if pre-approved by NAVFAC CIO)

Digital media must have an external label listing a short description of contents, a sequence number if there are multiple volumes, and the date of media creation.

Government Review

The Government shall review the submitted data and documentation upon completion of all stated work. Missing or incomplete items will be documented and forwarded to the contractor for completion. Failure to adhere to any of the stated delivery specifications could result in rejection of deliverables and nonpayment. Contractors shall submit data and documentation samples at 25% and 75% project completion to avoid the rejection of final deliverables.

Project #5 – Strengthen Stormwater Mgmt. (E.O. 13508) at JEB Little Creek

18 January 2013

SCOPE OF WORK
Identify Opportunities to Strengthen Storm Water Management
to Comply with E.O. 13508 - Chesapeake Bay Protection and Restoration
at Joint Expeditionary Base Little Creek

I. Background

On 12 May 2009, Executive Order (EO) 13508, Protection and Restoration of the Chesapeake Bay was signed. The goal of the EO is to demonstrate a renewed commitment to the Bay. The EO requires preparation of seven reports to define government actions to restore the Bay. The recommendations from the reports were to be used to develop a coordinated federal strategy to preserve and restore the Bay. The DoD was the lead agency for the report on storm water management at federal facilities. The purpose of the report was to recommend options and provide recommendations to strengthen storm water management at federal facilities and on federal lands. The report was published on 23 November 2009. It can be found at: http://executiveorder.chesapeakebay.net/file.axd?file=2009%2f11%2f202c+Federal+Stormwater+Report.pdf. The report discusses options for strengthening storm water management associated with new development and redevelopment, existing developed land, and undeveloped land. This project will focus on evaluating implementation of the options to strengthen storm water management practices on existing developed land and undeveloped land. Further guidance on improving storm water management may be found in the guidance on federal land management that was developed by EPA pursuant to Section 502 of the Bay Executive Order. That guidance was published on 12 May 2010 and is entitled Guidance for Federal Land Management in the Chesapeake Bay Watershed and may be found at: http://www.epa.gov/owow_keep/NPS/chesbay502/pdf/chesbay_guidance-all.pdf

In order to implement the requirements of the Bay Executive Order, the Navy will conduct assessments of all of its installations in the Bay watershed to look for opportunities to strengthen storm water management and implement the EPA Section 502 Guidance. This project will include assessments of Joint Expeditionary Base Little Creek (JEB LC). The installation operates under a NPDES permit for storm water discharges associated with industrial activity. JEB LC is also covered under Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4).

Joint Expeditionary Base Little Creek (JEB LC) covers approximately 2,120 acres of land, with 7.6 miles of beachfront area. It is sited at the extreme northwest corner of the city of Virginia Beach and extends to the city of Norfolk. JEB Little Creek-Fort Story has an estimated payroll of $900 million and employs 18,091 military and civilian personnel making it the largest military employer in the City of Virginia Beach. The base covers nearly 4,000 acres of land There are 18 large ships home ported there with an additional mix of 126 smaller craft.

The mission of the Naval Amphibious Base is to provide required support services to over 15,000 personnel of the 27 homeported ships and 78 resident and/or supported activities. The base's combination of operational, support, and training facilities are geared predominantly to amphibious operations, making the base unique among bases of the United States and Allied Navies.

II. Objective

The objective of this study is to assess opportunities to strengthen storm water management practices on developed and undeveloped lands at JEB LC.

III. Technical Approach

Task A: Kick-off Meeting/ Information Gathering

The Architect and Engineering Firm (A/E) shall meet with representatives of the Navy, to discuss the statement of work, logistics in performing the work, and any assistance that may be required.

Task B: Development of Assessment Strategy
The A/E shall review existing information on base land use, topography, hydrology, storm drainage, and existing storm water management practices to develop a strategy for assessing opportunities to strengthen storm water management practices on developed and undeveloped lands.

Task C: Site Assessments
The A/E will assess developed and undeveloped areas of the bases for opportunities to strengthen storm water management. These assessments would evaluate urbanized areas and paved roads on the installation to see where existing storm water management practices could be upgraded or where new practices could be installed in developed areas that do not have storm water management. Priority should be given to selecting low impact development practices. The study would also explore opportunities for restoration including repair of eroded or erosion prone areas, stream bank stabilization, establishment or expansion of riparian buffers, and urban stream restoration. Additionally, the study would evaluate the potential use of non-structural management practices such as bans on coal tar based pavement sealants, street sweeping programs, reduced mowing, catch basin cleanout, ditch maintenance, reductions in fertilizer and herbicide use, and opportunities for urban tree replacement and reforestation. The assessment would also include evaluations of erosion control practices to address runoff from unpaved roads and trails and soil conservation plans, nutrient management plans and other practices to address impacts of forest management operations.

Task D: Site Assessment Report
The A/E shall develop a report that documents all opportunities to strengthen storm water management. Opportunities shall be shown on a GIS map and a photograph of the situation recommended for improvement shall be provided. A description and budgetary cost estimate shall be provided for all recommended improvements. The A/E shall prioritize the opportunities for improvements based on potential impact to water quality, potential for pollutant load reductions, and ease of implementation. A prioritization scoring system developed on a previous project will be provided. Modifications to this system may be made with approval of the NTR. Recommended structural improvements shall be classified as storm water management for impervious area, erosion repairs, infrastructure repairs, or infrastructure maintenance.

The Site Assessment report will encompass a brief memorandum that includes the GIS figures, database, and ranking results (equivalent of Appendix B), and also a revision of App. A (prioritization elements). Introductory narrative will be addressed in the draft and final project reports.

Task E: Meeting to Finalize Prioritization of Opportunities
The A/E shall meet with the Navy to discuss the prioritization of the opportunities identified during the assessment. Based on these discussions, fifteen (15) opportunities for improvement will be selected for further development. Meeting can be completed via conference call.

Task F: Draft Project Report
The A/E shall prepare a draft project report that includes a description of the assessment protocol/methodology, photographs and budgetary cost estimates of all identified opportunities for strengthening storm water management, a prioritized list, and conceptual designs with detailed cost estimates for the fifteen (15) opportunities decided in Task E. Conceptual designs should be detailed to the 35% 1391 level and should include descriptions, pictures and CADD drawings. A large scale map of the installation should be prepared to show drainage boundaries, buildings, roads, opportunity locations and opportunity identification number. Refer to report produced under N62470-10-D-3000 WE19 for details on the report structure.

Task G: Review Meeting and Final Report
The A/E shall attend a review meeting to discuss Navy comments to the draft report and produce a final report that addresses Navy comments. Meeting can be completed via conference call.

Task H: Best Management Practices (BMPs) Inventory
The A/E shall inventory all the BPMs present at the installations. The information gathered through the inventory should be populated into the regional BMP database and should contain, including but not limited to, the following information: Inventory ID, Building / Area, Model BMP Category, Model BMP Type, Quantity, Drainage Area (Acres), Hydrologic Unit Code (HUC, 6th Order), Receiving Waterbody, Latitude, Longitude, Date Installed, TN Reduction Efficiency (Model), TP Reduction Efficiency (Model), SED Reduction Efficiency (Model), TN Reduction Efficiency (Design), TP Reduction Efficiency (Design), SED Reduction Efficiency (Design), Inspection Date, BMP Type, Total Drainage Area. A report should be created and submitted for review. The deliverable for this task will be a database, not a report with narrative.

IV. Information Provided by the Government

A. GIS Information on JEB LC to include buildings, roads, hydrography, topography, wetlands, utilities. Note: the Navy will provide assistance with resolving discrepancies between the GIS and CADD data, as well as with ruling out fatal flaw areas (such as those designated for future purpose, areas that are contaminated) and existing natural areas from detailed analysis. The A/E will provide maps with notes and questions to the Navy on the areas in need of clarification.

B. Storm Water Pollution Prevention Plan and AutoCad Maps of JEB LC's storm drainage systems.

V. Submittals

All electronic copies shall be in Microsoft Office product format and Adobe Acrobat format and delivered on CD-ROM media. GIS files shall be in ESRI Arc Map product format and Adobe Acrobat format.

TASK	Contractor's Submittal Dates	MidLant NTR	Electronic Copies
Kick Off Meeting	15 days after award	N/A	N/A
Site Assessment Report and BMP Database	180 days after kickoff meeting	2	2
Draft Project Report	30 days after prioritization meeting	2	2

Final Project Report	15 days after government comments	4	4

VI. Special Instructions

A. All work shall be coordinated through the NAVFAC MidLant's Navy Technical Representative (NTR) (Dialis B. Figueroa Arriaga) and the activity POC (Will Bullard, 757.341.0429).
B. The A/E is responsible for recording minutes of all meetings and furnishing a copy of the minutes to the NAVFAC MidLant's NTR.
C. The A/E shall submit a written progress report to the NAVFAC MidLant's NTR no later than the tenth day of each month.
D. The A/E shall forward all informal documents (data base searches, etc.) directly to NAVFAC MidLant's NTR upon request.
E. The A/E shall not directly contact the Virginia Department of Environmental Quality (VDEQ) or the Environmental Protection Agency without approval of the NAVFAC MidLant's NTR and the activity POC.
F. The A/E is responsible for obtaining permission and clearance from the appropriate station security personnel to enter and perform the required field work. All field work will be coordinated through the NAVFAC MidLant's NTR and the Activity POCs.
G. The A/E is responsible for returning all government furnished information at the end of the project.

Project #6 – Strengthen Stormwater Mgmt. (E.O. 13508) at Naval Station Norfolk

MOD01 17 July 2013
16 January 2013

RFP APPENDIX A

1. A/E Contract N62470-10-D-3000 CTO WE97
   Fund Type: ENVACT NAVFAC HQ
   Work Order No.: 1302447

   Project Title/Location: MOD01 - Identify Opportunities to Strengthen Storm Water Management to Comply with E.O. 13508 - Chesapeake Bay Protection and Restoration at Naval Station Norfolk

   Attachment:

   (a) Scope of Work dated: MOD01 17 July 2013 (original SOW: 16 January 2013)

2. Project Points of Contact (POC):

   NAVFACENGCOM Mid-Atlantic Navy Technical Representative (NTR):
   Dialis B. Figueroa Arriaga, Code EV14/757-341-0425
   (Internet E-Mail: dialis.figueroa-arri@navy.mil)

   The Contracting Officer has authorized the NTR to perform general oversight and technical administration of
   the negotiated contract. In that position the NTR may provide in-scope direction to the A&E, and assures the terms of the negotiated services. The NTR administers the scope and outside agency interface, and coordinates criteria and technical oversight within the IPT.

   NAVFACENGCOM Mid-Atlantic Contract Specialist:

   Csrmella Speer, Code OPHRAQ__/757-341-1644

   (Internet E-Mail: carmella.speer@navy.mil)

   The Contract Specialist is responsible for all contract terms, changes or deviations requiring contract adjustments. No changes to the contract scope will be made or additional work authorized without the prior approval of a Contracting Officer.

   Activity POC:

   Brian Powell, NAVFAC MidLant Code EV14/757.341.0422 (Internet E-Mail: brian.m.powell2@navy.mil)

   The Activity point of contact is provided for obtaining site access and site information.

3. Project Scope: See attachment (a)

4. Schedule of Fees: (To be filled in at conclusion of negotiations on A&E contracts)

   Engineering Services:

Direct Labor
Indirect Cost
Other Direct Cost
Travel and Subsistence

TOTAL CONTRACT TASK ORDER VALUE:

5. Submittal Due Dates:

The A&E of record shall begin work upon receipt of contract documents and pursue the work diligently in accordance with the date schedule established therein. **Provide your assessment of the schedule monthly to the NTR.**

TASKS	CONTRACTOR SUBMITTAL DATES
Kick Off Meeting	April 24, 2013
Site Assessment Report and BMP Database	February 24, 2014
Draft Project Report	60 days after prioritization meeting
Final Project Report	15 days after government comments

6. Project Submittal Requirements and Distribution:

TASKS	MidLant NTR	Electronic Copies
Site Assessment Report	2	2
Draft Project Report	2	2
Final Project Report	4	4

Project Completion Date: August 31, 2014

MAILING ADDRESSES: DIRECT DISTRIBUTION TO EACH ADDRESSEE BY A&E IS REQUIRED

NAVFAC MIDLANT NTR:
COMMANDING OFFICER
NAVFAC MIDLANT
CODE EV14 ATTN: DIALIS B. FIGUEROA ARRIAGA
9742 MARYLAND AVE
NORFOLK VA 23511-3095

Copy of all correspondence (without enclosures) to the Contract Specialist:

COMMANDING OFFICER
NAVFAC MIDLANT
ATTN CODE OPHRAQ__ (ATT. CARMELLA SPEER)
9742 MARYLAND AVE
NORFOLK, VA 23511-3095

MOD01 17 August 2013
16 January 2013

SCOPE OF WORK
Identify Opportunities to Strengthen Storm Water Management
to Comply with E.O. 13508 - Chesapeake Bay Protection and Restoration
at Naval Station Norfolk

I. Background

On 12 May 2009, Executive Order (EO) 13508, Protection and Restoration of the Chesapeake Bay was signed. The goal of the EO is to demonstrate a renewed commitment to the Bay. The EO requires preparation of seven reports to define government actions to restore the Bay. The recommendations from the reports were to be used to develop a coordinated federal strategy to preserve and restore the Bay. The DoD was the lead agency for the report on storm water management at federal facilities. The purpose of the report was to recommend options and provide recommendations to strengthen storm water management at federal facilities and on federal lands. The report was published on 23 November 2009. It can be found at: http://executiveorder.chesapeakebay.net/file.axd?file=2009%2f11%2f202c+Federal+Stormwater+Report.pdf. The report discusses options for strengthening storm water management associated with new development and redevelopment, existing developed land, and undeveloped land. This project will focus on evaluating implementation of the options to strengthen storm water management practices on existing developed land and undeveloped land. Further guidance on improving storm water management may be found in the guidance on federal land management that was developed by EPA pursuant to Section 502 of the Bay Executive Order. That guidance was published on 12 May 2010 and is entitled Guidance for Federal Land Management in the Chesapeake Bay Watershed and may be found at: http://www.epa.gov/owow_keep/NPS/chesbay502/pdf/chesbay_guidance-all.pdf

In order to implement the requirements of the Bay Executive Order, the Navy will conduct assessments of all of its installations in the Bay watershed to look for opportunities to strengthen storm water management and implement the EPA Section 502 Guidance. This project will include assessments of Naval Station Nolfolk and annexes (NSA Hampton Roads, Camp Allen, Lafayatte River Annex). The installation operates under a NPDES permit for storm water discharges associated with industrial activity. NSN and annexes are also covered under Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4).

Naval Station Norfolk (NSN) is the largest naval base in the United States and is situated on 4,631 acres of land (A.T. Kearny, 1991) in the northwest portion of the City of Norfolk, Virginia. NSN is bounded on the north by Willoughby Bay, on the west by the confluence of the Elizabeth and James Rivers, and on the south and east by the City of Norfolk. A portion of the NSN eastern boundary is also formed by Mason Creek.

NSN includes approximately 4,000 buildings, 20 piers, and an airfield. The western portion of NSN is a developed waterfront area containing the piers and facilities for loading, unloading, and servicing naval vessels. Land use in the surrounding area is commercial, industrial, and residential. The waterfront area south of the NSN provides shipping facilities and a network of rail lines for several large industries Residential and recreational areas border NSN at the southern, eastern, and northeastern sections of the base.

The mission of NSN is to provide fleet support and readiness for the U.S. Atlantic Fleet. NSN operates in various capacities to provide support to vessels, aircraft, and other activities. NSN houses many tenants, each performing different operations involving the servicing and maintenance of vessels and aircraft. The service and maintenance of ships includes utilities hook-up, on-board maintenance, and coordination of ship movements in the harbor. Additional functions include loading, unloading, and handling of fuels and oils used aboard the vessels. Ship and aircraft repair operations consist of paint

stripping, patching, parts cleaning, repainting, engine overhauls, sandblasting, and metal-plating processes.

II. Objective

The objective of this study is to assess opportunities to strengthen storm water management practices on developed and undeveloped lands at NSN and annexes.

III. Technical Approach

Task A: Kick-off Meeting/ Information Gathering
The Architect and Engineering Firm (A/E) shall meet with representatives of the Navy, to discuss the statement of work, logistics in performing the work, and any assistance that may be required.

Task B: Development of Assessment Strategy
The A/E shall review existing information on base land use, topography, hydrology, storm drainage, and existing storm water management practices to develop a strategy for assessing opportunities to strengthen storm water management practices on developed and undeveloped lands.

Task C: Site Assessments
The A/E will assess developed and undeveloped areas of the bases for opportunities to strengthen storm water management. These assessments would evaluate urbanized areas and paved roads on the installation to see where existing storm water management practices could be upgraded or where new practices could be installed in developed areas that do not have storm water management. Priority should be given to selecting low impact development practices. The study would also explore opportunities for restoration including repair of eroded or erosion prone areas, stream bank stabilization, establishment or expansion of riparian buffers, and urban stream restoration. Additionally, the study would evaluate the potential use of non-structural management practices such as bans on coal tar based pavement sealants, street sweeping programs, reduced mowing, catch basin cleanout, ditch maintenance, reductions in fertilizer and herbicide use, and opportunities for urban tree replacement and reforestation. The assessment would also include evaluations of erosion control practices to address runoff from unpaved roads and trails and soil conservation plans, nutrient management plans and other practices to address impacts of forest management operations.

Task D: Site Assessment Report
The A/E shall develop a report that documents all opportunities to strengthen storm water management. Opportunities shall be shown on a GIS map and a photograph of the situation recommended for improvement shall be provided. A description and budgetary cost estimate shall be provided for all recommended improvements. The A/E shall prioritize the opportunities for improvements based on potential impact to water quality, potential for pollutant load reductions, and ease of implementation. A prioritization scoring system developed on a previous project will be provided. Modifications to this system may be made with approval of the NTR. Recommended structural improvements shall be classified as storm water management for impervious area, erosion repairs, infrastructure repairs, or infrastructure maintenance.

The Site Assessment report will encompass a brief memorandum that includes the GIS figures, database, and ranking results (equivalent of Appendix B), and also a revision of App. A (prioritization elements). Introductory narrative will be addressed in the draft and final project reports.

Task E: Meeting to Finalize Prioritization of Opportunities
The A/E shall meet with the Navy to discuss the prioritization of the opportunities identified during the assessment. Based on these discussions, twenty (20) opportunities for improvement will be selected for further development. Meeting can be completed via conference call.

Task F: Draft Project Report
The A/E shall prepare a draft project report that includes a description of the assessment protocol/methodology, photographs and budgetary cost estimates of all identified opportunities for strengthening storm water management, a prioritized list, and conceptual designs with detailed cost estimates for the twenty (20) opportunities decided in Task E. Conceptual designs should be detailed to the 35% 1391 level and should include descriptions, pictures and CADD drawings. A large scale map of the installation should be prepared to show drainage boundaries, buildings, roads, opportunity locations and opportunity identification number. Refer to report produced under N62470-10-D-3000 WE19 for details on the report structure.

Task G: Review Meeting and Final Report
The A/E shall attend a review meeting to discuss Navy comments to the draft report and produce a final report that addresses Navy comments. Meeting can be completed via conference call.

Task H: Best Management Practices (BMPs) Inventory
The A/E shall inventory all the BPMs present at the installations. The information gathered through the inventory should be populated into the regional BMP database and should contain, including but not limited to, the following information: Inventory ID, Building / Area, Model BMP Category, Model BMP Type, Quantity, Drainage Area (Acres), Hydrologic Unit Code (HUC, 6th Order), Receiving Waterbody, Latitude, Longitude, Date Installed, TN Reduction Efficiency (Model), TP Reduction Efficiency (Model), SED Reduction Efficiency (Model), TN Reduction Efficiency (Design), TP Reduction Efficiency (Design), SED Reduction Efficiency (Design), Inspection Date, BMP Type, Total Drainage Area. A report should be created and submitted for review. The deliverable for this task will be a database, not a report with narrative.

IV. Information Provided by the Government

A. GIS Information on NSN and annexes to include buildings, roads, hydrography, topography, wetlands, utilities. Note: the Navy will provide assistance with resolving discrepancies between the GIS and CADD data, as well as with ruling out fatal flaw areas (such as those designated for future purpose, areas that are contaminated) and existing natural areas from detailed analysis. The A/E will provide maps with notes and questions to the Navy on the areas in need of clarification.

B. Storm Water Pollution Prevention Plan and AutoCad Maps of NSN and annexes storm drainage systems.

V. Submittals

All electronic copies shall be in Microsoft Office product format and Adobe Acrobat format and delivered on CD-ROM media. GIS files shall be in ESRI Arc Map product format and Adobe Acrobat format.

TASK	Contractor's Submittal Dates	MidLant NTR	Electronic Copies
Kick Off Meeting	April 24, 2013	N/A	N/A
Site Assessment Report and BMP Database	February 24, 2014	2	2
Draft Project Report	60 days after prioritization meeting	2	2

Final Project Report	15 days after government comments	4	4

VI. Special Instructions

A. All work shall be coordinated through the NAVFAC MidLant's Navy Technical Representative (NTR) (Dialis B. Figueroa Arriaga) and the activity POC (Brian Powell).
B. The A/E is responsible for recording minutes of all meetings and furnishing a copy of the minutes to the NAVFAC MidLant's NTR.
C. The A/E shall submit a written progress report to the NAVFAC MidLant's NTR no later than the tenth day of each month.
D. The A/E shall forward all informal documents (data base searches, etc.) directly to NAVFAC MidLant's NTR upon request.
E. The A/E shall not directly contact the Virginia Department of Environmental Quality (VDEQ) or the Environmental Protection Agency without approval of the NAVFAC MidLant's NTR and the activity POC.
F. The A/E is responsible for obtaining permission and clearance from the appropriate station security personnel to enter and perform the required field work. All field work will be coordinated through the NAVFAC MidLant's NTR and the Activity POCs.
G. The A/E is responsible for returning all government furnished information at the end of the project.

Project #7 – Strengthen Stormwater Mgmt. (E.O. 13508) at NAS Oceana

18 January 2013

SCOPE OF WORK
Identify Opportunities to Strengthen Storm Water Management
to Comply with E.O. 13508 - Chesapeake Bay Protection and Restoration
at Naval Air Station Oceana

I. Background

On 12 May 2009, Executive Order (EO) 13508, Protection and Restoration of the Chesapeake Bay was signed. The goal of the EO is to demonstrate a renewed commitment to the Bay. The EO requires preparation of seven reports to define government actions to restore the Bay. The recommendations from the reports were to be used to develop a coordinated federal strategy to preserve and restore the Bay. The DoD was the lead agency for the report on storm water management at federal facilities. The purpose of the report was to recommend options and provide recommendations to strengthen storm water management at federal facilities and on federal lands. The report was published on 23 November 2009. It can be found at: http://executiveorder.chesapeakebay.net/file.axd?file=2009%2f11%2f202c+Federal+Stormwater+Report.pdf. The report discusses options for strengthening storm water management associated with new development and redevelopment, existing developed land, and undeveloped land. This project will focus on evaluating implementation of the options to strengthen storm water management practices on existing developed land and undeveloped land. Further guidance on improving storm water management may be found in the guidance on federal land management that was developed by EPA pursuant to Section 502 of the Bay Executive Order. That guidance was published on 12 May 2010 and is entitled Guidance for Federal Land Management in the Chesapeake Bay Watershed and may be found at: http://www.epa.gov/owow_keep/NPS/chesbay502/pdf/chesbay_guidance-all.pdf

In order to implement the requirements of the Bay Executive Order, the Navy will conduct assessments of all of its installations in the Bay watershed to look for opportunities to strengthen storm water management and implement the EPA Section 502 Guidance. This project will include assessment for Naval Air Station Oceana (NASO). The installations operates under a NPDES permit for storm water discharges associated with industrial activity. NASO is also covered under Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4).

NAS Oceana is located on the Atlantic coast, five miles south of the downtown resort of Virginia Beach. NAS Oceana has grown to become one of the largest and most advanced air stations in the world, comprising 6,820 acres (including Dam Neck Annex). Obstruction clearances and flight easements total an additional 3,680 acres (14.9 km^2). Its four runways—three measuring 8,000 feet (2,400 m) in length and one measuring 12,000 feet—are designed for high-performance aircraft. NAS Oceana's primary mission is to train and deploy the Navy's Atlantic Fleet strike fighter squadrons of F/A-18 Hornets and Super Hornets. Naval Aviators and Naval Flight Officers stationed at NAS Oceana fly approximately 219,000 training operations each year.

The primary mission of the Naval Air Station Oceana is as a Shore-Based Readiness Integrator, providing the facilities, equipment and personnel to support shored-based readiness, total force readiness and maintain operational access of Oceana-based forces.

II. Objective

The objective of this study is to assess opportunities to strengthen storm water management practices on developed and undeveloped lands at NASO.

III. Technical Approach

Task A: Kick-off Meeting/ Information Gathering

The Architect and Engineering Firm (A/E) shall meet with representatives of the Navy, to discuss the statement of work, logistics in performing the work, and any assistance that may be required.

Task B: Development of Assessment Strategy
The A/E shall review existing information on base land use, topography, hydrology, storm drainage, and existing storm water management practices to develop a strategy for assessing opportunities to strengthen storm water management practices on developed and undeveloped lands.

Task C: Site Assessments
The A/E will assess developed and undeveloped areas of the bases for opportunities to strengthen storm water management. These assessments would evaluate urbanized areas and paved roads on the installation to see where existing storm water management practices could be upgraded or where new practices could be installed in developed areas that do not have storm water management. Priority should be given to selecting low impact development practices. The study would also explore opportunities for restoration including repair of eroded or erosion prone areas, stream bank stabilization, establishment or expansion of riparian buffers, and urban stream restoration. Additionally, the study would evaluate the potential use of non-structural management practices such as bans on coal tar based pavement sealants, street sweeping programs, reduced mowing, catch basin cleanout, ditch maintenance, reductions in fertilizer and herbicide use, and opportunities for urban tree replacement and reforestation. The assessment would also include evaluations of erosion control practices to address runoff from unpaved roads and trails and soil conservation plans, nutrient management plans and other practices to address impacts of forest management operations.

Task D: Site Assessment Report
The A/E shall develop a report that documents all opportunities to strengthen storm water management. Opportunities shall be shown on a GIS map and a photograph of the situation recommended for improvement shall be provided. A description and budgetary cost estimate shall be provided for all recommended improvements. The A/E shall prioritize the opportunities for improvements based on potential impact to water quality, potential for pollutant load reductions, and ease of implementation. A prioritization scoring system developed on a previous project will be provided. Modifications to this system may be made with approval of the NTR. Recommended structural improvements shall be classified as storm water management for impervious area, erosion repairs, infrastructure repairs, or infrastructure maintenance.

The Site Assessment report will encompass a brief memorandum that includes the GIS figures, database, and ranking results (equivalent of Appendix B), and also a revision of App. A (prioritization elements). Introductory narrative will be addressed in the draft and final project reports.

Task E: Meeting to Finalize Prioritization of Opportunities
The A/E shall meet with the Navy to discuss the prioritization of the opportunities identified during the assessment. Based on these discussions, ten (10) opportunities for improvement will be selected for further development. Meeting can be completed via conference call.

Task F: Draft Project Report
The A/E shall prepare a draft project report that includes a description of the assessment protocol/methodology, photographs and budgetary cost estimates of all identified opportunities for strengthening storm water management, a prioritized list, and conceptual designs with detailed cost estimates for the ten (10) opportunities decided in Task E. Conceptual designs should be detailed to the 35% 1391 level and should include descriptions, pictures and CADD drawings. A large scale map of the installation should be prepared to show drainage boundaries, buildings, roads, opportunity locations and opportunity identification number. Refer to report produced under N62470-10-D-3000 WE19 for details on the report structure.

Task G: Review Meeting and Final Report
The A/E shall attend a review meeting to discuss Navy comments to the draft report and produce a final report that addresses Navy comments. Meeting can be completed via conference call.

Task H: Best Management Practices (BMPs) Inventory
The A/E shall inventory all the BPMs present at the installations. The information gathered through the inventory should be populated into the regional BMP database and should contain, including but not limited to, the following information: Inventory ID, Building / Area, Model BMP Category, Model BMP Type, Quantity, Drainage Area (Acres), Hydrologic Unit Code (HUC, 6th Order), Receiving Waterbody, Latitude, Longitude, Date Installed, TN Reduction Efficiency (Model), TP Reduction Efficiency (Model), SED Reduction Efficiency (Model), TN Reduction Efficiency (Design), TP Reduction Efficiency (Design), SED Reduction Efficiency (Design), Inspection Date, BMP Type, Total Drainage Area. A report should be created and submitted for review. The deliverable for this task will be a database, not a report with narrative.

IV. Information Provided by the Government

A. GIS Information on NASO to include buildings, roads, hydrography, topography, wetlands, utilities. Note: the Navy will provide assistance with resolving discrepancies between the GIS and CADD data, as well as with ruling out fatal flaw areas (such as those designated for future purpose, areas that are contaminated) and existing natural areas from detailed analysis. The A/E will provide maps with notes and questions to the Navy on the areas in need of clarification.

B. Storm Water Pollution Prevention Plan and AutoCad Maps of NASO storm drainage systems.

V. Submittals

All electronic copies shall be in Microsoft Office product format and Adobe Acrobat format and delivered on CD-ROM media. GIS files shall be in ESRI Arc Map product format and Adobe Acrobat format.

TASK	Contractor's Submittal Dates	MidLant NTR	Electronic Copies
Kick Off Meeting	15 days after award	N/A	N/A
Site Assessment Report and BMP Database	180 days after kickoff meeting	4	4
Draft Project Report	30 days after prioritization meeting	4	4
Final Project Report	15 days after government	8	8

	comments		

VI. Special Instructions

A. All work shall be coordinated through the NAVFAC MidLant's Navy Technical Representative (NTR) (Dialis B. Figueroa Arriaga) and the activity POC (Amy Hardy).

B. The A/E is responsible for recording minutes of all meetings and furnishing a copy of the minutes to the NAVFAC MidLant's NTR.

C. The A/E shall submit a written progress report to the NAVFAC MidLant's NTR no later than the tenth day of each month.

D. The A/E shall forward all informal documents (data base searches, etc.) directly to NAVFAC MidLant's NTR upon request.

E. The A/E shall not directly contact the Virginia Department of Environmental Quality (VDEQ) or the Environmental Protection Agency without approval of the NAVFAC MidLant's NTR and the activity POC.

F. The A/E is responsible for obtaining permission and clearance from the appropriate station security personnel to enter and perform the required field work. All field work will be coordinated through the NAVFAC MidLant's NTR and the Activity POCs.

G. The A/E is responsible for returning all government furnished information at the end of the project.

Appendix D – Outfall Screening Reports

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: N/A		Outfall ID: 001
Today's date: 11/25/2013		Time (Military): 0630
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 18	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 001

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: Deperming Water Exchange System
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): The water exchange system is only in operation 4 times a year for about 12 hours each time.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 4"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ RIP-RAP ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: N-03		Outfall ID: Discharge 003
Today's date: 12/23/2013		Time (Military): 0730
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 003 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: Fuel Tanks
☐ Commercial	Known Industries: Land Transportation and Warehousing, General Warehousing and Storage (Fuel Farm)

Notes (e.g., origin of outfall, if known):

Building CEP204, 126, 1, 2, 3, 4. CEP 1-4 are above ground storage fuel tanks.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 48"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***		Unknown flow, due to being submerged	
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: N2		Outfall ID: 005
Today's date: 11/19/2013		Time (Military): 0740
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 45	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 005 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

THE OUTFALL HAS PIECES MISSING FROM THE FRONT OF THE PIPE.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	The outfall has pieces missing from the front of the pipe.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: N2		Outfall ID: 006
Today's date: 11/19/2013		Time (Military): 0730
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 45	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 006 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: M-02		Outfall ID: Discharge 011
Today's date: 12/23/2013		Time (Military): 0750
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 011 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Ship Building and Repair

Notes (e.g., origin of outfall, if known):

Building CEP198 and associated parking areas

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***		Unknown flow, due to being submerged	
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L2		Outfall ID: 012
Today's date: 11/19/2013		Time (Military): 0830
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 46	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 012 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Staining from the flow coming out of the outfall.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L2		Outfall ID: 013
Today's date: 11/19/2013		Time (Military): 0845
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 46	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 013 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L-03		Outfall ID: 014
Today's date: 12/23/2013		Time (Military): 0755
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 014 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial – Associated Bldg. CEP-198	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Ship Building and Repair

Notes (e.g., origin of outfall, if known): Flow was only present on the right hand side of the double outfall.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L2/L3		Outfall ID: 015
Today's date: 11/19/2013		Time (Military): 0855
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 46	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 015 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☒ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 48" W x 36" H	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

TRASH AND DEBRIS IN THE GRATE IN FRONT OF THE OUTFALL. LOTS OF DEBRIS, TRASH AND ROCKS AROUND THE OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L-03		Outfall ID: 016
Today's date: 12/23/2013		Time (Military): 0800
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 016 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial – Associated Bldgs. – CEP-200, CEP -201, and CEP -209	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing and Ship Building and Repair

Notes (e.g., origin of outfall, if known): flow was seen from the outfall but determined to be tidal flow from the James River

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☒ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approximately 60" by 60"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☒ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Small crack; no major damage
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L-03		Outfall ID: 017
Today's date: 12/23/2013		Time (Military): 0800
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 017 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial – Associated Bldg. CEP-156	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: ____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☒ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☒ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: 36" Top Width: 36" Bottom Width: 60"	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☒ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☒	☐ Excessive ☒ Inhibited	Brunsel bush is growing within the outfall
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L2		Outfall ID: 019
Today's date: 11/19/2013		Time (Military): 0905
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 46	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 019 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 18"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: K2		Outfall ID: 020
Today's date: 11/19/2013		Time (Military): 0910
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 46	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 020 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: K2		Outfall ID: 021
Today's date: 11/19/2013		Time (Military): 0915
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 46	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 021 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): Building CEP-230, Boat Basin 3T

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: K2		Outfall ID: 024
Today's date: 11/19/2013		Time (Military): 0935
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 46	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 024 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): Building CEP-160

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H2		Outfall ID: 031
Today's date: 12/23/2013		Time (Military): 0810
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 031 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing, General Refrigerated, and Special

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☒ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H2		Outfall ID: 033
Today's date: 12/23/2013		Time (Military): 0815
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 033 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing, General Refrigerated, and Special

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H2		Outfall ID: 034
Today's date: 12/23/2013		Time (Military): 0820
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 034 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing, General Refrigerated, and Special

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☒ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☐ Clear ☒ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F2		Outfall ID: 039
Today's date: 12/23/2013		Time (Military): 0825
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 039 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Ship Building and Repair

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 18"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E2		Outfall ID: 046
Today's date: 11/19/2013		Time (Military): 1005
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 46	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 046 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E2		Outfall ID: 047
Today's date: 11/19/2013		Time (Military): 1005
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 46	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 047 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: D2		Outfall ID: 048
Today's date: 11/19/2013		Time (Military): 1120
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 50	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 048 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: D2		Outfall ID: 049
Today's date: 11/19/2013		Time (Military): 1110
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 50	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 049 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: D2		Outfall ID: 050
Today's date: 11/19/2013		Time (Military): 1100
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 49	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 050 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: C2		Outfall ID: 051
Today's date: 11/19/2013		Time (Military): 1050
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 48	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 051 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: C2		Outfall ID: 052
Today's date: 11/19/2013		Time (Military): 1045
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 47	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 052 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Tidal change flow staining present.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: C2		Outfall ID: 053
Today's date: 11/19/2013		Time (Military): 1055
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 48	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 053 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

TRASH IN WATER OUTSIDE OF THE BOOM AROUND THE OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: C2		Outfall ID: 054
Today's date: 12/23/2013		Time (Military): 0840
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 054 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Ship Building and Repair

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 8"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: B2		Outfall ID: 055
Today's date: 12/23/2013		Time (Military): 0845
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 055 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Ship Building and Repair

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 18"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

THE OUTFALL HAS CRACKING, CHIPPING AND CORROSION AROUND IT.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☒ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: C3		Outfall ID: 057
Today's date: 11/19/2013		Time (Military): 1145
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 057 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

THERE IS CORROSION AND CRACKING AT THE OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☒ Corrosion	There is corrosion and cracking at the outfall.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E5		Outfall ID: 058
Today's date: 12/23/2013		Time (Military): 0900
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 058 (1-4)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Repair Shops and Related Services

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☒ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☒ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: 32" Top Width: 113" Bottom Width: 264"	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☒ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

REPAIR BENT/BROKEN STEEL BARS AND CLEAN UP TRASH/DEBRIS IN STEEL BARS. THERE IS ALSO EROSION OF SAND FROM OUTFALL DISCHARGES.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E5		Outfall ID: 059
Today's date: 12/23/2013		Time (Military): 0850
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 059 (1-3)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Repair Shops and Related Services

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☒	☐ Excessive ☒ Inhibited	Green algae growth around outfall.
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E6		Outfall ID: 060
Today's date: 11/19/2013		Time (Military): 1230
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 060 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

THERE IS MODERATE CHIPPING AROUND OUTFALL ALONG WITH MODERATE EROSION ABOVE THE OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	There is moderate chipping around outfall and erosion above the outfall.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E6		Outfall ID: 061
Today's date: 12/23/2013		Time (Military): 0905
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 061 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Repair Shops and Related Services

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☒ Other: 	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 22" Diameter	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

REPAIR THE HOLES IN THE TOP OF CONCRETE PIPE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Two holes in the top of pipe (approx. 4” wide)
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E6		Outfall ID: 062
Today's date: 11/19/2013		Time (Military): 1240
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 062 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): Buildings LAG-27, LAG-77

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 6"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F6		Outfall ID: 063
Today's date: 11/19/2013		Time (Military): 1245
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 063

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

THERE IS CRACKING IN THE CONCRETE ABOVE THE OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	There is cracking in the concrete above the outfall.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F6		Outfall ID: 064
Today's date: 11/19/2013		Time (Military): 1250
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 064

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

THERE IS CRACKING IN THE CONCRETE ABOVE THE OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	There is cracking in the concrete above the outfall.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F6		Outfall ID: 065
Today's date: 11/19/2013		Time (Military): 1300
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 065

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F6		Outfall ID: 066
Today's date: 12/23/2013		Time (Military): 0915
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 066 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Steam Facilities

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F6		Outfall ID: 067
Today's date: 12/23/2013		Time (Military): 0915
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 067 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Steam Facilities

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL NEEDS TO BE CLEANED OF TRASH/DEBRIS. THERE WAS SHEEN PRESENT COMING FROM OUTFALL. WHEN BUBBLES UNDER WATER WOULD POP THE SHEEN WOULD APPEAR.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☒	☐ Odors ☐ Colors ☐ Floatables ☒ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	Sheen present but contained in booms.
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☐ Unlikely ☐ Potential (presence of two or more indicators) ☒ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F6		Outfall ID: 068
Today's date: 11/19/2013		Time (Military): 1310
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 068 (1-3)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Operations

Notes (e.g., origin of outfall, if known): Buildings LF-60, N-19, N-30, M-51, M-52

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL DAMAGE, THERE IS A 1' X 1' SECTION MISSING FROM THE BOTTOM OF THE PIPE. ALSO, BOOMS ARE IN PLACE AROUND OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	There is a 1' x 1' section missing from the bottom of the pipe.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F6		Outfall ID: 070
Today's date: 11/19/2013		Time (Military): 1315
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 070

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F6		Outfall ID: 071
Today's date: 11/19/2013		Time (Military): 1320
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 071

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 6"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

THERE IS A 4" X 6" SECTION OF PIPE MISSING.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	There is a 4" x 6" section of pipe missing.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F6		Outfall ID: 072
Today's date: 11/19/2013		Time (Military): 1325
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 072

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 6"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F7		Outfall ID: 074
Today's date: 12/23/2013		Time (Military): 0920
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 074 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Water Transportation

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E7		Outfall ID: 075
Today's date: 12/23/2013		Time (Military): 1145
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 075

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 48"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E8		Outfall ID: 076
Today's date: 12/23/2013		Time (Military): 1145
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 076

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 48"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E8		Outfall ID: 078
Today's date: 12/23/2013		Time (Military): 1150
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 078

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F8		Outfall ID: 079
Today's date: 11/15/2013		Time (Military): 1345
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 079 (1-5)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Special Warehousing & Storage

Notes (e.g., origin of outfall, if known): LF-18

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 36"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Cracking
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G9		Outfall ID: 081
Today's date: 11/15/2013		Time (Military): 1308
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 081 (1-4)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 18"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Cracking
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G9		Outfall ID: 082
Today's date: 11/15/2013		Time (Military): 1255
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 082 (1-4)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 48"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

RIP RAP IN OUTFALL OPENING

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☐ Green ☒ Other: White	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G9		Outfall ID: 083
Today's date: 12/23/2013		Time (Military): 0925
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 083 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Ship Building and Repair

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G9		Outfall ID: 087
Today's date: 11/15/2013		Time (Military): 1240
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 087 (1-3)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Public Warehousing & Storage, Boat Building & Repairing

Notes (e.g., origin of outfall, if known): V-88

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other: Corrugated	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☐ Green ☒ Other: White	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G9		Outfall ID: 089
Today's date: 12/23/2013		Time (Military): 0930
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 089 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 18"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G9		Outfall ID: 091
Today's date: 12/23/2013		Time (Military): 0935
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 091 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 18"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G9		Outfall ID: 094
Today's date: 12/23/2013		Time (Military): 0940
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 094 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 18"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H10		Outfall ID: 101
Today's date: 11/15/2013		Time (Military): 1215
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 101 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): Sheet flow from runway

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 10"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H10		Outfall ID: 102
Today's date: 11/15/2013		Time (Military): 1225
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 102 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): Sheet flow from runway

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other: Corrugated	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 10"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H10		Outfall ID: 103
Today's date: 12/23/2013		Time (Military): 0945
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 103 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other:_____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known): V-70 & V-71

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

The end of outfall seems to have been pinched closed.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Outfall seems to have been pinched closed.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H10		Outfall ID: 104
Today's date: 12/23/2013		Time (Military): 0945
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 104 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other:_____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 18"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H10		Outfall ID: 105
Today's date: 2/12/2014		Time (Military): 0745
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 31	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.09
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 105 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Ship Building and Repair

Notes (e.g.., origin of outfall, if known): Building V-47

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☒ Other: Corrugated Plastic Pipe	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I10		Outfall ID: 110
Today's date: 2/12/2014		Time (Military): 0815
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 31	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.09
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 110 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Ship Building and Repair

Notes (e.g.., origin of outfall, if known): Building V-47

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☒ Other: Corrugated Plastic Pipe	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

CLEAN LEAF DEBRIS AROUND THE OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☒ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I10		Outfall ID: 112
Today's date: 12/23/2013		Time (Military): 0950
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 112

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Ship Building and Repair

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I10		Outfall ID: 113
Today's date: 12/23/2013		Time (Military): 0955
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 113 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing, General Refrigerated, and Special

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Face of outfall has some pieces missing.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Face of outfall has some pieces missing.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I10		Outfall ID: 114
Today's date: 12/23/2013		Time (Military): 0955
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 114 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing, General Refrigerated, and Special

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J11		Outfall ID: 118
Today's date: 11/15/2013		Time (Military): 1150
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 118 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	4"x 2" hole on top of pipe where it meets the quay wall
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J11		Outfall ID: 119
Today's date: 11/15/2013		Time (Military): 1135
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 119 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J12		Outfall ID: 123
Today's date: 11/15/2013		Time (Military): 1100
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 123 (1-4)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

EXCESSIVE DAMAGE DUE TO MASON CREEK BRIDGE DEMOLITION.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Crushed pipe
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	Algae along spillway to seawater

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J12		Outfall ID: 124
Today's date: 11/15/2013		Time (Military): 1115
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 124 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☒ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 12" and 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Minor chipping along rim
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I12		Outfall ID: 125
Today's date: 11/15/2013		Time (Military): 1015
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 42	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 125 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 6"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I12		Outfall ID: 126
Today's date: 11/15/2013		Time (Military): 1025
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 43	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 126 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 3"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I12		Outfall ID: 127
Today's date: 11/15/2013		Time (Military): 0915
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 41	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 127 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 3"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I12		Outfall ID: 128
Today's date: 11/15/2013		Time (Military): 0938
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 42	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 128 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 3"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I12		Outfall ID: 129
Today's date: 11/15/2013		Time (Military): 0925
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 42	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 129 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): 3" Steel and 12" Concrete

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☒ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 3" and 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I12		Outfall ID: 130
Today's date: 11/15/2013		Time (Military): 0950
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 42	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 130 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): SP-65

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 3"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I12		Outfall ID: 131
Today's date: 11/15/2013		Time (Military): 1005
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 42	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 130 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☒ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G14		Outfall ID: 134
Today's date: 11/15/2013		Time (Military): 0828
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 41	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 134 (1-3)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☒ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Transportation

Notes (e.g., origin of outfall, if known): Coming from outfall 300

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☒ Other: RCP with Metal Gate	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 15'	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☒ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

GRATE HAS TRASH AND DEBRIS.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☒	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☒ Other: Strong Seawater Odor	☐ 1 – Faint	☐ 2 – Easily detected	☒ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☐ Green ☒ Other: White	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G14		Outfall ID: 135
Today's date: 12/23/2013		Time (Military): 1020
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 135 (1-3)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other:_____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 48"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

HUGE HOLE IN TOP OF PIPE APPROX. 22" X 10" AND FRONT OF PIPE HAS PIECES BROKEN OFF.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Huge hole in the top of pipe (22”x10”) and front of the pipe has pieces broken off.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G14		Outfall ID: 136
Today's date: 11/15/2013		Time (Military): 0815
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 40	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 136 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☒ Other: Corrugated Concrete	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 18"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

CRACKING ON EXTERIOR.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G14		Outfall ID: 137
Today's date: 11/15/2013		Time (Military): 0803
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 40	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 137 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 10"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

DAMAGE TO OUTFALL SPILLWAY.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Chipping of spillway
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G14		Outfall ID: 138
Today's date: 11/15/2013		Time (Military): 0750
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 39	Rainfall (in.): Last 24 hours: 0.02	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 138 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): MWR Vehicle Storage

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 24"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

CRACKED AND DAMAGED PIPE.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Cracking, Chipping and portions of pipe gone
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G15		Outfall ID: 139
Today's date: 12/23/2013		Time (Military): 1010
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 139 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: RV, Boat, & Vehicle Storage
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36" Diameter	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G15		Outfall ID: 141
Today's date: 11/18/2013		Time (Military): 1145
Investigators: E. Rigby		Form completed by: E. Rigby
Temperature (°F): 65	Rainfall (in.): Last 24 hours: 0.03	Last 48 hours: 0.02
Camera: Sony Cyber-Shot		Photo #s: Outfall - 141/142 (1-4)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Unknown	In Water: ☐ No ☐ Partially ☒ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

MAJOR BREAK IN ASPHALT; STORM PIPES SEVERELY DAMAGED (BROKEN, CRUSHED AND SUBMERGED IN WATER)

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Crushed and broken pipes
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G15		Outfall ID: 142
Today's date: 11/18/2013		Time (Military): 1145
Investigators: E. Rigby		Form completed by: E. Rigby
Temperature (°F): 65	Rainfall (in.): Last 24 hours: 0.03	Last 48 hours: 0.02
Camera: Sony Cyber-Shot		Photo #s: Outfall - 141/142 (1-4)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Unknown	In Water: ☐ No ☐ Partially ☒ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

MAJOR BREAK IN ASPHALT; STORM PIPES SEVERELY DAMAGED (BROKEN, CRUSHED AND SUBMERGED IN WATER)

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Crushed and broken pipes
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F15		Outfall ID: 143
Today's date: 11/18/2013		Time (Military): 1225
Investigators: E. Rigby		Form completed by: E. Rigby
Temperature (°F): 67	Rainfall (in.): Last 24 hours: 0.03	Last 48 hours: 0.02
Camera: Sony Cyber-Shot		Photo #s: Outfall - 143 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☒ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 36"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☒ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ALMOST ENTIRELY FILLED WITH SAND/SEDIMENT.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E15		Outfall ID: 145
Today's date: 11/18/2013		Time (Military): 1235
Investigators: E. Rigby		Form completed by: E. Rigby
Temperature (°F): 67	Rainfall (in.): Last 24 hours: 0.03	Last 48 hours: 0.02
Camera: Sony Cyber-Shot		Photo #s: Outfall - 145 (1-4)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☒ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☒ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 24" (x3)	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☒ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ALMOST ENTIRELY FILLED WITH SAND/SEDIMENT.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G14		Outfall ID: 149
Today's date: 12/23/2013		Time (Military): 1025
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 149 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Transportation

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☒ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 72" H X 120" L	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width:_____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☒ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I16		Outfall ID: 151
Today's date: 11/18/2013		Time (Military): 1115
Investigators: E. Rigby		Form completed by: E. Rigby
Temperature (°F): 65	Rainfall (in.): Last 24 hours: 0.03	Last 48 hours: 0.02
Camera: Sony Cyber-Shot		Photo #s: Outfall - 151 (1-4)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Motor Freight Transportation & Warehousing

Notes (e.g., origin of outfall, if known): SP-90 and SP-82

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Unknown	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

APPEARS TO BE FILLED WITH CONCRETE AND IS OVERGOWN WITH VEGETATION ON TOP.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: C4		Outfall ID: 158
Today's date: 11/19/2013		Time (Military): 1205
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.03
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 158 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

EXCESSIVE VEGETATION/BRUSH AROUND THE OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: N/A		Outfall ID: 199
Today's date: 11/25/2013		Time (Military): 0640
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 18	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 199

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: Deperming Water Exchange System
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): The salt water/glycol exchange system is only in operation 4 times a year for about 12 hours each time.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 4"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 300
Today's date: 11/14/2013		Time (Military): 1325
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 52	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 300 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☒ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☒ Other: RCP w/ Metal Gate	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 15'	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☒ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

FLOW DIRECTION IS DRAINING AWAY FROM CANAL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☐ Green ☒ Other: White	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 315
Today's date: 11/14/2013		Time (Military): 1209
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 315 (1-3)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): SP-123 (Special Operations)

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 24"	In Water: ☐ No ☐ Partially ☒ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 317
Today's date: 11/14/2013		Time (Military): 1235
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 52	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 317 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☒ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 24"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☒ **Open drainage**	☒ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☒ Other: Rectangular		Depth: Approx. 6' Top Width: Approx. 25' Bottom Width: Approx. 25'	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☒ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL IS THE ENTIRE OPEN CHANNEL (NEWLY BUILT), SUBJECT TO TIDAL FLOW

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	Due to tidal changes
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 318
Today's date: 11/14/2013		Time (Military): 1226
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 51	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 318 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 24"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL IS RESTRICTED DUE TO NEW CONCRETE CHANNEL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 319
Today's date: 11/14/2013		Time (Military): 1315
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 52	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 319

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): SP-132

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 15"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 320
Today's date: 11/14/2013		Time (Military): 1302
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 52	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 320

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): SP-132

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 15"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 321
Today's date: 11/14/2013		Time (Military): 1245
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 52	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 321 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): SP-30

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 6"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 322
Today's date: 11/14/2013		Time (Military): 1350
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 52	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 322

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): SP-132

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 18"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

RUSTY

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☒ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 323
Today's date: 11/14/2013		Time (Military): 1338
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 52	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 323

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): SP-124

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 324
Today's date: 11/14/2013		Time (Military): 1258
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 52	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 324 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): SP-108 (Religious Chapel)

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 18"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J14		Outfall ID: 325
Today's date: 11/14/2013		Time (Military): 1312
Investigators: B. Jack, E. Rigby		Form completed by: E. Rigby
Temperature (°F): 52	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.0
Camera: Sony Cyber-Shot		Photo #s: Outfall - 325 (1-2)

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☒ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known): SP-124

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Approx. 15"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: O-12		Outfall ID: Discharge 332
Today's date: 12/23/2013		Time (Military): 1020
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 332 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other:_____
☐ Commercial	Known Industries: Air Transportation/ Land Transportation and Warehousing, General Warehousing and Storage

Notes (e.g., origin of outfall, if known):

Wash rack, LP 100, LP 205, LP 82 and LP 205A

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 18"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No Unknown flow, due to being submerged				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Thick vegetation surrounding outfall.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: P-11		Outfall ID: Discharge 334
Today's date: 12/23/2013		Time (Military): 1045
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 334 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other:_____
☐ Commercial	Known Industries: Airports, Flying Fields, and Airport Terminal Services

Notes (e.g., origin of outfall, if known):

Runway / airport terminal area leading to outfall

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	Unknown flow, due to being submerged			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Staining around outfall.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: P-11		Outfall ID: Discharge 335
Today's date: 12/23/2013		Time (Military): 1045
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 335 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other:_____
☐ Commercial	Known Industries: Airports, Flying Fields, and Airport Terminal Services

Notes (e.g., origin of outfall, if known):

Runway / airport terminal area leading to outfall – drains into open channel ditch after outfall

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☒ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 7'x4'	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	Unknown flow, due to being submerged			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Staining around outfall.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: P-11		Outfall ID: Discharge 336
Today's date: 12/23/2013		Time (Military): 1045
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 336 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other:_____
☐ Commercial	Known Industries: Airports, Flying Fields, and Airport Terminal Services

Notes (e.g., origin of outfall, if known):

Runway / airport terminal area / parking lot draining to outfall – drains into open channel ditch after outfall

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 48"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	Unknown flow, due to being submerged			
Flow Description (If present)	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: P-11		Outfall ID: Discharge 338
Today's date: 12/23/2013		Time (Military): 1035
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 338 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other:_____
☐ Commercial	Known Industries: Airports, Flying Fields, and Airport Terminal Services

Notes (e.g., origin of outfall, if known):

Airport terminal area draining to outfall – drains into open channel ditch after outfall

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	Unknown flow, due to being submerged			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: P-11		Outfall ID: Discharge 339
Today's date: 12/23/2013		Time (Military): 1035
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 339 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other:_____
☐ Commercial	Known Industries: Airports, Flying Fields, and Airport Terminal Services

Notes (e.g., origin of outfall, if known):

Airport terminal area draining to outfall – drains into open channel ditch after outfall

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	Unknown flow, due to being submerged			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☒ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: N-03 and N-04		Outfall ID: Discharge 401
Today's date: 12/23/2013		Time (Military): 0720
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 401 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: Fuel Tanks
☐ Commercial	Known Industries: Land Transportation and Warehousing, General Warehousing and Storage (Fuel Farm)

Notes (e.g., origin of outfall, if known):

Buildings CEP 1-4 are partially above ground storage fuel tanks. Outfall appeared to be associated with an Oil/Water Separator which is associated with stormwater only.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No	Unknown flow, due to being submerged			
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: I9		Outfall ID: 404
Today's date: 12/23/2013		Time (Military): 0822
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 404 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing, General Refrigerated, and Special

Notes (e.g., origin of outfall, if known): Outfall appeared to be associated with an Oil/Water Separator which is associated with stormwater only.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☒ Other: Inlet	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: K-09		Outfall ID: 408
Today's date: 12/23/2013		Time (Military): 1100
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 408 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing; Repair Shops and Related Services; and HazWaste Treatment and Storage Facilities

Notes (e.g., origin of outfall, if known): Associated Bldgs. LP-20, LP-22, LP-24, & LP-26

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☒ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☒ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: RCP = 18" CMP = 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L-08		Outfall ID: 410
Today's date: 12/23/2013		Time (Military): 1130
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 410

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space – Next to Airfield
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known): Associated with the LP Fuel Farm

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other: Observed a PVC pipe within a concrete pipe	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 10"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L-09		Outfall ID: 411
Today's date: 12/23/2013		Time (Military): 1110
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 413

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space – Next to Airfield
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known): Associated with the LP Fuel Farm. Inlet outfall covered by a metal crate/enclosure. Water was present within the inlet, but no flow could be detected.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☒ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 10" & 12"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
ODOR	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: K-09		Outfall ID: 413
Today's date: 12/23/2013		Time (Military): 1115
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 413

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space – Next to Airfield
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known): Associated with the LP Fuel Farm. Inlet outfall covered by a metal crate/enclosure. Water was present within the inlet, but no flow could be detected.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☒ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☒ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: Steel = 10" PVC = 3"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: K-09		Outfall ID: 417
Today's date: 12/23/2013		Time (Military): 1125
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 417

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space – Next to Airfield
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known): Associated with the LP Fuel Farm. Inlet outfall covered by a metal crate/enclosure. Water was present within the inlet, but no flow could be detected.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L-08		Outfall ID: 419
Today's date: 12/23/2013		Time (Military): 1135
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 419

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space – Next to Airfield
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known): Associated with the LP Fuel Farm

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: L-08		Outfall ID: 420
Today's date: 12/23/2013		Time (Military): 1140
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 420 (1-2)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☒ Open Space – Next to Airfield
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Land Transportation and Warehousing

Notes (e.g., origin of outfall, if known): Associated with the LP Fuel Farm

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: J3		Outfall ID: 422
Today's date: 2/12/2014		Time (Military): 1030
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 31	Rainfall (in.): Last 24 hours: 0.0	Last 48 hours: 0.09
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 422 (1-3)

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Steam Facilities

Notes (e.g.., origin of outfall, if known): Building Z-312

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: Q-9		Outfall ID: Discharge 605
Today's date: 12/23/2013		Time (Military): 1245
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 605

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☒ Institutional
☐ Suburban Residential	Other: School – Camp Allen Elementary School
☐ Commercial	Known Industries: _____

Notes (e.g., origin of outfall, if known):

School – Camp Allen Elementary School.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24"	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***		Unknown flow, due to being submerged	
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL STATION NORFOLK – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: R-7		Outfall ID: Discharge 611
Today's date: 12/23/2013		Time (Military): 1230
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 69	Rainfall (in.): Last 24 hours: 0.15	Last 48 hours: 0.15
Camera: Nikon COOLPIX AW110		Photo #s: Outfall - 611

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Repair Shops and Related Services

Notes (e.g., origin of outfall, if known):

Outfall pipe surrounded by dense wetlands. Actual outfall "pipe end" not able to be photographed due to thick vegetation.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 18"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***		Unknown flow, due to being submerged	
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Thick wetland vegetation around outfall pipe and some trash/debris in vicinity of outfall.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: C14		Outfall ID: 001, 901
Today's date: 5/2/2013		Time (Military): 0825
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 54	Rainfall (in.): Last 24 hours: 0.03	Last 48 hours: 0.11
Camera:		Photo #s: Outfall 001-901

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Transportation Facilities

Notes (e.g.., origin of outfall, if known): Outfall is basically a ditch that is behind hole 12 on the golf course.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☒ Other: Ditch		Depth: 3' Top Width: 20' Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☐ Clear ☒ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F11		Outfall ID: 111
Today's date: 5/1/2013		Time (Military): 0945
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 55	Rainfall (in.): Last 24 hours: 0.08	Last 48 hours: 0.92
Camera:		Photo #s: Outfall 111

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):
Process water from landscaping vehicle equipment, pesticide mixing and golf course maintenance activities.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 4"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

RECOMMEND PRETREATMENT SYSTEM BE ACTIVATED OR LANDSCAPING EQUIPMENT BE RINSED OVER PERVIOUS SURFACE..

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐ See	severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Co rrosion	Pretreatment system not in use; process water flows directly to storm drain. New BMP in place to wash equipment over grassy surface.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: C3		Outfall ID: 002
Today's date: 4/30/2013		Time (Military): 0940
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 55	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 002

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Transportation Facilities

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☒ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 4' 	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: C14		Outfall ID: 001, 901
Today's date: 5/2/2013		Time (Military): 0825
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 54	Rainfall (in.): Last 24 hours: 0.03	Last 48 hours: 0.11
Camera:		Photo #s: Outfall 001-901

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Transportation Facilities

Notes (e.g.., origin of outfall, if known): Outfall is basically a ditch that is behind hole 12 on the golf course.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☒ Other: Ditch		Depth: 3' Top Width: 20' Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☐ Clear ☒ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: F11		Outfall ID: 111
Today's date: 5/1/2013		Time (Military): 0945
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 55	Rainfall (in.): Last 24 hours: 0.08	Last 48 hours: 0.92
Camera:		Photo #s: Outfall 111

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):
Process water from landscaping vehicle equipment, pesticide mixing and golf course maintenance activities.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 4"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

RECOMMEND PRETREATMENT SYSTEM BE ACTIVATED OR LANDSCAPING EQUIPMENT BE RINSED OVER PERVIOUS SURFACE..

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: B6		Outfall ID: 003
Today's date: 4/30/2013		Time (Military): 1005
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 55	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 003

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☒ Other: Earthen/Concrete Channel		Depth: 2' Top Width: 15' Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☐ Clear ☒ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: A10		Outfall ID: 004
Today's date: 4/30/2013		Time (Military): 1530
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 65	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 004

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Transportation Facilities

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☒ Triple ☐ Other: _____	Diameter/Dimensions: 5' 	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: B6		Outfall ID: 003
Today's date: 4/30/2013		Time (Military): 1005
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 55	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 003

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☒ Other: Earthen/Concrete Channel		Depth: 2' Top Width: 15' Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☐ Clear ☒ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: A10		Outfall ID: 004
Today's date: 4/30/2013		Time (Military): 1530
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 65	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 004

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Transportation Facilities

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☒ Triple ☐ Other: _____	Diameter/Dimensions: 5' 	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: D1		Outfall ID: 005
Today's date: 5/1/2013		Time (Military): 0820
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 53	Rainfall (in.): Last 24 hours: 0.08	Last 48 hours: 0.92
Camera:		Photo #s: Outfall 005

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Transportation Facilities

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☐ RCP ☒ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 4' 	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☒	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☒ Sulfide ☐ Other:	☐ 1 – Faint	☒ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☒	☐ Sewage (Toilet Paper, etc.) ☒ Suds ☐ Petroleum (oil sheen) ☐ Other:	☒ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☐ Unlikely ☒ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G2		Outfall ID: 006
Today's date: 4/30/2013		Time (Military): 1445
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 64	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 006

Land Use in Drainage Area (Check all that apply):

☒ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: Air Transportation Facilities

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☒ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 4' 	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

TRASH (I.E. BICYCLE AND BUCKET) NEEDS TO BE REMOVED.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☒	☐ Sewage (Toilet Paper, etc.) ☒ Suds ☐ Petroleum (oil sheen) ☐ Other:	☒ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: B9		Outfall ID: 007
Today's date: 4/30/2013		Time (Military): 1540
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 64	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 007

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☒ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 5' 	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

REMOVE VEGETATION GROWTH AROUND OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: G4		Outfall ID: 008
Today's date: 4/30/2013		Time (Military): 1445
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 64	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 008

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 4'	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NEEDS INFRASTRUCTURE REPAIRS (ABOUT A 12" X 3" PIECE OF CONCRETE MISSING).

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☒ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H6		Outfall ID: 009
Today's date: 4/30/2013		Time (Military): 1455
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 64	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 009

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 2'	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No (*If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (*If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H6		Outfall ID: 010
Today's date: 4/30/2013		Time (Military): 1500
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 64	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 010

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☒ Other: Ditch		Depth: N/A Top Width: N/A Bottom Width: N/A	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: H9		Outfall ID: 011
Today's date: 4/30/2013		Time (Military): 1430
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 64	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 011

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☒ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 3' 	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☐ Yes ☒ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☐ Flow Line ☐ Paint ☒ Other: Sheen	Small presence of vegetation sheen.
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☒	☐ Brown ☐ Orange ☒ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: N/A		Outfall ID: 012
Today's date: 4/30/2013		Time (Military): 1505
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 64	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 012

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☒ Parabolic ☐ Other: _____		Depth: 3' Top Width: 7' Bottom Width: N/A	
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 5*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

REMOVE TRASH AND VEGETATION GROWTH AROUND OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☒	☒ Excessive ☐ Inhibited	Excessive vegetation and trash/debris.
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: N/A		Outfall ID: 013
Today's date: 4/30/2013		Time (Military): 1520
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 64	Rainfall (in.): Last 24 hours: 0.84	Last 48 hours: 1.33
Camera:		Photo #s: Outfall 013

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☒ Parabolic ☐ Other: _____		Depth: 2' Top Width: 5' Bottom Width: N/A	
Flow Present?	☐ Yes ☒ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

REMOVE VEGETATION GROWTH AROUND OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☒	☒ Excessive ☐ Inhibited	Excessive vegetation.
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

NAVAL AIR STATION OCEANA – SITE COMPLIANCE EVALUATION OUTFALL SCREENING FORM

Section 1: Background Data

Map Tile: E1		Outfall ID: 014
Today's date: 5/1/2013		Time (Military): 0845
Investigators: B. Jack		Form completed by: B. Jack
Temperature (°F): 53	Rainfall (in.): Last 24 hours: 0.08	Last 48 hours: 0.92
Camera:		Photo #s: Outfall 014

Land Use in Drainage Area (Check all that apply):

☐ Industrial	☐ Open Space
☐ Ultra-Urban Residential	☐ Institutional
☐ Suburban Residential	Other: _____
☐ Commercial	Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ **Closed Pipe**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 3'	In Water: ☐ No ☒ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	☒ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☒ Moderate ☐ Substantial				

Section 3: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

REMOVE VEGETATION GROWTH AROUND OUTFALL.

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☒ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☒	☒ Excessive ☐ Inhibited	Excessive vegetation.
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Evidence of Pollution at Outfall

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Inspectors: W. Bullard, H. Grayson

Date: Site visit: 12/13/2013

Building No.: 105, 106, 110

Facility Descriptions: <90 day RCRA Hazardous Waste Storage Site

Outfall(s): 001

Map Sheet: 30

POC: Tyler Wieneke

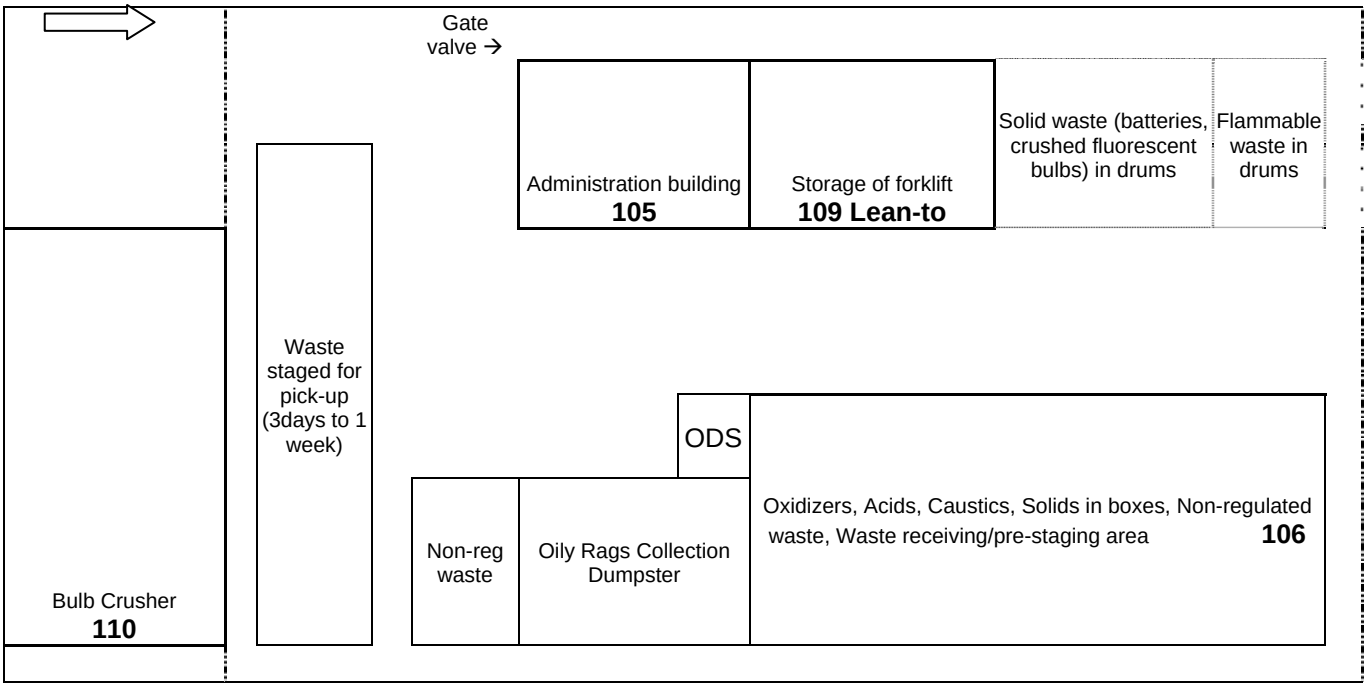
Industrial Activity:

- Resource Conservation and Recovery - < 90 day Hazardous Waste Accumulation site – Bldg 105 is the administration building; Building 106 is the Hazardous Waste storage building; and Building 110 is used for equipment storage and support.

Personnel Interviewed:

- Tyler Wieneke

Outdoor Material Storage:



Evidence of Storm Water Pollution and its Source:

- N/A

Identify and Assess Sufficiency of Existing BMPs:

- Berm surrounding facility and valve for shutoff in the event of a spill. **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:

- Housekeeping: **SUFFICIENT**
- BMP Maintenance: Replace POL specific drain insert annually. **SUFFICIENT**

Describe Status of BMPs Previously Planned:

- None planned.

List Any Leaks or Spills and Inventory of Spill Equipment:

- Spills: Evidence of historic paint spills. None reported in 2013.
- Spill Equipment: Spill equipment kept in and around building 106. Kits include shovels and absorbent materials.

List Deficiencies Noted in Facility Inspection Reports:

- No deficiencies noted

List Permit Non-Compliance and Exceedance of Decision Criteria Noted in 2013:

- At outfall 001:
  - All permit limits were met.
  - Decision criteria for Cu were met for 2013.
  - Toxicity was >100% control survival.

Non-storm Water Discharges:

- None observed.

ASTs:

- None

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- The need for a sign to instruct valve open/close procedures will be reviewed.

Compliance:

Overall, site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. White

Date: Site visit: 12/17/2013

Facility Descriptions: NSWG-4; Vessel Berthing and Pier operations

Outfall(s): 001, 026, 027, 043

Map Sheet: 23 & 30

POC: Cecil Lee

Industrial Activity:

- SIC 4491 Marine Cargo Handling - Vessel Berthing and Pier Operations for NSWG-4 small craft. Minimal maintenance is performed onsite.

Personnel Interviewed:
- Cecil Lee

Buildings and Piers:
Pier 60 - One vessel present
Pier 61 - Empty
Building 103 – Storage area and offices
Building 104 – Storage
Building 108 – Administrative spaces, OWS outside but no longer has purpose
Building 108A - Quarterdeck
Building 115 - Storage

Outdoor Material Storage:
- Battery storage locker
- Drum crusher
- Dumpster
- Metal roll-off
- Miscellaneous wood
- Spill kit
- Used tires (behind OWS)
- Conex box
- Miscellaneous wood & metal
- Trailers (varies)
- Vehicles/Equipment (varies)

Evidence of Storm Water Pollution and its Source:
- N/A

Identify and Assess Sufficiency of Existing BMPs:

- Pier area and long term docking BMPs listed in VPDES Permit VA0079928, Part I.B.7 – **SUFFICIENT**
- Training provided to Environmental Coordinator personnel – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Spill kits containing rags, shovels, and absorbent materials.

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance and Exceedance of Decision Criteria Noted in 2011:
- OF 001:
  - All permit limits were met.
  - Decision criteria for Cu were met for 2011.
  - Toxicity was >100% control survival.
- OF 026, OF 027, and OF 043: No monitoring performed/required during 2011.

Non-storm Water Discharges:
- None observed

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
- None planned.

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. White

Date: Site visit: 12/17/2013

Facility Descriptions: Surface Warfare Group-4 & SPECBOAT 20 Support Buildings

Outfall(s): 001 and 043

Map Sheet: 23

POC: Cecil Lee

Industrial Activity: Boat maintenance and repair

Buildings:
- Building 116 – Maintenance and light repair, office space and lockers
- Building 117 – Maintenance and boat repair
- Building 119 - Storage
- Building 120 – Parachute cleaning & repair (Air Ops Support)

Personnel Interviewed:
- Cecil Lee

Outdoor Material Storage:
Building 116
- Garbage, wood, solid waste and cardboard dumpsters
- Vehicles, boats, equipment (varies)
- Conex boxes

Building 117
- 2 Drums for air handler
- Wood pallets (several)
- Forklift
- Gator

Building 119
- Conex boxes
- Garbage dumpster
- Pallets
- HM lockers

Building 120
- Conex boxes (varies)
- GOVs and Bus
- Boat trailers (varies)

Evidence of Storm Water Pollution and its Source:
- None Observed

Identify and Assess Sufficiency of Existing BMPs:

- Use of flammable materials storage locker: **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill Equipment: Shovels, rags, and oil absorbents

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance and Exceedance of Decision Criteria Noted in 2013:
- OF 001:
  - All permit limits were met.
  - Decision criteria for Cu were met for 2011.
  - Toxicity was >100% control survival.
- OF 043: No monitoring performed/required during 2013.

Non-storm Water Discharges:
- None observed

ASTs:
- None

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
  - None planned

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. White

Date: Site visit: 12/17/2013

Building No.: 118

Facility Descriptions: Hazardous Material & Hazardous Waste Storage

Outfall(s): 001

Map Sheet: 23

POC: Cecil Lee

Industrial Activity:
- Hazardous material storage & hazardous waste accumulation site

Personnel Interviewed:
- Cecil Lee

Outdoor Material Storage:
- Empty 55 gallon drums
- HM storage lockers
- Two covered spill containment pallets for storage of materials and waste

Evidence of Storm Water Pollution and its Source:
- Old oil stain on ground surrounding the used oil AST (old stain).

Identify and Assess Sufficiency of Existing BMPs:
- Hazmat lockers – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill Equipment: spill kit containing shovel, rags, absorbent materials

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked

for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance and Exceedance of Decision Criteria Noted in 2011:

- At OF 001:
  - All permit limits were met.
  - Decision criteria for Cu were met for 2010.
  - Toxicity was >100% control survival.

Non-storm Water Discharges:

- None observed

ASTs:

- LC-118-AST-01 500 gallon used oil
- LC-118-AST-11 250 gallon diesel

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None Planned

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. White

Date: Site visit: 12/17/2013

Facility Descriptions: Surface Warfare Group-4 & SPECBOAT 20

Outfall(s): 001 and 003

Map Sheet: 30

POC: Cecil Lee

Industrial Activity: Boat maintenance and repair

Buildings:
- Building 123 – Administrative, storage, wet suit rinsing (sediment traps to remove sediment with discharge to storm)
- Building 124 – Boat storage, Boat maintenance and light repair
- Fabricated Bldgs – South of 123 – boat and equipment storage

Personnel Interviewed:
- Cecil Lee

Outdoor Material Storage:
- Boats
- Equipment
- Conex boxes
- Trailers and trailer parts
- Miscellaneous wood and metal

Evidence of Storm Water Pollution and its Source:
- None Observed

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill Equipment: Shovels, rags, and oil absorbents

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance and Exceedance of Decision Criteria Noted in 2013:

- OF 001:
  - All permit limits were met.
  - Decision criteria were met.
  - Toxicity was >100% control survival.
- OF 003 - All permit limits were met.

Non-storm Water Discharges:

- Wet suit rinsing

ASTs:

- None

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None planned

Compliance:

Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. White

Date: Site visit: 12/17/2013

Facility Descriptions: NSWG4 and SPECBOAT 20

Outfall(s): 001 and 046

Map Sheet: 30

POC: Cecil lee

Industrial Activity:
- Boat maintenance and light repair

Buildings:
Building 107 – Administrative spaces
Building 107A - Administrative
Building 107C – Electronics supply
Building 126 – Boat maintenance and light repair, OWS outside for boat wash, engine flush and bilge drain
Building 127 - Boat storage, maintenance and light repair

Personnel Interviewed:
- Cecil Lee

Outdoor Material Storage:
- Spill kit
- Dumpsters
- Conex boxes

Evidence of Storm Water Pollution and its Source:
- None observed

Identify and Assess Sufficiency of Existing BMPs:
- Spill kits and HM lockers – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- OWS installed away from waterfront area for activity use at Building 126. Training provided to command on proper use of washrack. **SUFFICIENT**
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill Equipment: It contains shovels, rags and oil absorbents.

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance and Exceedance of Decision Criteria Noted in 2013:

- OF 001:
  - All permit limits were met.
  - Decision criteria met in 2013.
  - Toxicity was >100% control survival.
- OF 046 – no monitoring required

Non-storm Water Discharges:

- None observed

ASTs:

- LC-126-AST-01 250 gallon diesel. No evidence of spills observed.

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None planned

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/16/2013

Building No.: 3827

Facility Descriptions: Washrack for Landing Craft Air Cushion (LCACs)

Outfall(s): 002/902 (but only receive overspray from LCAC rinse activity and rainfall not captured by washrack trench trains)

Map Sheet: 2

POC: Senior Chief Johnson

Industrial Activity:

- LCAC are rinsed down after coming out of the water. Only salt water and sand are rinsed off. Trench drains in the wash rack capture rinse water and discharge to an OWS. The treated water is pumped from the OWS to a recycle tank to be reused in LCAC rinse operations. A valve allows the recycle tank to discharge to HRSD when necessary. Only rinse overspray and rain not captured by the trench drains discharge to storm.

Personnel Interviewed:

- Senior Chief Johnson

Outdoor Material Storage:

- None observed

Evidence of Storm Water Pollution and its Source:

- None identified.

Identify and Assess Sufficiency of Existing BMPs:

- Wash rack, oil water separator and recirculation unit: **SUFFICIENT** for keeping wash water and accompanying pollutants from entering storm system. Washrack was in working condition during inspection.

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:

- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:

- None planned.

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.

- Spill Equipment: Spill kits are kept in Bldg 3822 and in maintenance Bays

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance in 2013:

- OF 002: All permit limits met.
- OF 902: Stormwater sample violated pH limit (9.4 vice </= 9.0) in July due to contact with uncured concrete. Contractor was instructed to prevent stormwater from reaching a storm drain (drain blocker) if contacting concrete that was not sufficiently cured.

Non-storm Water Discharges:

- Overflow of wash water (recycling tank) is discharged to the sanitary sewer system. No non-storm discharges are released to the storm system.

ASTs:

- Recirculated rinse water

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None planned.

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/16/2013

Building No.: LCAC Ramp and Tarmac

Facility Descriptions: LCAC Storage, maintenance, operation, and fresh water rinsing area

Outfall(s): 002/902 and 009/909

Map Sheet: 2

POC: Senior Chief Johnson

Industrial Activity:
- LCAC are parked, maintained, and operated. Painting and major maintenance is performed inside of garage. Minor maintenance is performed outside. Craft are parked outside on tarmac. Fresh water rinsing of craft on tarmac immediately after going through wash rack and parking.

Personnel Interviewed:
- Senior Chief Johnson

Outdoor Material Storage:
- Landing Craft
- Spill Kits
- Maintenance equipment (temporarily stowed on tarmac while maintenance performed)

Evidence of Storm Water Pollution and its Source:
- None evident.

Identify and Assess Sufficiency of Existing BMPs:
- Large garage bays used for maintenance of LCACs – **SUFFICIENT**
- Spill kits located in maintenance bays – SUFFICIENT
- Oil Water Separators located between maintenance bays to remove oil from any water internal to the buildings. Those OWSs discharge to the sanitary sewer system – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional

training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill Equipment: Absorbent materials

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:
- OF 002: All permit limits met.
- OF 902: Stormwater sample violated pH limit (9.4 vice </= 9.0) in July due to contact with uncured concrete. Contractor was instructed to prevent stormwater from reaching a storm drain (drain blocker) if contacting concrete that was not sufficiently cured.

Non-storm Water Discharges:
- None observed at time of site inspection; however, OF 002 is permitted for LCAC rinsing.

ASTs:
- None

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
- None planned.

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/16/2013

Building No.: LCAC Operating area (back 1/3 of Tarmac) and Fuel Pits

Facility Descriptions: LCAC fueling and Parking and Maintenance

Outfall(s): 010

Map Sheet: 2

POC: Senior Chief Johnson

Industrial Activity:

- LCAC are parked and lightly maintained on the south end of the tarmac. In addition, LCACs are fueled in a designated fueling rack which drains through an oil water separator to HRSD. The valve controlling discharge to the OWS remains shut. It is only opened to receive rinse water after a fuel spill has occurred or to discharge accumulated rain water that won't evaporate. Due to the volume of the drop inlets (to OWS) and sloped pavement in this area these practices prevent any fuel or rain from discharging to storm. LCACs also undergo maintenance beneath a semi-permanent tent structure - Surface Life Extension Program (SLEP). NSSA oversees contractual work.

Personnel Interviewed:

- Senior Chief Johnson

Outdoor Material Storage:

- Southeast end of tarmac
  - Conex boxes (varies) for parts storage
  - Wooden boxes – East of fueling rack
- Lay-down Area (behind fueling rack on tarmac)
  - Wood and trash dumpsters
  - Travel Lifts
- Under Fueling Dock
  - 55-gallon drums (Non Hazardous labels)
  - Secondary containment pallet
  - Spill Kit
- HazMat/Supply (Building 3822 – inside fence)
  - Scrap metal dumpster
  - Flammable material storage lockers
  - Wood crates and material boxes
  - Plastic containers, clam shells
  - Can crusher
  - Miscellaneous metal storage on metal racks
  - 55-gallon drums (varies)
  - Spill kits

    - Fuel and oily rags in Poly Pac (varies)
- Supply Department:
    - Wood materials and crates
    - Plastic
    - Metal storage

Evidence of Storm Water Pollution and its Source:
- None observed.

Identify and Assess Sufficiency of Existing BMPs:
- Fuel pit containment drains to an OWS connected to the sanitary system to prevent any POL lost during fueling from reaching the storm system - **SUFFICIENT**
- Wood dumpster – **SUFFICIENT**
- Semi-permanent tent structure for LCAC SLEP – **SUFFICIENT**
- Drop inlet covers within tent structure to prevent metal and debris from entering storm system – **SUFFICIENT**
- Secondary containment located under fueling rack. - **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Spill kits contain adsorbent materials

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance:
- OF 010: No monitoring performed/required during 2013.

Non-storm Water Discharges:
- None observed.

ASTs:
- LC-3821-AST-03 2000 gallon used oil
- LC-3821-AST-04 2000 gallon used oil

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None planned.

Compliance:

Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard, R. White

Date: Site visit: 12/13/2013

Building No.: 777

Facility Descriptions: Steam Plant, Water Treatment, Fuel Tanks, Fuel Loading Area, OWS

Outfall(s): 003

Map Sheet: 31

POC: Ken Wessling

Industrial Activity:
- Generation of steam for distribution throughout the base. Processes include reverse osmosis, multi-media filters, and OWS.

Personnel Interviewed:
- N/A

Outdoor Material Storage:
- Flammable lockers (2)
- Solid Waste dumpster (1)
- PolyPac
- Eye Wash
- Conex boxes (3)
- TWPS units

Evidence of Storm Water Pollution and its Source:
- None observed

Identify and Assess Sufficiency of Existing BMPs:
- Grass swale w/ riprap – **SUFFICIENT**
- PIV Valve (divert reject water to sanitary if necessary) – **SUFFICIENT**
- Flammable locker storage w/ risers – **SUFFICIENT**
- Solid Waste Dumpster – **SUFFICIENT**
- Fuel loading rack curb w/ design to drain back to secondary containment – **SUFFICIENT**
- Sign for operating fuel loading rack – **SUFFICIENT**
- Valve operated secondary containment for AST – **SUFFICIENT**
- PolyPac – **SUFFICIENT**
- OWS (checked periodically, would only receive fuel/oil if was spill) water very clean at time of inspection) – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**

- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Located by fuel loading station

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance:
- In compliance in 2013
- Annual toxicity was >100% control survival.

Storm Water Discharges:
- Reverse Osmosis reject water (city water not going through RO process). Is valve that can divert to sanitary if necessary.
- OWS
  - Tank Berm – rain water (pump to OWS, but could pump to storm)
  - Fuel Loading Area - rain water (pump to tank berm)
  - Floor drains around boilers (through OWS)
- Tactical Water Purification System (TWPS) training is sporadically held at field adjacent to 777. No water is allowed to enter storm system

Non-storm Water Discharges:
- Multimedia Filter backwash
- Reverse Osmosis diverted water
- Tactical Water Purification System (TWPS) training is sporadically held at field adjacent to 777. No water is allowed to enter storm system

ASTs:
- LC-775-AST-01 5,000 gal Diesel (for peak shaving generator)
- LC-777-AST-01 150 gal Diesel (inside bldg.)
- LC-778-AST-01 180,000 gal Fuel Oil
- LC-778-AST-03 5,000 gal Fuel Oil (for emergency spill containment at Fuel Loading Rack)

Planned/Possible BMPs to be implemented as a result of the 2012 Evaluation:
- None planned.

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/16/2013

Building No.: AFDL-6 and Pier 10

Facility Descriptions: Floating Dry Dock "Dynamic"

Outfall(s): 006/906

Map Sheet: 22

POC: LT Towles, LS3 Flores

Industrial Activity:
- SIC 3731-Ship Building and Repairing: Dry-dock operations include grit blasting, painting and other maintenance of small craft.

Personnel Interviewed:
- N/A

Outdoor Material Storage:
- None, dry dock recently returned from maintenance/repair at shipyard

Evidence of Storm Water Pollution and its Source:
- None observed

Identify and Assess Sufficiency of Existing BMPs:
- Dry-dock BMPs listed in VPDES Permit VA0079928, Part I.B.7. Additional BMPs planned. See below.

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- Based on study of hydroblast water treatment/capture alternatives it was decided to capture all hydroblast water and discharge to HRSD. Equipment has been purchased and will be tested prior to resumption of dock operations which is anticipated in late spring/early summer 2014.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill Equipment: Absorbent materials kept on barge and on the dock.

List Deficiencies Noted in Facility Inspection Reports:

- Dry dock was gone for maintenance/repair for most of 2013. In the past, many deficiencies revolved around good housekeeping practices, however, most deficiencies were corrected on site.

List Permit Non-Compliance and Exceedance of Decision Criteria Noted in 2013:

- OF 006
  - No discharges during 2013
- OF 906
  - Sampled in December but DMR and toxicity results not received yet.

Non-storm Water Discharges:

- Docked vessel washing and hydroblasting.

ASTs:

- None observed

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- Implement testing and operational use of Vacuum Boom hydroblast water capture system.

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/16/2013

Building No.: AFDL-6 Compound excluding the dry-dock

Facility Descriptions: Dry dock support

Outfall(s): OF 008

Map Sheet: 22

POC: LT Towles, LS3 Flores

Industrial Activity:
- Dry dock support

Personnel Interviewed:
- N/A

Outdoor Material Storage:
- Miscellaneous Metal and wood (varies)
- Rope
- Wood pallets holding chains
- Conex storage boxes (varies)
- Keel blocks (varies)
- Hoses
- Chains
- 2 drum clamshells with spill containment
- Flammable Lockers (2)
- Portable Generators (2) – next to barge (staged for painting)
- Dumpsters – scrap metal and solid waste
- In lean-to (1268)
  - Gas cylinders
  - Gas grill
  - Vending machine (out of order)
  - Blocking wood
  - Polypac 2-drum containments (3)

Evidence of Storm Water Pollution and its Source:
- Evidence of historic Paint stains

Identify and Assess Sufficiency of Existing BMPs:
- Filters in both drop inlets – **SUFFICIENT**
- Polypac and containment– **SUFFICIENT**
- Tarp and roof covering for material storage – **SUFFICIENT**
- Conex box storage lockers for material storage - **SUFFICIENT**

- Waste dumpsters – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill Equipment: Absorbent material, shovels, brooms – kept in barge and on dry-dock

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance and Exceedance of Decision Criteria Noted in 2013:
- No monitoring was conducted for associated outfalls.

Non-storm Water Discharges:
- None observed

ASTs:
- N/A

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
- None planned

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: B. Revell and C. Camerino

Date: Site visit: 12/16/2013

Building No.: CB-125

Facility Descriptions: Crane maintenance, Boat maintenance and & light repair, Material storage

Outfall(s): OF 007/907 & OF 047/947

Map Sheet: 16

POC: Goebel

Industrial Activity:

- Ship Building and Repair: Hull barnacle removal, spot blasting/painting and other maintenance of vessels and mobile piers (causeways). Conducted on south pad and on crush & run area surrounding CB-125. Vessel rinse & pressure wash also conducted on south pad.
- Equipment (Crane) maintenance and light repair. Heavier maintenance occurs in CB-125. Spot greasing and spot sand/paint also occurs in north crush and run area.

Personnel Interviewed:

- CB-125 personnel

Outdoor Material Storage:

- North/Northeast/Northwest of CB-125
  - Cranes
  - Conex boxes
  - Miscellaneous metal beams/ parts
  - Wood Beams
  - Metal rolling supports
  - Travel lift
  - Causeway section
- West of CB-125
  - Ballast sections
  - Mobile generators
  - Conex boxes for material storage
  - Empty 55-gallon drums (within fenced-in area for HM)
  - Metal scaffolding and sand bags (inside fenced area)
  - 55 gal drum (varies) empty (inside fenced area)
  - Metal durmat sections
  - (2) Lighterage craft on blocks
  - Rubber fenders
  - Cranes (to move conex boxes)
  - fork lifts

    - Wood pallets (varies) (empty)
    - Metal piping – staged for installation
    - Portable metal ladders
    - Travel lift
- East of CB-125
    - Causeway section (varies)
    - SW garbage dumpster
    - Recycle dumpster
    - Metal storage lockers
    - Conex boxes
- South pad
    - IBC container (hydraulic fluid)
- Southwest of CB-125
    - Bridge sections
    - Miscellaneous metal (varies)
    - Conex boxes (varies)
    - cable

Evidence of Storm Water Pollution and its Source:

- Except on cement slabs to the north and south of the building, all other areas are dirt or crush and run which can release sediment during heavy run.

Identify and Assess Sufficiency of Existing BMPs:

- Drop cloths and drip pans in use as necessary during outdoor maintenance operations – **SUFFICIENT**
- Air pollution control device bag-houses at each corner of building with drums to collect paint chips. Facility no longer used. – **SUFFICIENT**
- Drain filters have been installed in the drop inlets that are located in the asphalt to the east and west of the south pad to remove sediment. - **SUFFICIENT**
- Sweep south concrete pad of solids prior to any washing operation. –**SUFFICIENT**
- Biofiltration areas at South pad. These capture water from pressure wash of vessel hulls. In practice, little if any pressure wash actually reaches the biofiltration areas. The biofiltration areas also have a raised outlet with 6 or more inches of clearance. – **SUFFICIENT**
- See discussion on Decision Criteria for 907

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:

- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**. However, should periodically remind/retrain personnel on SOPs developed for vessel maintenance on south pad and in crush/run area.

Describe Status of BMPs Previously Planned:

- N/A

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional

training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill Equipment: Absorbent materials

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance and Exceedance of Decision Criteria Noted in 2013:
- OF 007, 047: No monitoring required during 2013.
- OF 907
  - Dissolved copper results have consistently met the Decision Criteria since 2007.
  - Dissolved zinc results have consistently exceeded the Decision Criteria since 2007. The installation of the biofiltration areas at the south pad has not resolved this stormwater issue. Further study is required.
  - Toxicity results (LC50) have consistently shown > 100% control survival since 2007.
- OF 947: No monitoring required. The permit list OF 907 as representative of OF 947.

Non-storm Water Discharges:
- Pressure washing of vessel hulls and causeways on the south pad to remove salt, marine growth, and barnacles. No detergent is used and minimal paint is removed attached to the barnacles. This is a permitted discharge.
- Periodic sump pump removal of groundwater that enters the agar inside the building. The water is discharged to a crush & run area and allowed to infiltrate into the ground.

ASTs:
- None observed

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
- See comments above regarding Decision Criteria exceedences for zinc.

Compliance:
- Site appears to be in compliance with SWPPP although zinc needs to be further addressed.

Inspectors: W. Bullard and H. Grayson

Date: Site visit: 12/12/2013

Facility Descriptions: ACU-2 pier operations & maintenance

Outfall(s): 811, 812, 813, 814

Map Sheet: 5 & 6

POC: PO Kegley

Industrial Activity:
- Vessel Berthing and Pier Operations for ACU-2 small craft
- Vehicle maintenance

Personnel Interviewed:
- None

Buildings & Piers:
Building 1522 – Offices, storage, vehicle maintenance bays (trench drains discharge to OWS on NW corner that discharges to sanitary)
Building 1522A – Armory
Piers 20-34 - Several patrol boats and a lighterage craft at piers

Outdoor Material Storage:
- West of Building 1522
  - Compressed gas cylinders (Halon, Oxygen, Argon, Nitrogen)
  - Miscellaneous metal (varies)
  - Fork lifts
  - Boats
  - Flammables locker
  - Clam shell for hazardous materials
  - Rubber bumpers
  - Compressed gas cylinders (Acetylene-9, small cylinder for compressor)
  - Portable air compressors
- North of Building 1522
  - Piers
  - Conex boxes (varies)
  - POV parking
  - Spill kits (2)
  - Clam shell
- Storage area to East of the entrance gate
  - 2 ASTs (Gasoline & diesel)
  - Conex boxes (varies)
  - Hoses
  - Small pumps

    - Miscellaneous metals
    - Water pump
    - Rope
    - POL drums in secondary containment
- South of Building 1522
    - Clam shell
    - Wood pallets
    - Commercial size refrigerators and freezers
    - Storage locker
    - HW SSA
- Piers 20-34
    - Wooden pallets
    - Scrap metal dumpster

Evidence of Storm Water Pollution and its Source:
Flaking paint chips are recurring issue at piers. Command periodically sweeps up.

Identify and Assess Sufficiency of Existing BMPs:
- Pier area BMPs listed in VPDES Permit VA0079928, Part I.B.7 –**SUFFICIENT**
- Hazardous Waste/Hazmat Storage Area –**SUFFICIENT**
- Dumpsters – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **INSUFFICIENT**

Describe Status of BMPs Previously Planned:
- None

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Standard spill kits with absorbent socks, pillows and granular material is located in the HazMat storage area.

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:
- No monitoring performed/required at outfalls during 2013.

Non-storm Water Discharges:

- None observed

ASTs:
- LC-1522-AST-03A (250 gallon containing gasoline)
- LC-1522-AST-03B (250 gallon containing diesel)

Planned/Possible BMPs to be implemented as a result of the 2011 Evaluation:
- None Planned

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. Little

Date: Site visit: 12/16/2013

Building No.: Piers 1-8 (finger piers) and Port Ops Quay Wall

Facility Descriptions: Pier operations

Outfall(s): 790, 791, 793, 794, 795, 796, 797, 798, and 035

Map Sheet: 22

POC: Port Ops

Industrial Activity:
- Vessel Berthing and Pier Operations for Port Ops vessels

Personnel Interviewed:
- None interviewed

Piers & Outdoor Material Storage:
- Pier 1 – empty
- Pier 2 – SPEC boat
- Pier 3 – Matthew Maury (TCC research vessel) with shore power, NOAA boat
- Pier 4 – NOAA vessel
- Piers 5-6 - empty
- Piers 7-8 – Multiple Boats (Marina Civilian Recreation Boats)
- Port Ops Quay Wall –Warping Tugs 1, 3, 8, and Army LCM

Evidence of Storm Water Pollution and its Source:
- None observed

Identify and Assess Sufficiency of Existing BMPs:
- Pier area and long term docking BMPs listed in VPDES Permit VA0079928, Part I.B.7 – **SUFFICIENT**
- Drain insert utilized in catch basin at intersection of Grapple and Gunston - **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional

training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: No activity being performed that warrants a spill kit.

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:
- No monitoring performed/required during 2013.

Non-storm Water Discharges:
- None observed

ASTs:
- None observed.

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
- None planned.

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and H. Grayson

Date: Site visit: 12/13/2013

Building No.: Piers 11-19 (Teen Piers)

Facility Descriptions: Pier Operations

Outfall(s): 808, 809, 810

Map Sheet: 6, 14 and 22

POC: N/A

Industrial Activity:
- SIC 4491 Marine Cargo Handling – Vessel berthing and pier operations

Personnel Interviewed:
- None

Piers & Outdoor Material Storage:
Pier 11
- USN Choctaw County
- Hoses
- Wood Pallet
- Solid waste container
- Recycling dumpster
- 55-gallon drums
- Air compressor

Pier 12
- Empty

Pier 13
- USS Del Monte (training vessel)

Pier 14
- USCG #905
- Forklift
- Port-a-John

Pier 15
- USS Widbey Island
- Hoses
- Gas cylinders
- Generator
- Forklift
- 500 gallon diesel (KTR)

Pier 16
- USS Fort McHenry

Pier 17
- Empty

Pier 18
- HOS Dominator

Pier 19
- YON 334
- Pier Access Road
- Dumpsters
- Container (Used Cooking Oil)
- Fuel truck
- Oily Waste Tanker (with spill containment)

Evidence of Storm Water Pollution and its Source:
- None observed

Identify and Assess Sufficiency of Existing BMPs:
- Pier area and long term docking BMPs listed in VPDES Permit VA0079928, Part I.B.7. - **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- BMP Maintenance: **SUFFICIENT**
- Housekeeping: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Spill kits are available on each vessel and spill equipment is also located near pier 19.

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:
- OF 080, 809, 810: No monitoring performed/required during 2013.

Non-storm Water Discharges:
- None Observed.

ASTs:

- None observed

Planned/Possible BMPs to be implemented as a result of the 2011 Evaluation:
- None Planned.

Compliance: Overall, site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/17/2013

Building No.: Desert Cove East - Piers 44-49

Facility Descriptions: Pier operations

Outfall(s): Sheet flow off piers and access road

Map Sheet: 8 & 9

POC: N/A

Industrial Activity:
- SIC 4491 Marine Cargo Handling – Vessel Berthing and Pier Operations

Personnel Interviewed:
- None

Piers & Outdoor Material Storage:
Pier 44
- Warping Tug (improved Navy lighterage)

Pier 44A
- Empty

Pier 45
- Empty

Pier 46
- Warping Tug

Pier 47
- Warping Tug

Pier 48
- Warping Tug

Pier 49
- Warping Tug

Evidence of Storm Water Pollution and its Source:
- None observed.

Identify and Assess Sufficiency of Existing BMPs:
- Pier area and long term docking BMPs listed in VPDES Permit VA0079928, Part I.B.7 - **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:

- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Inside CB-123 and CB-124

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance in 2013:
- Sheet flow off piers and access road: No monitoring performed/required during 2013.

Non-storm Water Discharges:
- None observed

ASTs:
- None observed

Planned/Possible BMPs to be implemented as a result of the 2011 Evaluation:
- None planned.

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/17/2013

Building No.: Desert Cove South (Piers 52-55)

Facility Descriptions: Pier operations

Outfall(s): Sheet flow off piers and access road

Map Sheet: 16

POC: N/A

Industrial Activity:
- SIC 4491 Marine Cargo Handling - Vessel Berthing and Pier Operations

Personnel Interviewed:
- None

Piers & Outdoor Material Storage:
Piers 52-55
- Empty

Evidence of Storm Water Pollution and its Source:
- None observed

Identify and Assess Sufficiency of Existing BMPs:
- Pier area and long term docking BMPs listed in VPDES Permit VA0079928, Part I.B.7 – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: No activity being performed that warrants a spill kit.

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked

for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:

- No monitoring performed/required during 2013

Non-storm Water Discharges:

- None observed

ASTs:

- None observed

Planned/Possible BMPs to be implemented as a result of the 2009 Evaluation:

- None planned.

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. Little

Date: Site visit: 12/12/2013

Building & Pier No.: Building 3869 and Desert Cove North Piers (36-43)

Facility Descriptions: Coastal Riverine Group

Outfall(s): 029 for Building 3869 compound, sheet flow off piers

Map Sheet: 8

POC: Coastal Riverine Group

Industrial Activity:
- Vessel Berthing and Pier Operations
- Vehicle and Marine Maintenance and Storage

Personnel Interviewed:
- None

Outdoor Material Storage:
East of Building 3869
- Wood pallets
- Conex boxes
- Plywood/lumber
- Fenced area
  - Hoses
  - A/C Units
  - Wooden boxes
  - Conex boxes
  - Tires
  - Wood
  - Miscellaneous metals
- Hazardous Material Storage Area
  - bermed but with open drain, fenced and locked but contains no waste as is going away; all tanks drained and cleaned

South of Building 3869
- Boat Trailer
- HazMat locker
- Conex boxes
- Tires

West of Building 3869
- equipment lay down area
- Conex and wood boxes
- Generators
- Miscellaneous metal storage

- Mobile flood lights
- Fork lifts
- Small cranes/lifts
- Trucks
- Humvees
- Deployable field AC units

Pier 36-37
- Patrol boats

Pier 38
- Riverine boat

Pier 39

Pier 40
- Navy Test Craft

Pier 41
- Small security boat

Pier 42
- Small Security Boat

Pier 43

Evidence of Storm Water Pollution and its Source:
- None.

Identify and Assess Sufficiency of Existing BMPs:
- Pier area and long term docking BMPs listed in VPDES Permit VA0079928, Part I.B.7 – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Recommended:
- None previously planned.

List Any Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Spill kit located in hazardous material storage area.

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:

- OF 029: Sampling is represented by Outfall 033 and no exceedence noted in 2013

Non-storm Water Discharges:
- None observed.

ASTs:
- LC-3869-AST-01 through AST-04: All empty and cleaned. Will be disposed by DRMO unless can be used elsewhere on base.

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
- None planned.

Compliance:
- Site appears to be in compliance with the SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/30/2013

Facility Descriptions: SEAL Compound

Outfall(s): 033 and 040

Map Sheet: 16 and 17

POC: Wally Waipa

Industrial Activity: Boat maintenance

Buildings:

- 3806 – North leg Empty.
- 3806 – East and South. Boat maintenance. Freshwater boat and trailer rinses outside on back side of building. Only small quantities of the rinse water reach a storm drain. Very little water is generated and most of it puddles and evaporates. There is no detergent used. Also, there are outdoor showers for rinse down after physical training. No soap is used.
- 3808
- 3812 – Storage, Administrative, Computer support, Medical staff
- 3813 – Storage, Administrative
- 3814 – Sub training facility – fresh water is used in training simulator then discharged to interior trench drains and out of door to storm.
- 3853 – Storage, Maintenance of small equipment and boats, Scuba and wet suit rinse, Engraver shop, Administrative
- 3855

Personnel Interviewed:

Outdoor Material Storage:

3806

- Flammable Material Storage Lockers (varies)
- Boats on trailers (varies) -
- Conex boxes (varies-many)
- Dumpsters

3812

- Conex boxes
- Trailers
- Spill kit
- Waste Dumpsters
- Metal pallets
- Hazmat lockers

3813

- Conex boxes (varies)
- Compressed gas cylinders (50+)

3814
- Flammable Storage lockers (varies)
- Conex boxes (varies)
- Boats and Trailers
- Spill Kit
- Wood blocking materials
- Miscellaneous wood
- Miscellaneous metals
- Diesel generator

3855
- Flammable Material Storage Locker
- Solid Waste Dumpsters
- 55-gallon drums on pallets

Evidence of Storm Water Pollution and its Source:
- None observed.

Identify and Assess Sufficiency of Existing BMPs:
- Equipment storage in Conex boxes - **SUFFICIENT**
- Flammable lockers - **SUFFICIENT**
- Dumpsters – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None previously planned.

List Any Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Spill kits stored in the compound. Kits contains absorbent materials (granular and pillows)

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:
- At OF 033 and 040: No exceedances observed for 2013.

Non-storm Water Discharges:

- Boat, trailer, scuba gear rinses. Outdoor showers for personnel rinse down.

ASTs:
- None observed

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
- None planned.

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. Little

Date: Site visit: 12/18/2013

Facility Descriptions: Port Operations

Outfall(s): 034 and 035

Map Sheet: 22 and 23

POC: BM2 McAvoy

Industrial Activity:
- SIC 4491 – Marine Cargo Handling. Some boat rinsing occurs where water drains through a grassy area.

Personnel Interviewed:
- None interviewed

Buildings & Piers:
- 2000 – Administrative, tool room, outside OWS connected to trench drains inside building (discharge to sanitary but no longer serves a purpose)
- 2000A – Satellite Accumulation Area
- MPQW Pier – 3 push tugs, Army LCM

Outdoor Material Storage:
- Fenced Hazmat/Storage area (South of Building 2000)
  - Shed – POL products, rags, PPE
  - SW dumpster
  - PolyPac – drums for engine oil
  - Flammable liquids locker
  - Clam shell – used oil, antifreeze
- Spill kit
- Forklift
- Oil boom
- Wood pallets
- Keel blocks
- Cable

Evidence of Storm Water Pollution and its Source:
- None

Identify and Assess Sufficiency of Existing BMPs:
- Flammable storage lockers – **SUFFICIENT**
- Drum containment – **SUFFICIENT**
- Oil & Grease Locker – **SUFFICIENT**
- Paint Storage Building – **SUFFICIENT**

- Infiltration grass swale used for draining fresh rinse boat wash water – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:
- At OF 034 & 035: No monitoring performed/required during 2013.

Non-storm Water Discharges:
- None

ASTs:
- LC-2000-AST-01: 475 gallon diesel (for emergency generator)

Planned/Possible BMPs to be implemented as a result of the 2011 Evaluation:
- None planned.

Compliance:
- Site appears to be in compliance with SWPPP

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/17/2013

Facility Descriptions: Fuel Farm

Outfall(s): 780, 781

Map Sheet: 8

POC: Kenny Garey/Gary Riffey 462-7494

Industrial Activity:
- SIC 4226 – Bulk Fuel Storage. Facility stores bulk fuel for loading and unloading trucks and marine craft. The facility also has dispensers used for fueling GOVs and POVs.

Personnel Interviewed:
- Kenny Garey

Buildings/Facilities:
- 3860 – Administrative, workshop, pump house (marine diesel to pier, diesel/gas to truck rack)
- 3861 – Covered truck loading rack
- 3826 – pump house (JP-5 for LCAC)
- NEX Gas Station – fuel dispensers, fuel tanks, truck off-load rack
- Marine Fuel Dispensers – on Desert Cove quay wall to serve small military and USCG craft

Outdoor Material Storage:
- Flammable Material Storage Locker
- Conex box
- Spill kit
- 55 gallon drum on secondary containment

Evidence of Storm Water Pollution and its Source:
- None.

Identify and Assess Sufficiency of Existing BMPs:
- Earthen berms with liners around Fuel ASTs (Marine diesel & JP-5) – **SUFFICIENT**
- Secondary containment for other AST– **SUFFICIENT**
- Leak detection systems – **SUFFICIENT**
- Containment curb with control valve for NEX truck offload – **SUFFICIENT**. However, see recommendation below.
- Containment curb for 3861 truck rack (drop inlet with discharge to UST) – **SUFFICIENT**.
- Spill kits – **SUFFICIENT**
- Solid waste dumpster – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**

- BMP Maintenance: **SUFFICIENT** except that spill containment for NEX truck off-load needs the following:
  - Check valve operation (appears stuck). When closed valve would hold fuel spill in containment area. When open rain water can discharge to storm.
  - Install sign with valve operating instructions.

Describe Status of BMPs Previously Planned:
- None planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks.

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:
- No monitoring performed/required during 2013.

Non-storm Water Discharges:
- None.

ASTs:
- LC-AST-3845-01 (250K Gal JP-5)
- LC-AST-3846-01 (250K Gal JP-5)
- LC-AST-3863-01 (50K Gal Marine Diesel)
- LC-AST-3864-01 (45K Gal Marine Diesel)
- LC-AST-3825 -01 (75 K Gal JP-5)
- LC-AST-3838-01 (10K Gal Gasoline, Convault)
- LC-AST-3839-01 (10K Gal Diesel, Convault)
- NEX: 3836A (10K Gal Gasoline)
- NEX: 3837 (10K Gal Diesel)

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
- None planned.

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard, H. Grayson

Date: Site visit: 12/13/2013

Building No.: 1618, 1619, 1620, 1621, 1622, 1623, and 1625

Facility Descriptions: EOD

Outfall(s): 045 and 832

Map Sheet: 6 & 14

POC: PO Kelly

Industrial Activity:
- SIC 2892 – Explosives. The Command's mission is to provide combat ready EOD and Diving & Salvage forces to the Fleet, eliminate ordnance hazards, clear harbors and approaches of obstacles, salvage/recover ships, aircraft and weapons lost or damaged in peacetime or combat.

Personnel Interviewed:
- PO Kelly

Buildings:
- Building 1618 (Administrative, medical, armory, woodshop)
- 1618 A, B, C (Administrative trailers)
- 1618 D-F (Armory)
- 1619 (Admin – EOD MO Unit 6)
- 1620 (Chief's Mess)
- 1621 (Storage)
- 1622 (Boat maintenance and light repair)
- 1623 (Vehicle maintenance and light repair, but changing to be same as 1622)
- 1625 (Boat/Vehicle maintenance and light repair)

Outdoor Material Storage
- Parking POV and GOV
- Spill kits
- Picnic tables
- Gazebo
- Bulk storage
- HazMat areas
- HW Satellite Accumulation Areas
- Storage containers
- Conex boxes on crush & run, and Conex boxes in new elevated storage area west of 1623.
- Trash dumpsters
- Cardboard dumpster
- Scrap Metal dumpster

- Solid Waste dumpster
- Wood pallets
- 55 gal recycle bin
- Emergency generator, plus associated belly tank (400 gal)
- Old equipment
- Boats (varies)
- Metal boxes (varies)
- Trailered boats
- Flammable material storage locker and battery storage
- Large and small fork lifts
- POLs – drums in secondary containment
- Metal shed

Evidence of Storm Water Pollution and its Source:
- None observed.

Identify and Assess Sufficiency of Existing BMPs:
- SW Dumpsters – **SUFFICIENT**
- Cardboard dumpster – S**UFFICIENT**
- Metal dumpster – **SUFFICIENT**
- Storm drain insert **– SUFFICIENT.**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks

List Deficiencies Noted in Facility Inspection Reports:
- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance 2013:
- No monitoring performed/required during 2013.

Non-storm Water Discharges:
- Wet-suit rinsing sink

ASTs:

- LC-1619-AST-13
- LC-1619-AST-01 500

Planned/Possible BMPs to be implemented as a result of the 2012 Evaluation:

- None planned.

Compliance:

- Site appears to be in compliance with SWPPP

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/20/2013

Building No.: Dogleg Piers and Quaywall

Facility Descriptions: Pier operations

Outfall(s): Sheet flow off piers & quay wall, OF 770

Map Sheets: 15 - 17

POC: N/A

Industrial Activity:
- SIC 4491 Marine Cargo Handling - Vessel Berthing and Pier Operations.

Personnel Interviewed:
- None interviewed

Piers and Quay Wall:
- Quay Wall: LSDs – USS Tortuga and USS Oak Hill
- Pier 56: Empty
- Pier 57: USNS Grasp
- Pier 58: Hugo
- Pier 59: Salvia

Outdoor Material Storage:
Dog Leg/Quay Wall
- Conex box
- Oil Boom
- Electronic boom stand
- Cylinders
- Miscellaneous materials
- Solid waste dumpsters (4)
- Scrap Metal Dumpster
- Large solid waste rolloff
- Cardboard dumpster
- Hoses to include CHT line
- Metal gangway, steps/platform
- AFFF tank
- Generators
- Contractor trailered tank (oily waste) with portable spill containment under trailer/tank
- EV Services trailered tank (oily waste). Hose end closed.

Evidence of Storm Water Pollution and its Source:
- None observed.

Identify and Assess Sufficiency of Existing BMPs:

- Pier area and long term docking BMPs listed in VPDES Permit VA0079928, Part I.B.7 – **SUFFICIENT** except that spill containment for EV Services tank/trailer needs to be reviewed.
- Cardboard dumpsters – **SUFFICIENT**
- Solid waste dumpster –**SUFFICIENT**
- Scrap metal dumpster – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:

- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:

- None planned

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Located along piers.

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:

- No monitoring performed/required during 2013.

Non-storm Water Discharges:

- None observed

ASTs:

- None observed

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None planned

Compliance:

- Site appears to be in compliance with SWPPP with possible exception noted above.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/20/2013

Facility Descriptions: BMU-2

Outfall(s): 760

Map Sheet: 9, 17, and 18

POC: BMU-2

Industrial Activity:
- Maintenance and support for shore operations.

Personnel Interviewed:

Buildings & Facilities:
- 3144 – Administration, maintenance & light repairs (OWS for trench drains with discharge to sanitary), armory
- 3145 – Storage
- Unnumbered small buildings
- Storage
- Armory
- Outdoor vehicle washracks (2) with OWS and discharge to sanitary

Outdoor Material Storage:
- Fenced drum storage area - secondary containment holding 55-gallon and 30-gallon containers
- SW dumpsters (2)
- Cardboard dumpster (1)
- Lights w/ generators
- Maintenance equipment
- Conex Boxes
- Gas cylinders
- Miscellaneous water tanks
- Tires
- Rubber pipes
- Miscellaneous metal storage
- Cylinders
- Wood Storage Boxes
- Generators
- LARCs
- Humvees
- Heavy equipment

Evidence of Storm Water Pollution and its Source:
- None observed

Identify and Assess Sufficiency of Existing BMPs:

- Concrete berm for POL – **SUFFICIENT**
- SW & Cardboard Dumpsters – **SUFFICIENT**
- Covered steel structure – **SUFFICIENT**
- Outdoor washrack w/ associated OWS – **SUFFICIENT**
- Inside maintenance performed w/ trench drains and OWS – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:

- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:

- None planned

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:

- No monitoring performed/required during 2013.

Non-storm Water Discharges:

- None observed.

ASTs:

- LC-3144-AST-05 (1000 gal used oil)

Planned/Possible BMPs to be implemented as a result of the 2010 Evaluation:

- None planned.

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard, H. Grayson

Date: Site Visit: 12/12/2013

Outfall(s): 801

Map Sheet: 21 and 22

POC: Sgt. Crossen

Facility Description: NMCRC (1, 2, and 7)

Personnel Interviewed: GUNRY SGT Joens

Industrial Activity:
Vehicle and AMTRAC maintenance, Outdoor washrack with OWS and discharge to sanitary

Buildings
- Building 1 – Administrative for Marine and Navy Reserve
- Building 2 – Storage (clothing, MRE)
- Building 7 - Vehicle and AMTRAC Maintenance

Outdoor Material Storage:
- Conex Boxes
- AMTRACs, Humvees
- Hazardous Material Storage Area
- Cylinders
- Two flammable material storage lockers

Evidence of Storm Water Pollution and its Source:
- No

Identify and Assess Sufficiency of Existing BMPs:
- Washrack w/ associated OWS. When in use valve diverts discharge to sanitary – **SUFFICIENT**
- Berm valve – **SUFFICIENT**
- Storm Drain inserts **– SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None previously planned.

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance in 2013:

- No monitoring performed/required.

ASTs:

- None

Planned/Possible BMPs to be implemented as a result of the 2012 Evaluation:

- None planned

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/30/13

Facility Descriptions: NEX Warehouse for vending machines and vending machine supplies (bottled drinks, coffee, snacks, ice cream)

Outfall(s): 001

Map Sheet: 30

POC: Carl Hollinger

Industrial Activity:
Warehouse/Storage

Personnel Interviewed:

Buildings:
121 - Warehouse is used to store bottles of soda, snacks, ice cream.

Outdoor Material Storage:
- Conex Boxes
- Wood Pallets
- Solid Waste Dumpsters

Evidence of Storm Water Pollution and its Source:
- NA

Identify and Assess Sufficiency of Existing BMPs:
- Truck Delivery and Supply Area - a trench drain discharges rain water to grassy swale prior to flowing to ditch that ultimately leads to OF 001. – **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None previously planned.

Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks

List Deficiencies Noted in Facility Inspection Reports:

- N/A

List Permit Non-Compliance Noted in 2013:

- No monitoring performed/required during 2013.

Non-storm Water Discharges:

- NA

ASTs:

- NA

Planned/Possible BMPs to be implemented as a result of the 2010 Evaluation:

- NA

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. Little

Date: Site visit: 12/12/2013

Facility Descriptions: CBMU-202

Outfall(s): 830

Map Sheet: 26 and 27

POC: NA

Industrial Activity:
- Vehicle Maintenance and Storage

Personnel Interviewed:
None

Buildings:
- 3613 – Storage for construction materials
- 3614 – Vehicle maintenance (trench drains with OWS and discharge to sanitary)
- 3617
- 3618 – Administrative and Storage

Outdoor Material Storage:
- Conex Boxes
- Miscellaneous Metals
- Dump Trucks
- Flat Bed Dump Trucks
- Heavy Equipment
- GOVs
- Flammable Material Storage Lockers (2)
- Clam Shells
- 2, 55-gallons drums of lube oil
- Solid Waste Dumpster
- Generators
- Gravel pile
- fencing

Evidence of Storm Water Pollution and its Source:
- None

Identify and Assess Sufficiency of Existing BMPs:
- Most of compound is crush & run with potential for sediment discharge in heavy rain. Storm drain inserts protect drop inlets in this area. In addition, a straw bale placed before the outlet of a swale on the south side of building 3614 restricts sediment release.

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:

- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT** provided sediment traps and straw bale are checked periodically and changed when needed.

Describe Status of BMPs Previously Planned:

- N/A

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:

- No monitoring performed/required.

Non-storm Water Discharges:

- N/A

ASTs:

- LC-3614-AST-01 500 gallon Diesel
- LC-3614-AST-02 250 gallon heating oil
- LC-3614-AST-11A 250 gallon gasoline
- LC-3614-AST-11B 250 gallon diesel
- LC-3614-AST-12 500 gallon used oil
- LC-3615-AST-02 500 gallon Used Oil

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None planned.

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and C. Camerino

Date: Site visit: 12/19/2013

Facility Descriptions: CBs - Vehicle Maintenance

Outfall(s): 778

Map Sheet: 9

POC:

Industrial Activity:
- Vehicle Maintenance and Repair

Personnel Interviewed:
None

Buildings:
- CB301 - Vehicle maintenance and repair
- CB302 – Vehicle maintenance and light repair
- CB205 – Small generator repair
- CB210 – Tire shop

Outdoor Material Storage:
- Conex Boxes
- Miscellaneous Metals
- Fork Lifts
- Cylinders
- Solid Waste Dumpster
- Hazmat lockers
- Humvees
- Heavy equipment
- Callimars (conex box mover)
- Fuel truck
- Mobile generators

Evidence of Storm Water Pollution and its Source:
- NA

Identify and Assess Sufficiency of Existing BMPs:
- Containment for fuel truck (concrete curb) - **SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:

- None.

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:

- No monitoring performed/required.

Non-storm Water Discharges:

- None

ASTs:

- LC-CB301-AST-01 250 gallon Used Oil (inside CB301)
- LC-CB301-AST-02 250 gallon used oil (inside CB301)

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None planned.

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. White

Date: Site visit: 12/12/2013

Facility Descriptions: Recycle Area

Outfall(s): OF 760 (after golf course pond and Lake 1)

Map Sheet: 18

POC: Peggy Moore (636-7169)

Industrial Activity:
Recycling

Personnel Interviewed:

Facilities:
- Concrete and paved surface West of 3661- metals sorting (steel, aluminum, copper, brass)
- Permanent tented structure West of 3661– used batteries, Flammable Storage Locker, empty drums, empty paper recycle containers, cardboard, brass shells from firing range

Outdoor Material Storage:
- Front End Loader
- Solid Waste Dumpsters
- Scrap Metal Dumpster
- Flammable Material Storage Lockers (2)
- Wood Pallets
- Multiple empty 55-gallon drums stored on side on outside rack
- Tire dumpsters and large tires

Evidence of Storm Water Pollution and its Source:
- Potential – see below

Identify and Assess Sufficiency of Existing BMPs:
- Gutter buddy along fence where recycle area discharges to drainage ditch to slow runoff and capture some sediment from site – **MIGHT BE SUFFICIENT, NEEDS REVIEW**
- Adsorbent cloth under drum storage rack to catch any oil drips – **SUFFICIENT,** but need sign reminding personnel to tightly close bung holes so drips don't saturate cloth.

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:
- None planned

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:

- No monitoring performed/required.

Non-storm Water Discharges:

- None

ASTs:

- NA

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- See comment above.

Compliance:

- Overall, site appears to be in compliance with SWPPP.

Inspectors: W. Bullard and R. White

Date: Site visit: 12/12/2013

Facility Descriptions: PWC Transportation

Outfall(s): OF 760

Map Sheet: 18

POC: Robert Bias

Industrial Activity:
- Minor vehicle maintenance, to include preventative maintenance and oil changes.

Personnel Interviewed:

Facilities:
- 3661 - Minor vehicle maintenance, to include preventative maintenance and oil changes.
- Outdoor Vehicle Washrack

Outdoor Material Storage:
- Bucket Trucks
- Fork Lifts
- Front End Loaders
- Semi/Tractor Trailers
- Crane
- Crane counter balances
- Cables
- Flammable Material Storage Locker
- Two wood sheds
- Two metal sheds
- Vehicle vacuum
- Wood Pallets
- Rubber dumpster
- Cylinders
- PolyPac for gasoline - SAA
- Portable Metal Stairs
- Compressors
- Conex Boxes
- Spill Kit
- Scissor Lift

Evidence of Storm Water Pollution and its Source:
- Evidence of some old spills

Identify and Assess Sufficiency of Existing BMPs:

- Vehicle maintenance is conducted inside building. – **SUFFICIENT**
- Outdoor Vehicle Washrack (OWS treatment with discharge to sanitary) **- SUFFICIENT**

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:

- Housekeeping: **SUFFICIENT**
- BMP Maintenance: **SUFFICIENT**

Describe Status of BMPs Previously Planned:

- None

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, granular absorbent and absorbent socks

List Deficiencies Noted in Facility Inspection Reports:

- Various facility inspections are performed at JEBLC on weekly, monthly and quarterly basis for all environmental media. Deficiencies and corrective actions are documented and tracked for all permits as part of the facility EMS. See the enclosure for deficiencies that had potential to affect stormwater.

List Permit Non-Compliance Noted in 2013:

- No monitoring performed/required

Non-storm Water Discharges:

- NA

ASTs:

- LC-3661-AST-04 (275 gallon Used Oil)

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None planned.

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard, R. Little

Date: Site visit: 12/12/2013

Facility Descriptions: Riverine Coastal Group

Outfall(s): OF 793

Map Sheet: 29

POC: LSC Mustin (462-2095)

Industrial Activity:
Boat Maintenance

Personnel Interviewed:
- NA

Buildings:
2002 – Covered boat storage facility. Maintenance also performed.

Outdoor Material Storage (Includes large crush & run yard):
- RHIV boats
- Fork Lifts
- Trucks
- Trailers
- Portable generators
- Conex boxes
- Humvees
- Wooden boxes
- Empty deployable fuel tanks
- Spill Kit
- Flam locker
- HW Satellite Area

Evidence of Storm Water Pollution and its Source:
- No

Identify and Assess Sufficiency of Existing BMPs:
- Stormwater LID swale around perimeter of yard

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- New facility: Need to add area to facility inspection schedule.
- BMP Maintenance: Storage boxes in LID swale and evidence of vehicle traffic there also. Need to educate command to keep vehicles, equipment, materials out of stormwater LID feature.

Describe Status of BMPs Previously Planned:

- See above.

Leaks or Spills and Inventory of Spill Equipment:

- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.
- Spill equipment: Shovel, adsorbent

List Deficiencies Noted in Facility Inspection Reports:

- Add to facility inspection schedule

List Permit Non-Compliance Noted in 2013:

- No monitoring performed/required.

Non-storm Water Discharges:

- NA

ASTs:

- None

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:

- None planned.

Compliance:

- Site appears to be in compliance with SWPPP.

Inspectors: W. Bullard, R. Little

Date: Site visit: 12/12/2013

Facility Descriptions: Riverine Coastal Group

Outfall(s): 808

Map Sheet: 14

POC: LSC Mustin

Industrial Activity:
Vehicle and boat maintenance

Personnel Interviewed:

Buildings: 1258 & new covered boat storage area

Outdoor Material Storage:
- Truck parking
- 500 gal used oil AST
- Chain
- Wood pallets
- Fork lift
- Conex boxes
- Portable generator
- Spill Kit

Evidence of Storm Water Pollution and its Source:
- No

Identify and Assess Sufficiency of Existing BMPs:
- Stormwater LID (infiltration) between 1258 and covered boat storage

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
- New facility: Need to add area to facility inspection schedule.
- BMP Maintenance: LID holding water.

Describe Status of BMPs Previously Planned:
- See above.

List Any Leaks or Spills and Inventory of Spill Equipment:
- Small spills routinely occurred at various sites on the installation in 2013. All spills were immediately addressed and reported in accordance with regulations and permit. Additional training to avoid recurrence was provided where appropriate. JEBLC tracks all spills and corrective action.

- Spill equipment: Shovel, absorbent

List Deficiencies Noted in Facility Inspection Reports:
- Add to facility inspection schedule

List Permit Non-Compliance Noted in 2013:
- No monitoring performed/required.

Non-storm Water Discharges:
- None

ASTs:
- 500 gal used oil

Planned/Possible BMPs to be implemented as a result of the 2013 Evaluation:
- None planned.

Compliance:
- Site appears to be in compliance with SWPPP.

Inspectors: Nikki Brown & Rick Little

Date: May 20, 2014

Building No.: 1088

Facility Description: SRI Heavy Equipment Maintenance Building

Outfall(s): 001

POC: Elwood Freeman

Industrial Activity:
Heavy Diesel Equipment Maintenance

Personnel Interviewed:
Elwood Freeman & Larry Doss

Outdoor Material Storage:
None observed

Evidence of Storm Water Pollution and its Source:
None observed

Identify and Assess Sufficiency of Existing BMPs:
Not applicable

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
Housekeeping–sufficient
BMP Maintenance–sufficient

Describe Status of BMPs Previously Planned:
None

List Any Leaks or Spills and Inventory of Spill Equipment:
Spills: none
Spill Equipment: none observed

List Deficiencies Noted in Facility Inspection Reports:
No deficiencies noted

Noncompliance since last site compliance evaluation:
None

Non-storm Water Discharges:
None observed

ASTs:
FS-1088-AST-01 500-gallon used oil

FS-1088-AST-02 165-gallon diesel

Planned BMPs:
None

Compliance:
In compliance

Additional Comments:
Heavy vehicle maintenance has been turned over to SRI and is no longer Northrop Grumman. SRI is in the process of moving into building 1103. Will plan on adding 1103 to 2015 SCEs if needed.

Inspectors: Nikki Brown & Rick Little

Date: May 20, 2014

Building No.: 810

Facility Description: FLTC Saltwater Annex ROWPU Maintenance Building

Outfall(s): 001

POC: Jim Wheeler

Industrial Activity:
SIC 3589: Reverse Osmosis Water Purification Units (ROWPU) maintenance

Personnel Interviewed:
Jim Wheeler

Outdoor Material Storage:
Pumps
Generators
2 GOV Flat beds
5 White Poly Tanks
Hoses (rubber)
(2) 3000 gal ROWPUs
(2) 600 gal ROWPUs
Flam locker
Corrosive locker
Oxidizer locker
Solid Waste Dumpster

Evidence of Storm Water Pollution and its Source:
None observed

Identify and Assess Sufficiency of Existing BMPs:
Freshwater rinsing maintenance of ROWPUs conducted using SOP–sufficient
Filter maintenance discharges are directed to HRSD using established SOP–sufficient
Use of Hazardous Material storage lockers–sufficient

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
Housekeeping: sufficient
BMP Maintenance: sufficient

Describe Status of BMPs Previously Planned:
None planned

List Any Leaks or Spills and Inventory of Spill Equipment:
Spills: none

Spill equipment: kept inside building

List Deficiencies Noted in Facility Inspection Reports:
None observed

Noncompliance since last site compliance evaluation:
None

Non-storm Water Discharges:
None observed

List Any Leaks or Spills and Inventory of Spill Equipment:
Spills: none
Spill Equipment: spill kits kept inside buildings

ASTs:
FS-810-AST-01 500-gallon used oil

Planned BMPs:
None

Compliance:
In compliance

Additional Comments:
None

Inspectors: Nikki Brown & Rick Little

Date: May 20, 2014

Building Nos.: 1108 and 1109

Facility Descriptions: Transportation and Maintenance

Outfall(s): 008

POC: SGT Thompson

Industrial Activity:
Heavy diesel equipment

Personnel Interviewed:
No personnel present.

Outdoor Material Storage:
Building 1108
Various transportation vehicles
Flam lockers
Garbage dumpster
POV parking

Building 1109
Secondary containment Drive-on ramps (2)

Evidence of Storm Water Pollution and its Source:
None observed

Identify and Assess Sufficiency of Existing BMPs:
Use of flammable materials storage locker–sufficient
Use of drip pans under vehicles–sufficient

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
Housekeeping: sufficient
BMP Maintenance: sufficient

Describe Status of BMPs Previously Planned:
None planned

List Any Leaks or Spills and Inventory of Spill Equipment:
Spills: none
Spill Equipment: spill kits kept inside buildings

List Deficiencies Noted in Facility Inspection Reports:
None observed

Noncompliance since last site compliance evaluation:
None

Non-storm Water Discharges:
None observed

ASTs:
FS-1108-AST-01 500-gallon used oil
FS-1108-AST-02 250-gallon diesel

Planned BMPs:
None

Compliance:
In compliance

Additional Comments:
None

Inspectors: Nikki Brown & Rick Little

Date: May 20, 2014

Building No.: 1103 and 1103A

Facility Description: Transportation and Maintenance

Outfall(s): 002

POC: Bldg. 1103-CW02 Hanson; Bldg. 1103A-Heather Lawrence

Industrial Activity:
Heavy diesel equipment maintenance
Vehicle wash rack

Personnel Interviewed:
No personnel present.

Outdoor Material Storage:
Building 1103
Various transportation vehicles (Trucks, Cranes, RTCHs, Humvees)
Flam lockers
Dumpster
POV parking

Building 1103A
None

Evidence of Storm Water Pollution and its Source:
None observed

Identify and Assess Sufficiency of Existing BMPs:
Hazmat lockers–sufficient
Wash rack instructions–sufficient
Drip pans under vehicles–sufficient

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
Housekeeping: sufficient
BMP Maintenance: sufficient

Describe Status of BMPs Previously Planned:
None planned

List Any Leaks or Spills and Inventory of Spill Equipment:
Spills: No spills reported.
Spill Equipment: spill kit contained within buildings

List Deficiencies Noted in Facility Inspection Reports:

None noted

Noncompliance since last site compliance evaluation:
None

Non-storm Water Discharges:
None observed

ASTs:
FS-1103-AST-01 500-gallon used oil
FS-1103-AST-02 250-gallon diesel

Planned BMPs:
None

Compliance:
In compliance

Additional Comments:
None

Inspectors: Nikki Brown & Rick Little

Date: May 20, 2014

Building No.: 951

Facility Description: Automotive Hobby Shop; GOV and POV maintenance

Outfall(s): 002

POC: N/A

Industrial Activity:
Facility is closed at this time.

Personnel Interviewed:
No personnel present.

Outdoor Material Storage:
None observed

Evidence of Storm Water Pollution and its Source:
None observed

Identify and Assess Sufficiency of Existing BMPs:
Hazmat lockers–sufficient
Trench drains plugged–sufficient

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
Housekeeping: sufficient
BMP Maintenance: sufficient

Describe Status of BMPs Previously Planned:
None planned

List Any Leaks or Spills and Inventory of Spill Equipment:
Spills: No spills reported.
Spill Equipment: spill kit contained within building

List Deficiencies Noted in Facility Inspection Reports:
None noted

Noncompliance since last site compliance evaluation:
None

Non-storm Water Discharges:
None observed

ASTs:

None observed

Planned BMPs:
None

Compliance:
In compliance

Additional Comments:
None

Inspectors: Nikki Brown & Rick Little

Date: May 20, 2014

Building No.: 819 and 821

Facility Description: EOD Two Compound

Outfall(s): N/A

POC: Paul Portugal

Industrial Activity: Training and operations, maintenance and rinsing of small boats

Personnel Interviewed: Paul Portugal

Outdoor Material Storage:
None observed

Evidence of Storm Water Pollution and its Source:
None observed

Identify and Assess Sufficiency of Existing BMPs:
Maintenance activities conducted indoors–sufficient
Boat rinsing activities conducted in a manner to prevent discharge of wastewater to State Waters when conducted outdoors–sufficient

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
Housekeeping: sufficient
BMP Maintenance: sufficient

Describe Status of BMPs Previously Planned:
None planned

List Any Leaks or Spills and Inventory of Spill Equipment:
Spills: none
Spill equipment: spills kits kept inside buildings

List Deficiencies Noted in Facility Inspection Reports:
N/A-Not a permit requirement to inspect this facility; inspected as part of annual site compliance evaluations to ensure activities being in a manner which does not result in discharges to State Waters.

Noncompliance since last site compliance evaluation:
N/A-facility not inspected in previous site compliance evaluations

Non-storm Water Discharges:
None observed

ASTs:
FS-AST-821-01-4000-gallon diesel

Planned BMPs:
None

Compliance:
In compliance

Additional Comments:
None

Inspectors: Nikki Brown & Rick Little

Date: May 20, 2014

Building No.: Swim Beach and Omaha Beach Sites

Facility Description: FLTC Saltwater Annex ROWPU Instruction Locations-majority of training activities now occur at Swim Beach site which opened Spring of 2013

Outfall(s): N/A-No discharge to State Waters

POC: Jim Wheeler

Industrial Activity:
SIC 3589: Reverse Osmosis Water Purification Units (ROWPU) maintenance

Personnel Interviewed:
Jim Wheeler

Outdoor Material Storage:
None observed

Evidence of Storm Water Pollution and its Source:
None observed

Identify and Assess Sufficiency of Existing BMPs:
Activities conducted in a manner to prevent discharge of wastewater to State Waters–sufficient

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
Housekeeping: sufficient
BMP Maintenance: sufficient

Describe Status of BMPs Previously Planned:
None planned

List Any Leaks or Spills and Inventory of Spill Equipment:
Spills: none
Spill equipment: spill kits kept inside building

List Deficiencies Noted in Facility Inspection Reports:
N/A-Not a permit requirement to inspect this facility; inspected as part of annual site compliance evaluations to ensure activities being conducted in accordance to SOP which prohibit discharges to State Waters.

Noncompliance since last site compliance evaluation:
N/A-facility not inspected in previous site compliance evaluations

Non-storm Water Discharges:
None observed

ASTs:
None observed

Planned BMPs:
None

Compliance:
In compliance

Additional Comments:
None

Inspectors: Nikki Brown & Rick Little

Date: May 20, 2014

Building No.: 830

Facility Description: EOD Two Compound

Outfall(s): N/A-No discharge to State Waters

POC: Paul Portugal

Industrial Activity:
Small boat maintenance

Personnel Interviewed:
No personnel present.

Outdoor Material Storage:
No outdoor material storage
Water tank for boat engine testing

Evidence of Storm Water Pollution and its Source:
None observed

Identify and Assess Sufficiency of Existing BMPs:
Activities conducted in a manner to prevent discharge of wastewater to State Waters–sufficient

Identify and Assess Sufficiency of Housekeeping Efforts & BMP Maintenance:
Housekeeping: sufficient
BMP Maintenance: sufficient

Describe Status of BMPs Previously Planned:
None planned

List Any Leaks or Spills and Inventory of Spill Equipment:
Spills: none
Spill equipment: spill kits kept inside building

List Deficiencies Noted in Facility Inspection Reports:
N/A-Not a permit requirement to inspect this facility; inspected as part of annual site compliance evaluations to ensure activities being in a manner which does not result in discharges to State Waters.

Noncompliance since last site compliance evaluation:
N/A-facility not inspected in previous site compliance evaluations

Non-storm Water Discharges:
None observed

ASTs:
FS-830-AST-01 250 gal used oil

Planned BMPs:
None

Compliance:
In compliance

Additional Comments:
None

Appendix E – Navy Spill Response and Reporting SOP; Hampton Roads

DOCUMENT NO.:

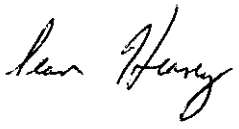
SOP-Spills-Regional-01

TITLE:

Hampton Roads Naval Installation Spill Reporting and Documentation Standard Operating Procedure

CONTENTS

DOCUMENT OWNER: NAVFAC MIDLANT Spill Program Manager	AUTHORIZED BY: NAVFAC MIDLANT EV Compliance Director

REV. NO.	EFFECTIVE DATE	DESCRIPTION OF REVISION
1	9/10/2010	ORIGINAL ISSUE
2	3/14/2011	REVISION
3	4/28/2011	ADDED EMS COVER SHEET
4	6/8/2011	REVISION
5	8/23/2011	REVISION
6	1/3/2012	REVISION
7	3/1/2012	REVISION
8	8/7/2012	REVISION
9	9/5/2012	REVISION
10	9/13/2012	APPROVAL SIGNATURE: Sean Heaney, PE-EV1- 

Form EMS 1 (Revision A)

HAMPTON ROADS NAVAL INSTALLATION
SPILL REPORTING AND DOCUMENTATION
STANDARD OPERATING PROCEDURE

1) Purpose:

This Standard Operating Procedure (SOP) was created by NAVFAC MIDLANT Environmental and provides the reporting and documentation actions that must be taken in response to a spill/ release of oil, sewage, hazardous, or non-hazardous substance (solid or liquid) from a building, vessel, aircraft, etc. at any Hampton Roads Naval installation or annex. In this SOP, the term "spill" also includes gaseous releases of hazardous substances to the air, but does not pertain to radiological or infectious waste incidents as outlined in CNRMA Regional Instruction 5090.3.

This SOP will be updated August 7, 2013 by NAVFAC MIDLANT Environmental. For updates contact the Hampton Roads Spill Program Manager at 757-341-0390.

2) References:

(a) COMNAVREG MIDLANT INST 5090.3, Prevention, Reporting, Response, and Cleanup of Oil and Hazardous Substance spills for Hampton Roads Installations. 30 Apr 2004.
(b) OPNAVINST 5090.1C- Navy Environmental and Natural Resources Program Manual. 30 Oct 2007.
(c) OPNAVINST 3100.6H, Special Incident Reporting (OPREP 3, Navy Blue and Unit SITREP) Procedures; (NOTAL). (date unknown)
(d) COMNAVREGMIDLANT/SOP (ADMIN) HRINST 5400.1A DRAFT SUPGROUP 5090 REVISION. DRAFT SEP 2010
(e) COMNAVREG MIDLANT INST 5090.1, Response to Major Oil and Hazardous Substance Incidents within Commander, Navy Region, Mid-Atlantic Area of Responsibility. 25 Oct 2001.

3) Procedures and Responsibilities:

The following section outlines the responsibilities of the Responsible Party and/or the party who discovers the spill. Subsequent sections outline the responsibilities of Environmental staff.
The responsible party is the activity/ command that caused the spill.

a) <u>Responsible Party's Duties</u>

i) When a release is detected, secure all activities related to the release.
ii) Determine the source of the release and secure if safe to do so.
iii) If possible and safe to do so, prevent spills from entering storm drains or waterways. This can be accomplished by covering storm drains or pier drains or by diverting the spill using dikes or man-made berms.
iv) **Immediately** following (**or during**) initial spill response actions, the spill must be reported to the Emergency Communications Center (ECC), or applicable Emergency Service by the Responsible Party (RP) or the party that discovered the spill. **Contact information for each installation is listed in Table 1.**

Note: The ECC contacts the base Fire Department, Command Duty Officer (CDO) or General Duty Supervisor (after hours), and Base Environmental (EV). If required, the

National Response Center (NRC) and Navy On-Scene Coordinator (NOSC) are also contacted.

Responsible Party must immediately report the spill to the ECC in the following Instances:

(1) If the spill was a result of any operation conducted on base (including military personnel, contractors, tenants, civilians, etc.) outside or inside of a building and has reached utility drains or the environment (air, land, water, pavement) or provides a significant threat to reach utility drains or the environment, or is a threat to human health.

(2) If the spill is greater than or equal to 1 gallon and is contained within a building (i.e., has not entered utility drains or has not escaped the building footprint).

v) **Navy Message**- The Responsible Party or reporting party (if responsible party has not been determined) has 24 hours to generate a Navy Spill Message if any the following occurs per **Reference (b)**:

(1) The NRC or any state or local authority was contacted by the ECC or EV.

(2) Any discharge of oil has reached the water or storm drain.

(3) Any oil or HS spill that may endanger critical water areas, has the potential to generate public concern, become the focus of an enforcement action, or pose a threat to public health or welfare that warrants an OPREP-3 special incident report as per **Reference (c).**

(4) Sewage spills or other pollutants which endanger critical water areas, have the potential to generate public concern, become the focus of enforcement action, or pose a threat to public health or welfare shall be reported by OPREP-3 NAVY BLUE or OPREP-3 NAVY UNIT SITREP in accordance with **Reference (c)**. Spills of oil and hazardous substances shall be reported in accordance with the requirements in **Reference (b)** Chapter 12, using formats in Appendices H or I. Additional addresses outlined in **Reference (d)** are also required on all spill messages.

(5) If original spill information differs as per **Reference (b)** 12-5.4b or if spilled amount differs by more than 50% of original Message, then an updated Message must be generated.

The following section outlines the duties of Environmental personnel:

b) **<u>EV Responsibilities</u>**

i) Once release (or threat of a release) is determined, ECC is immediately contacted by the Responsible Party or discoverer of spill. If spill is discovered by environmental staff, the environmental staff member places the notification call to ECC. If EV was contacted in lieu of ECC, the person discovering the spill will be directed to contact ECC with the pertinent information.

ii) Once an Environmental Protection Specialist (EPS) receives notification of a spill from ECC the EPS will contact the caller who made the spill report and/or reports to the scene of the spill. If needed, CDO and NOSC (if applicable) also respond to spill scene.

iii) EPS, in conjunction with CDO, conducts preliminary investigation as to the extent and cause of the spill. When appropriate, Hampton Roads Spill Manager (SM) along with Installation Environmental Program Manager (IEPM) conducts a more in-depth investigation.

iv) Using the acquired spill information, the EPS determines the reporting and documentation

requirements for the spill utilizing the matrix presented later in this SOP. An explanation/discussion of the reporting requirements and documentation is listed in the matrix **(Attachment 1)**.

v) EPS notifies SM of all reportable spills and any hazardous materials spills **(see Attachment 1)**.

vi) EPS notifies the state/local regulatory authorities and the applicable installation Media Manager(s) (MM). If the reporting/notification requirements are unclear, EPS is to contact the SM and together they will ensure each regulatory agency's reporting requirements are being met. The proper communication channels will be followed to ensure the various MMs fulfill additional regulatory reporting requirements not identified in the matrix below.

vii) EPS provides on-site guidance for spill clean-up when necessary. EPS, CDO, or a General Duty Foreman determines if additional assistance from Environmental Services or other resources are needed to clean up the spill. CDO or Duty Foreman contacts the Environmental Service Desk as needed (757-341-0412). The Service Desk dispatches NAVFAC Oil Recovery or Hazmat personnel, as appropriate. If oil spill is >100 gallons and NOSC is not on-site or was obviously not contacted by the ECC, the EPS or CDO should contact the NOSC immediately at 757-636-4378.

viii) Upon commencement of any oil recovery activities, Oil Recovery will supply an initial incident and cost logistics report to the Oil Recovery Commodity Manager as soon as practicable or within six hours of discovery of spill, if feasible. The Commodity Manager will then supply information to the Installation Environmental Program Manager (IEPM) and SM as soon as practicable. This initial report may include such summarized information as: spill discovery timeline, estimated volume spilled, any completed and ongoing recovery operations, and estimated clean-up costs to date. During ongoing recovery efforts, a daily summary will also be provided at the end of each day with updated/additional information. At the conclusion of the recovery activities, a final spill summary will be provided (through the chain of command, as noted), which shall contain the final amount of recovered product, final clean-up costs, and any updated or additional observed information. ***CNRMA Hazardous Waste disposal JON shall NOT be used for spill clean-up billing.**

ix) If the spill is reportable, EPS informs the RP of their obligation to generate a Navy Spill Message in proper format within 24 hours (see Message Formats in Responsible Party's Duties). In the event that the RP cannot be determined, EPS informs the CDO or Pier SOPA **(Reference a)** of their responsibility to submit the Navy Spill Message. EPS will communicate to the Message generator the estimated clean-up costs and recovered volume (if available) so the Message will be as complete as possible. If specifics are unknown, the initial Message must not be delayed and an updated Message may be released as additional information becomes available.

x) IEPD, EPS, and SM should follow up with CDO or Pier SOPA to ensure they have released initial Navy Message within 24 hours of discovery. Installation EV staff will inform RP to use proper message format. Additionally, it is the IEPM's responsibility to inform the Message author if an updated Message is required. If original spill information differs as per **(Reference b)** or if spilled amount differs by more than 50% of original Message, then an updated Message must be generated.

xi) EPS is to make initial notifications to appropriate regulators (except HRSD) as per the agency's preferred reporting method within 24 hours of the discovery of the spill. Initial notifications should include other agency incident numbers (such as NRC numbers) for cross-referencing by the regulators. See **Spill Reporting** section for important reporting procedures.

xii) EPS must draft the DEQ 5-day spill report and submit to the IEPM for review, finalization, signatures, and distribution to the appropriate regulatory agencies within by the established deadline. Impacted MM for the installation where the spill occurred is responsible for all

communication with HRSD and for follow-up regulatory reporting regarding releases to the sanitary sewer system.

xiii) Pollution Prevention/Emergency Planning and Community Right-to-Know Act (EPCRA) program manager (PM) is responsible for providing support to the installation environmental staff for reportable quantity (RQ) calculations and necessary EPCRA and LEPC reporting. Any correspondence of this nature should be forwarded to the SM and P2 EPCRA program manager.

xiv) SM and MMs will continue regulatory communications as appropriate and provide updated information when/if it becomes available.

xv) If regulatory enforcement action is imposed, SM and MMs will comply with communication requirements.

xvi) EPS files all spill documents together in the appropriate reportable or non-reportable spills folder.

Table 1			
INSTALLATION	**Emergency Contact**	**CDO**	**Environmental**
NWS Yorktown Cheatham Annex Yorktown Fuels	**757-887-4911** (ECC)	757-268-6250	757-887-4086 or 757-887-4881 or 757-636-4494 or 757-887-4095
Naval Air Station Oceana Dam Neck Annex Naval Auxiliary Landing Field Fentress	**911** (ECC)	757-433-2366	757-433-3435 or 757-433-3437 or 757-433-3439 757-433-2131 after hours: 757-328-4673 or 757-943-0991
Dare County Bombing Range	**911** (Local Emergency Services)	757-433-2366	757-421-8114 757-433-3435 or 757-433-3437 or 757-433-2131 after hours: 757-636-4256 or 757-943-0991
Defense Fuel Support Point Craney Island (see DFSP Craney Island's 'Red Plan')	**757-396-3333** (NNSY ECC)	757-322-2365	757-635-5740 or 757-341-0523
Joint Expeditionary Base Little Creek	**757-462-4444** (ECC)	757-462-7385 or 757-438-3930	757-462-5350 or 757-462-5361 or 757-462-5355 757-462-5356
Joint Expeditionary Base Fort Story	**757-422-7141** (ECC)	757-462-7385or 757-438-3930	757-422-7344 ext 225 or 757-462-5353 or 757-462-5361
Naval Station Norfolk	**757-444-3333** (ECC)	757-438-3860	757-341-0523 or 757-341-0516
Naval Support Activity Hampton Roads	**757-444-3333** (ECC)	757-438-3402	757-836-1862
Norfolk Naval Shipyard St. Juliens Creek Annex Scott Center Annex Southgate Annex	**757-396-3333** (NNSY ECC)	757-396-3222	757-396-8270
St. Helena Annex	**911** (Local Emergency Services)	757-396-3222	757-396-8270
Naval Support Activity Northwest	**911** (Chesapeake Emergency Services)	757-438-3503	757-421-8114 or 757-650-7286 after hours: 757-636-4256 or 757-943-0991
ROTHR New Kent	**757-887-4911** (ECC)	757-268-6250	757-887-4086 or 757-887-4881
Naval Medical Center Portsmouth	**757-396-3333**	757-396-3222	757-396-8270

Attachment 1

REPORTING/DOCUMENTATION MATRIX

Material Spilled: Sewage/Grey-Water				
Spill Caused By	Area Affected	Volume Spilled	EV Reporting Requirements	Navy Documentation
All Cases	State Waters Storm Drains	Any Quantity	DEQ Reporting DCR Reporting VDH Reporting	Navy Message Logbook Spill Folder
All Cases	Land	≥25 Gallons	DEQ Reporting DCR Reporting VDH Reporting	Navy Message Logbook Spill Folder
All Cases	Land	< 25 Gallons	None	Logbook Spill Folder
Material Spilled: Oil				
Spill Caused By	Area Affected	Volume Spilled	EV Reporting Requirements	Navy Documentation
All Cases	State Waters Storm Drains	Any Quantity	DEQ Reporting DCR Reporting NRC Reporting	Navy Message Logbook Spill Folder
POV	Land	<25 Gallons	None	None
Navy	Land	<25 Gallons	None	Navy Message Logbook Spill Folder
All Cases	Land	≥25 Gallons	DEQ Reporting DCR Reporting NRC Reporting	Navy Message Logbook Spill Folder
Note: All oil spills greater than 100 gallons require Navy On-Scene Coordinator notification.				
Air Releases				
Spill Caused By	Area Affected	Volume Spilled	EV Reporting Requirements	Navy Documentation
Air Releases of Refrigerants or Halons	Air	Any Quantity	Air Program Manager	Logbook
Air Releases of Ammonia	Air	Any Quantity	Air Program Manager & EPCRA Manager	Logbook
Air Releases of Hazardous Substance	Air	≥Reportable Quantity	Air Program Manager & EPCRA Program Manager	Logbook
Excess Air Emissions	Air	1 Hour or More	DEQ Air Manager	Logbook

Attachment 1

Material Spilled: AFFF				
Spill Caused By	Area Affected	Volume Spilled	EV Reporting Requirements	Navy Documentation
All Cases	State Waters Storm Drains	Any Quantity	DEQ Reporting DCR Reporting	Navy Message Logbook Spill Folder
All Cases	Sanitary Sewer	Any Quantity	Water Program Manager (WPM) HRSD (reporting by WPM)	Navy Message Logbook Spill Folder
All Cases	Land	Any Quantity	DEQ Reporting	Navy Message Logbook Spill Folder

Material spilled : Hazardous Substance/Hazardous Waste				
Spill Caused By	Area Affected	Volume Spilled	EV Reporting Requirements	Navy Documentation
All Cases	State Waters Storm Drains	Any Quantity	DEQ Reporting DCR Reporting NRC Reporting NOSC	Navy Message Logbook Spill Folder
All Cases	Sanitary Sewer	Any Quantity	Water Program Manager HRSD	Navy Message Logbook Spill Folder
All Cases	Land	≥Reportable Quantity (for spilled substance)	DEQ Reporting DCR Reporting NRC Reporting LEPC NOSC	Navy Message Logbook Spill Folder
All Cases	Land	<Reportable Quantity (for spilled substance)	Environmental	Logbook Spill Folder
Hazardous Waste	All Cases	Any Quantity	HW Media Manager (DEQ Reporting) *****If ≥ Reportable Quantity: DCR Reporting NRC Reporting	Navy Message Logbook Spill Folder
CERCLA Haz Substances, EPCRA Toxic Chemicals, and EPCRA Extremely Haz Substances	All Cases	≥Reportable Quantity***** (for spilled substance)	DEQ Reporting DCR Reporting NRC Reporting LEPC NREMD NOSC	Navy Message Logbook Spill Folder

Note 1: DEQ Reporting = 24 hour initial notification and follow up 5-Day Letter
Note 2: DCR reporting is only necessary for installations covered under the regional MS4 Phase II Permit
Note 3: NRC reporting must occur **immediately** upon discovery of spill

Attachment 1

***Reportable Quantity (RQ)**

The reportable quantity is the federally determined amount of a hazardous substance that is used to determine when spills have to be reported; any spill involving an amount of a hazardous substance greater than or equal to its reportable quantity value must be reported. The P2-EPCRA PM is responsible for providing support to the installation environmental staff for RQ calculations and necessary EPCRA and LEPC reporting. Any correspondence of this nature should be forwarded to the SM and P2-EPCRA PM.

Navy Message

EPS is to notify Responsible Party of their duty to generate a Navy Message regarding the spill incident in proper format within 24 hours (see Message Formats in Responsible Party's Duties). In the event that the Responsible Party can not be determined, EPS informs the CDO or Pier SOPA (as applicable) of their responsibility to deliver the Message. EPS will communicate the estimated clean-up costs and recovered volume (if available) so the Message will be complete. If specifics are unknown, the initial Message must not be delayed and an updated Message may be released as additional information becomes available.

IEPM and SM are to ensure that the responsible party releases initial Navy Message within 24 hours of discovery of spill and in proper format. Additionally, it is their responsibility to inform the Message author if an updated Message is required. If original spill information differs significantly (i.e., spilled amount differs by more than 50% of original Message), then an updated Message must be submitted.

A copy of the Navy Message should be made for environmental recordkeeping and to ensure that the correct format has been used per **References (b)** and **(d)**. Also see previous section on Navy Messaging.

Spill Reporting

EPS is to provide spill reporting to Virginia Department of Environmental Quality (DEQ) and Virginia Department of Conservation and Recreation (DCR). Spill reporting includes both an initial report of the spill within 24 hours of spill discovery (which presents awareness of the spill) and a 5-day Spill Letter (which documents specific details).

Initial spill report can be made within 24 hours of the spill discovery on the DEQ Reporting Website. Once the report is submitted, a WEB Reference ID Number (not the same as an Incident Report number) will be populated and must be recorded as proof of notification (recommend printing this page to an electronic file). Following incident submittal, an Incident Report number (IR#) will be generated by the DEQ . The IR# or Web Reference number should be used in all remaining correspondence pertaining to that incident.

In certain situations for oil spills <150 gallons, but >25 gallons the DEQ may not generate an IR# and may not require a follow-up 5-day Spill Letter. In this instance, EPS is to keep a hardcopy of the ruling or request something in writing for EV documentation.

If a 5-Day Spill Letter is required, it must be submitted within 5 business days of discovery of the spill (weekends and holidays falling on weekdays are not business days). These letters should contain a brief explanation of the following:

→Date of Release/Discovery	→Quantity Released
→Time of Release/Discovery	→Quantity Recovered
→Location	→Receiving Waterway
→Substance Released	→Cause of Release
→NRC # (if applicable)	→Cleanup Actions Taken

Attachment 1

The preferred method of delivery to the DEQ is electronic. An email attachment of the document to troprep@deq.virginia.gov will suffice and no paper copy is required for follow-up. Original signatures are not required by DEQ, although digital signatures are to be used at the discretion of NAVFAC. The point of contact (POC) information for state regulatory spill reporting is shown below:

ARTICLE I. Agency	**Article II. Contact Name:**	**Article III. Contact Phone**	**Article IV. Contact Email:**
DEQ	•Website	---	http://www.deq.virginia.gov/prep_ext/
	•Email Reporting	---	troprep@deq.virginia.gov
	•John Settle (POC)	757-518-2179	john.settle@deq.virginia.gov
	•Tammy Snell (POC)	757-518-2177	tammy.snell@deq.virginia.gov
DCR	Doug Fritz	804-371-7330	Doug.Fritz@dcr.virginia.gov
VDH	•Website		http://www.vdh.virginia.gov/lhd/
	•Office of Drinking Water	757-683-2000	WASTEWATER http://www.deq.virginia.gov/wastewater/ reportingspills.html
	•Div. of Shellfish Sanitation	757-683-2700	

Note: This contact information is subject to change at any time, and should be updated as needed.

Sewage Reporting-Virginia Department of Health

When reporting sewage spills to VDH, EPS is to contact the Division of Shellfish Sanitation by telephone. DEQ makes the remaining contacts.

National Response Center (NRC)

The NRC is the federal agency that collects information on oil spills that enter waterways and storm drains. The NRC must be notified immediately upon discovery of spill by phone:
1-800-424-8802

The ECC will report all applicable spills to the NRC prior to sending EV a spill report.

Each spill that is reported to the NRC is assigned a unique NRC spill number; this NRC number is recorded on the spill notification form that the ECC will fax to EV. The presence of this number can therefore be used as a confirmation that the NRC has received a spill report. **This number should also be noted in the initial 24-hour spill report to the DEQ as well as the Navy Spill Message**. If the NRC spill number is not present, the EPS is to contact the ECC to verify if the NRC was notified. If they have not been notified, EPS should ensure that the NRC is notified immediately.

Logbook

A hand-written spill logbook is kept at each installation to quickly reference spills and to ensure all necessary actions are taken for each spill. This logbook is used to track both reportable and non-reportable spills. The EPS is to enter spill information into the logbook as it is obtained so that the logbook can be used as a checklist to ensure that all necessary spill response actions are taken for all spills.

Local Emergency Planning Committees (LEPCs)

LEPCs are groups of local officials from various disciplines formed to enforce the requirements of EPCRA, or the Emergency Planning and Community Right-to-Know Act. LEPC develop local emergency response plans based on local activities, business, etc.

Appendix F – Stormwater BMP Inventory and Reporting Database

POST CONSTRUCTION BMPs

9/29/2014

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
CX-CAD506-BR-01	parking lot southeast of building, east of Roland Road	northeast of parking lot, center	operator	Category E: Filtration Practices	Bioretention Areas	1 of 1	1.15			YO68	020801070203	Penniman Lake	yes	37.280400	-76.611884	51199	00/2010	2/21/2014	UNSAT	No underdrain included in design. BMP currently needs maintenance to address clogging issues; design may not have used proper soil / media to provide adequate drainage. Provided model efficiencies are for Bioretention, A/B soils, no underdrain but may not be representative of BMP's current performance.	201402: no plants remain, needs repair
CX-CAD506-SW-01	parking lot southeast of building, east of Roland Road	northeast of parking lot, north of bioretention	operator	Category E: Filtration Practices	Swale	1 of 2	0.57			YO68	020801070203	Penniman Lake	yes	37.280526	-76.612080	51199	00/2010	2/21/2014	UNSAT		201402: no plants remain, needs repair
CX-CAD506-SW-02	parking lot southeast of building, east of Roland Road	northeast of parking lot, south of bioretention	operator	Category E: Filtration Practices	Swale	2 of 2	0.57			YO68	020801070203	Penniman Lake	yes	37.280198	-76.611868	51199	00/2010	2/21/2014	UNSAT		201402: no plants remain, needs repair
CX-CAD618-EDB-01	(P034) Cargo Training Facility	northeast of building, next to parking lot, in front of main entrance	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 3	1.10			YO68	020801070203	Penniman Lake	yes	37.281252	-76.602186	51199	04/2011	6/4/2014	SAT	(Drawings reference this as BMP 2A) Drawings (1, 2A, 2B, 3 & 4) and calcs (1A, 1B, 2, 3) use different names for BMPs in series. Design includes 5 ponds total, calcs reference only 4. Individual drainage areas from calcs are: DA 1A - 1.72 ac, DA 1B - 0.48 ac, DA 2 - 1.23 ac. DA 3 - 0.71 ac. Provided model efficiencies for "Dry Extended Detention Ponds". Basin 1, 2A and 2B are connected by RCP and drain to the outfall. BMP 4 will receive drainage from a swale on the west side of the building and will be routed to BMP 3 before being carried to the outfall. 2A and 2B will receive drainage from the parking lot that is pretreated by a BaySaver HDS.	
CX-CAD618-EDB-02	(P034) Cargo Training Facility	north of building, next to parking lot	operator	Category C: Dry Extended Detention	Extended Detention Basin	2 of 3	1.10			YO68	020801070203	Penniman Lake	yes	37.281448	-76.602481	51199	04/2011	6/4/2014	SAT	(Drawings reference this as BMP 2B) Drawings (1, 2A, 2B, 3 & 4) and calcs (1A, 1B, 2, 3) use different names for BMPs in series. Design includes 5 ponds total, calcs reference only 4. Individual drainage areas from calcs are: DA 1A - 1.72 ac, DA 1B - 0.48 ac, DA 2 - 1.23 ac. DA 3 - 0.71 ac. Provided model efficiencies for "Dry Extended Detention Ponds". Basin 1, 2A and 2B are connected by RCP and drain to the outfall. BMP 4 will receive drainage from a swale on the west side of the building and will be routed to BMP 3 before being carried to the outfall. 2A and 2B will receive drainage from the parking lot that is pretreated by a BaySaver HDS.	
CX-CAD618-EDB-03	(P034) Cargo Training Facility	west corner of building, by dumpster enclosure	operator	Category C: Dry Extended Detention	Extended Detention Basin	3 of 3	1.23			YO68	020801070203	Penniman Lake	yes	37.280862	-76.603206	51199	04/2011	6/4/2014	SAT	(Drawings reference this as BMP 4) Drawings (1, 2A, 2B, 3 & 4) and calcs (1A, 1B, 2, 3) use different names for BMPs in series. Design includes 5 ponds total, calcs reference only 4. Individual drainage areas from calcs are: DA 1A - 1.72 ac, DA 1B - 0.48 ac, DA 2 - 1.23 ac. DA 3 - 0.71 ac. Provided model efficiencies for "Dry Extended Detention Ponds". Basin 1, 2A and 2B are connected by RCP and drain to the outfall. BMP 4 will receive drainage from a swale on the west side of the building and will be routed to BMP 3 before being carried to the outfall. 2A and 2B will receive drainage from the parking lot that is pretreated by a BaySaver HDS.	
CX-CAD618-HDS-01	(P034) Cargo Training Facility	northeast of building, on sidewalk between EDB-01 & parking lot	operator	Category H: Street Sweeping, Catch Basin Inserts	Hydrodynamic Structures	1 of 1	0.71			YO68	020801070203	Penniman Lake	yes	37.281399	-76.602135	51199	04/2011	6/4/2014	SAT / Notes	Baysaver Separator - unit has been installed within curb inlet/catch basin in parking lot. Unit will receive drainage from both parking lot curb inlets. Provided model efficiencies represent "Dry Detention Ponds and Hydrodynamic Structures". BaySaver design pollutant removal is not addressed in the available stormwater calcs.	201406: needs servicing
CX-CAD618-IB-01	(P034) Cargo Training Facility	east of building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 2	1.72			YO68	020801070203	Penniman Lake	yes	37.280865	-76.601913	51199	04/2011	6/4/2014	SAT	(Drawings reference this as BMP 1) Available design drawings distinguish a portion of BMP #1 and all of BMP #3 as "infiltration basins" with substaintial backfill layer of select material (sand). Design cacls only show pollutant removal information for four "detention basins" and do not reference infiltration practices. This entry represents the apparent infiltration basin at the bottom of BMP 1. Model removal efficiencies represent "Infiltration Practices w/ sand, veg.".	
CX-CAD618-IB-02	(P034) Cargo Training Facility	northwest of building, northeast of EDB-04	operator	Category E: Filtering Practices	Infiltration Basin	2 of 2	0.71			YO68	020801070203	Penniman Lake	yes	37.281015	-76.603023	51199	04/2011	6/4/2014	SAT / Notes	(Drawings reference this as BMP 3) Available design drawings distinguish a portion of BMP #1 and all of BMP #3 as "infiltration basins" with substaintial backfill layer of select material (sand). Design cacls only show pollutant removal information for four "detention basins" and do not reference infiltration practices. This entry represents the apparent infiltration basin at the bottom of BMP 3. Model removal efficiencies represent "Infiltration Practices w/ sand, veg.".	201406: some erosion at outlet of 6" pvc at south corner of bmp, needs some stone placed
CX-CAD622-BR-01	(P743) Cargo Logistics Training Complex (Logistics Building)	southeast of building, southwest of BR-02	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2				YO68	020801070203	Penniman Lake	yes	37.281837	-76.600828	51199	10/2013	6/4/2014	SAT		
CX-CAD622-BR-02	(P743) Cargo Logistics Training Complex (Logistics Building)	southeast of building, northeast of BR-01	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2				YO68	020801070203	Penniman Lake	yes	37.281926	-76.600646	51199	10/2013	6/4/2014	SAT		
CX-CAD623-BR-01	(P743) Cargo Logistics Training Complex (Vehicle Maintenance Building)	northwest of building, across Trailer Road	operator	Category E: Filtering Practices	Bioretention Areas	1 of 1				YO68	020801070203	Penniman Lake	yes	37.283145	-76.601273	51199	10/2013	6/4/2014	SAT / Notes		201406: will need maintenance soon…
CX-CAD626-BR-01	(P743) Cargo Logistics Training Complex (Mock Warehouse)	northeast of building, along Roland Road	operator	Category E: Filtering Practices	Bioretention Areas	1 of 1				YO68	020801070203	Penniman Lake	yes	37.278779	-76.612003	51199	10/2013	6/4/2014	SAT / Notes		201406: sides on northeast & southwest could use further stabilization
CX-CAD628-BR-01	(P743) Cargo Logistics Training Complex (Mock Cargo Hold Trainer)	northeast of building, across Roland Road	operator	Category E: Filtering Practices	Bioretention Areas	1 of 1				YO68	020801070203	Penniman Lake	yes	37.278427	-76.611558	51199	10/2013	6/4/2014	N/A		201406: bmp not found where indicated on drawings…
CX-RV-DW-01	RV Park and Campground	corners of buildings, in front of downspouts	operator	Group E: Filtering Practices	Dry Wells	80 (4 for each of sixteen cottages, 16 for the comfort station)	0.61			YO67	020801070203	Cheatham Pond	yes	36.908372	-76.162629	51199	10/2011	6/4/2014	SAT	These BMP's are small infiltration pits or "dry wells" that receive runoff from building rooftops. Drainage area represents the total area treated by approx. 80 small infiltration BMPs. Provided model efficiencies are based on infiltration practices w/ sand, veg. (sand layer at the bottom of trench cross-section shown in detail) Could also be considered a Category G: Impervious Surface Reduction; 'disconnection of rooftop runoff'.	201406: many of the dry wells are becoming covered with grass…
CX-RV-IT-01	RV Park and Campground	off Loop Road southwest, between rv sites 8 & 13	operator	Category E: Filtering Practices	Infiltration Trench	1 of 2	3.93			YO67	020801070203	Cheatham Pond	yes	37.290805	-76.615404	51199	10/2011	6/4/2014	SAT	According to BMP detail and site visit, these IT's are constructed underground and observation wells will be used to monitor performance / maintenance needs. Provided model efficiencies are based on infiltration practices w/ Sand, veg (8" sand layer at the bottom of trench cross-section). Drainage is received from large conveyance ditch between the loop road and the RV pad area. Plans seem to indicate split drainage to this BMP and to the main outfall nearby.	201406: some water visible in observation well…
CX-RV-IT-02	RV Park and Campground	off sharp turn of Loop Road northeast, at entrance to hiking trail	operator	Category E: Filtering Practices	Infiltration Trench	2 of 2	3.00			YO67	020801070203	Cheatham Pond	yes	37.293643	-76.617130	51199	10/2011	6/4/2014	SAT	According to BMP detail, these IT's are underground and observation wells will be used to monitor performance / maintenance needs. Provided model efficiencies are based on infiltration practices w/ Sand, veg (8" sand layer at the bottom of trench cross-section). Drainage is received from swale on other side of the road.	201406: some water visible in observation well…
CX-RV-SW-01	RV Park and Campground		operator	Category E: Filtration Practices	Swale	1 of 4	1.03			YO67	020801070203	Cheatham Pond	yes	37.293601	-76.616077	51199	10/2011	6/4/2014	SAT	Provided model efficiencies for bioswales; no efficiency values listed for "grass swales". BMPs wrap around the site along the loop road and will contain stone check dams to increase retention and provide additional treatment.	
CX-RV-SW-02	RV Park and Campground		operator	Category E: Filtration Practices	Swale	2 of 4	0.52			YO67	020801070203	Cheatham Pond	yes	37.293601	-76.616077	51199	10/2011	6/4/2014	SAT	Provided model efficiencies for bioswales; no efficiency values listed for "grass swales". BMPs wrap around the site along the loop road and will contain stone check dams to increase retention and provide additional treatment.	
CX-RV-SW-03	RV Park and Campground		operator	Category E: Filtration Practices	Swale	3 of 4	1.19			YO67	020801070203	Cheatham Pond	yes	37.293601	-76.616077	51199	10/2011	6/4/2014	SAT	Provided model efficiencies for bioswales; no efficiency values listed for "grass swales". BMPs wrap around the site along the loop road and will contain stone check dams to increase retention and provide additional treatment.	
CX-RV-SW-04	RV Park and Campground		operator	Category E: Filtration Practices	Swale	4 of 4	0.23			YO67	020801070203	Cheatham Pond	yes	37.293601	-76.616077	51199	10/2011	6/4/2014	SAT	Provided model efficiencies for bioswales; no efficiency values listed for "grass swales". BMPs wrap around the site along the loop road and will contain stone check dams to increase retention and provide additional treatment.	
DN-250-EDB-01	(P899) Special Operations Building	east side of building, near main entrance	operator	Category C: Dry Extended Detentioni	Extended Detention Basin	1 of 3	0.95			AS18	030102051301	Redwing Lake	yes	36.790127	-75.965765	511810	07/2010	2/7/2013	SAT	BMP 2 of 8 - BMPs 2 and 3 are connected by RCP. Pond 2 (EDB) drains to Pond 3 (RB). Design calcs consider as single BMP and use combined DA (2.12 ac) rated for 65% P removal. Provided model removal efficiency represents "dry extended detention ponds". BMPs 1-8 could be considered a "multiple pond system", but this distinction would indicate a series of "wet ponds" by the Bay Program's definition. This system combines the use of extended detention and retention, making it difficult to define the BMP type / category.	

POST CONSTRUCTION BMPs

9/29/2014

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
DN-250-EDB-02	(P899) Special Operations Building	south side of building, west end	operator	Category C: Dry Extended Detentioni	Extended Detention Basin	2 of 3	0.64			AS18	030102051301	Redwing Lake	yes	36.788673	-75.966285	511810	07/2010	2/7/2013	SAT	BMP 4 of 8 - BMPs 4, 5, 6, 7 and 8 are connected by RCP. Design calcs consider as single BMP and use combined DA (11.62 ac) rated for 65% P removal. Provided model removal efficiencies represent "dry extended detention ponds." BMPs 1-8 could be considered a "multiple pond system", but this distinction would indicate a series of "wet ponds" by the Bay Program's definition. This system combines the use of extended detention and retention, making it difficult to define the BMP type / category.	
DN-250-EDB-03	(P899) Special Operations Building	south side of building, east end	operator	Category C: Dry Extended Detentioni	Extended Detention Basin	3 of 3	1.61			AS18	030102051301	Redwing Lake	yes	36.788965	-75.965443	511810	07/2010	2/7/2013	SAT	BMP 6 of 8 - BMPs 4, 5, 6, 7 and 8 are connected by RCP. Design calcs consider as single BMP and use combined DA (11.62 ac) rated for 65% P removal. Provided model removal efficiencies represent "dry extended detention ponds." BMPs 1-8 could be considered a "multiple pond system", but this distinction would indicate a series of "wet ponds" by the Bay Program's definition. This system combines the use of extended detention and retention, making it difficult to define the BMP type / category.	
DN-250-RB-01	(P899) Special Operations Building	north of building, near lake	operator	Category A: Wet Ponds and Wetlands	Retention Basin	1 of 5	6.65			AS18	030102051301	Redwing Lake	yes	36.791188	-75.967305	511810	07/2010	2/7/2013	SAT	BMP 1 of 8 - DN-250-RB-01 is a stand alone Retention Basin. Provided model removal efficiencies represent "wet ponds and wetlands". BMPs 1-8 could be considered a "multiple pond system", but this distinction would indicate a series of "wet ponds" by the Bay Program's definition. This system combines the use of extended detention and retention, making it difficult to define the BMP type / category.	201302: Riprap where parking lot channels enter bmp are beginning to be clogged with sediment and there is some evidence of water backing up and bypassing riprap. Maintenance cleaning will be needed.
DN-250-RB-02	(P899) Special Operations Building	northeast of building, between road & lake	operator	Category A: Wet Ponds and Wetlands	Retention Basin	2 of 5	1.17			AS18	030102051301	Redwing Lake	yes	36.790709	-75.965564	511810	07/2010	2/7/2013	SAT	BMP 3 of 8 - BMPs 2 and 3 are connected by RCP. Pond 2 (EDB) drains to Pond 3 (RB). Design calcs consider as single BMP and use combined DA (2.12 ac) rated for 65% P removal. Provided model removal efficiency represents "wet ponds and wetlands". BMPs 1-8 could be considered a "multiple pond system", but this distinction would indicate a series of "wet ponds" by the Bay Program's definition. This system combines the use of extended detention and retention, making it difficult to define the BMP type / category.	201302: Riprap where parking lot channels enter bmp are beginning to be clogged with sediment and there is some evidence of water backing up and bypassing riprap. Maintenance cleaning will be needed.
DN-250-RB-03	(P899) Special Operations Building	south of building, between parking lots, west end	operator	Category A: Wet Ponds and Wetlands	Retention Basin	3 of 5	6.07			AS18	030102051301	Redwing Lake	yes	36.788208	-75.966396	511810	07/2010	2/7/2013	SAT	BMP 5 of 8 - BMPs 4, 5, 6, 7 and 8 are connected by RCP. Design calcs consider as single BMP and use combined DA (11.62 ac) rated for 65% P removal. Provided model removal efficiencies represent "wet ponds and wetlands." BMPs 1-8 could be considered a "multiple pond system", but this distinction would indicate a series of "wet ponds" by the Bay Program's definition. This system combines the use of extended detention and retention, making it difficult to define the BMP type / category.	201302: Riprap where parking lot channels enter bmp are beginning to be clogged with sediment and there is some evidence of water backing up and bypassing riprap. Maintenance cleaning will be needed.
DN-250-RB-04	(P899) Special Operations Building	south of building, between parking lots, east end	operator	Category A: Wet Ponds and Wetlands	Retention Basin	4 of 5	2.42			AS18	030102051301	Redwing Lake	yes	36.788581	-75.965264	511810	07/2010	2/7/2013	SAT	BMP 7 of 8 - BMPs 4, 5, 6, 7 and 8 are connected by RCP. Design calcs consider as single BMP and use combined DA (11.62 ac) rated for 65% P removal. Provided model removal efficiencies represent "wet ponds and wetlands." BMPs 1-8 could be considered a "multiple pond system", but this distinction would indicate a series of "wet ponds" by the Bay Program's definition. This system combines the use of extended detention and retention, making it difficult to define the BMP type / category.	201302: Riprap where parking lot channels enter bmp are beginning to be clogged with sediment and there is some evidence of water backing up and bypassing riprap. Maintenance cleaning will be needed.
DN-250-RB-05	(P899) Special Operations Building	southeast of building, across road	operator	Category A: Wet Ponds and Wetlands	Retention Basin	5 of 5	0.88			AS18	030102051301	Redwing Lake	yes	36.788805	-75.964639	511810	07/2010	2/7/2013	SAT / Notes	BMP 8 of 8 - BMPs 4, 5, 6, 7 and 8 are connected by RCP. Design calcs consider as single BMP and use combined DA (11.62 ac) rated for 65% P removal. Provided model removal efficiencies represent "wet ponds and wetlands." BMPs 1-8 could be considered a "multiple pond system", but this distinction would indicate a series of "wet ponds" by the Bay Program's definition. This system combines the use of extended detention and retention, making it difficult to define the BMP type / category.	201302: Riprap where parking lot channels enter bmp are beginning to be clogged with sediment and there is some evidence of water backing up and bypassing riprap. Maintenance cleaning will be needed. Erosion at drainage channel entrance at northwest corner of bmp needs repair.
DN-308-BR-01	(P132) Special Operations Cafeteria	southwest corner of parking lot, west of BR-02	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2	0.46			AS18	030102051301	Redwing Lake	yes	36.793207	-75.964572	511810	06/2013			filterra unit #1 on drawings	
DN-308-BR-01	(P132) Special Operations Cafeteria	southwest corner of parking lot, east of BR-01	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	0.41			AS18	030102051301	Redwing Lake	yes	36.793204	-75.964516	511810	06/2013			filterra unit #2 on drawings	
DN-308-DP-01	(P132) Special Operations Cafeteria	south of parking lot, west end	operator	Category B: Dry Detention, Hydrodynamic Structure	Dry Pond	1 of 1	1.09			AS19	030102051301	Redwing Lake	yes	36.793220	-75.964365	511810	06/2013				
DN-308-PPND-01	(P132) Special Operations Cafeteria	west & south sides of building	operator	Category A: Wet Ponds and Wetlands	Pocket Pond	1 of 1	0.67			AS18	030102051301	Redwing Lake	yes	36.793551	-75.966062	511810	06/2013				
DN-308-SW-01	(P132) Special Operations Cafeteria	southeast corner of building	operator	Category E: Filtering Practices	Swale	1 of 2	0.18			AS18	030102051301	Redwing Lake	yes	36.793319	-75.965166	511810	06/2013			swale #1 on drawings	
DN-308-SW-02	(P132) Special Operations Cafeteria	between tent structures	operator	Category E: Filtering Practices	Swale	2 of 2	0.25			AS18	030102051301	Redwing Lake	yes	36.793154	-75.964959	511810	06/2013			swale #2 on drawings	
DN-330-BR-01	(P789) Special Operations Building	west of building, south of BR-02	operator	Category E: Filtering Practices	Bioretention Areas	1 of 3				AS18	030102051301	Redwing Lake	yes	36.795096	-75.964202	511810	03/2010	2/7/2013	SAT	filterra unit…	
DN-330-BR-02	(P789) Special Operations Building	west of building, north of BR-01	operator	Category E: Filtering Practices	Bioretention Areas	2 of 3				AS18	030102051301	Redwing Lake	yes	36.795194	-75.964224	511810	03/2010	2/7/2013	SAT	filterra unit…	
DN-330-BR-03	(P789) Special Operations Building	east of building, south end	operator	Category E: Filtering Practices	Bioretention Areas	3 of 3				AS18	030102051301	Redwing Lake	yes	36.795091	-75.963450	511810	03/2010	2/7/2013	SAT	filterra unit…	
DN-625-SW-01	(P976) SOF military working dog operational training facility	south southwest of building	operator	Category E: Filtering Practices	Swale	1 of 3	0.31	0.12	0.19	AS18	030102051301	Redwing Lake	yes			511810	09/2012				
DN-625-SW-02	(P976) SOF military working dog operational training facility	north northeast of building	operator	Category E: Filtering Practices	Swale	2 of 3	1.03	0.55	0.48	AS19	030102051301	Redwing Lake	yes			511811	09/2012				
DN-625-SW-03	(P976) SOF military working dog operational training facility	west northwest of building	operator	Category E: Filtering Practices	Swale	3 of 3	1.41	0.86	0.55	AS20	030102051301	Redwing Lake	yes			511812	09/2012				
FS-1090-IB-01	(P891) Small Arms Range	north of admin building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 1	1.10	0.6	0.50	CB26	020801080202	Chesapeake Bay	yes	36.924723	-76.021421	511810	04/2012	6/6/2014	SAT / Notes	Provided Model Removal Efficiencies represtent a "infiltration practices w/ sand, veg.". Drainage area was obtained from stormwater quality calculations.	201304: check dam between forebay & main basin bypassed
FS-1090-IT-01	(P891) Small Arms Range	south of range building	operator	Category E: Filtering Practices	Infiltration Trench	1 of 1	0.85	0.41	0.44	CB26	020801080202	Chesapeake Bay	yes	36.924397	-76.022073	511810	04/2012	6/6/2014	SAT / Notes	Provided Model Removal Efficiencies represtent a "infiltration practices w/ sand, veg.". Drainage area was obtained from stormwater quality calculations.	201304: no inspection ports visible though shown on plans…
FS-310-BR-01	(P773) Special Operations Facility Support Activity, Operations Facility	west corner of building	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2	0.08			AO23	020403040501	Chesapeake Bay	yes	36.924220	-76.001995	511810	06/2013	6/6/2014	SAT	Filterra Bioretention Unit	
FS-310-BR-02	(P773) Special Operations Facility Support Activity, Operations Facility	south corner of building	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	0.08			AO23	020403040501	Chesapeake Bay	yes	36.924059	-76.001783	511810	06/2013	6/6/2014	SAT	Filterra Bioretention Unit	
FS-310-IB-01	(P773) Special Operations Facility Support Activity, Operations Facility	northwest of building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 1	0.79			AO23	020403040501	Chesapeake Bay	yes	36.924411	-76.002027	511810	06/2013	6/6/2014	SAT		

POST CONSTRUCTION BMPs

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
FS-310-PP-01	(P773) Special Operations Facility Support Activity, Operations Facility	northwest of IB-01	operator	Category D: Infiltration Practices	Porous Pavement	1 of 2	0.16			AO23	020403040501	Chesapeake Bay	yes	36.924604	-76.002266	511810	06/2013	6/6/2014	SAT		
FS-310-PP-02	(P773) Special Operations Facility Support Activity, Operations Facility	south of building	operator	Category D: Infiltration Practices	Porous Pavement	2 of 2	0.35			AO23	020403040501	Chesapeake Bay	yes	36.923913	-76.001708	511810	06/2013	6/6/2014	SAT		
LC-1126-DP-01	Navy Information Operations Command Communications Facility	north northeast of building	operator	Category B: Dry Detention, Hydrodynamic Structure	Dry Pond	1 of 1	0.86			CB26	020801080202	Little Creek	yes	36.914703	-76.188459	511810	07/2006	2/12/2014	UNSAT	associated with building 7 construction	201402: catch basin no longer above bottom of bmp, needs repair
LC-1126-SW-01	Navy Information Operations Command Communications Facility	north northeast of building, south side of DP-01	operator	Category E: Filtering Practices	Swale	1 of 1	0.30			CB26	020801080202	Little Creek	yes	36.914505	-76.188336	511810	07/2006	2/12/2014	SAT	associated with building 7 construction	
LC-124-EEDB-01	associated with building 123 project (P464)	north & west of building	operator	Category C: Dry Extended Detention	Enhanced Extended Detention Basin	1 of 1	10.89			CB26	020801080202	Little Creek Cove	yes	36.910012	-76.176388	511810	07/2010	1/13/2014	SAT / Notes	BMP is usually "wet", or retaining some volume of water. Large number of wetland style plantings, hence "enhanced". Provided removal efficiencies represent dry extended detention. Forebay 90' East of main basin.	201401: needs maintenance/repair
LC-1259-IB-01	(P201) Riverine Boat & Vehicle Maint Facility	east of building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 3	1.03			CB26	020801080202	Little Creek Cove	yes	36.917145	-76.184868	511810	11/2012	5/20/2014	SAT / Notes	Found & added during 2014 inspections	201405: bmp appears to be retaining water too long
LC-1259-IB-02	(P201) Riverine Boat & Vehicle Maint Facility	west of building	operator	Category E: Filtering Practices	Infiltration Basin	2 of 3	0.34			CB26	020801080202	Little Creek Cove	yes	36.917171	-76.185564	511810	11/2012	5/20/2014	SAT / Notes	Found & added during 2014 inspections	201405: bmp appears to be retaining water too long
LC-1259-IB-03	(P201) Riverine Boat & Vehicle Maint Facility	north of building	operator	Category E: Filtering Practices	Infiltration Basin	3 of 3	0.02			CB26	020801080202	Little Creek Cove	yes	36.917319	-76.185344	511810	11/2012	5/20/2014	SAT / Notes	Found & added during 2014 inspections	201405: bmp appears to be retaining water too long
LC-126-SW-01	Surface Operations Facility	in parking lot east of building	operator	Category E: Filtering Practices	Swale	1 of 1	5.00			CB26	020801080202	Little Creek Cove	yes	36.915403	-76.189920	511810	07/2006	1/13/2014	SAT	Provided model removal efficiencies are based on an "Infiltration Practice w/ Sand, Veg." Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Visual observation of No drawings or design calculations have been located at this time.	
LC-1559-IT-01	CESE-SABAR Laydown Area	southeast of building	operator	Category E: Filtering Practices	Infiltration Trench	1 of 1	1.00			CB26	020801080202	Little Creek	yes	36.918232	-76.185760	511810	00/2011	6/10/2014	SAT	Assumed 'Infiltration Trench' based on design drawings. 20' x 36" deep layer of #57 crushed stone wraps around the perimeter of a gravel 'lay down' area. Design calls for 8" perforated underdrains beneath a large area of the 'trench' that connect to a manhole and 12" RCP. Provided model efficiencies are for 'infiltration practices w/o sand, veg.'. No design calcs available at this time.	
LC-1602-BR-01	parking lot southeast of building	northwest corner of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	1 of 6	0.22			CB26	020801080202	Little Creek	yes	36.915295	-76.189582	511810	00/2004	2/12/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 6 BMP's at this location. No drawings or design calculations have been located at this time.	201402: needs maintenance/repair
LC-1602-BR-02	parking lot southeast of building	northeast corner of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	2 of 6	0.22			CB26	020801080202	Little Creek	yes	36.915295	-76.189582	511810	00/2004	2/12/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 6 BMP's at this location. No drawings or design calculations have been located at this time.	201402: needs maintenance/repair
LC-1602-BR-03	parking lot southeast of building	west side, midway of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	3 of 6	0.22			CB26	020801080202	Little Creek	yes	36.915295	-76.189582	511810	00/2004	2/12/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 6 BMP's at this location. No drawings or design calculations have been located at this time.	201402: needs maintenance/repair
LC-1602-BR-04	parking lot southeast of building	southwest corner of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	4 of 6	0.22			CB26	020801080202	Little Creek	yes	36.915295	-76.189582	511810	00/2004	2/12/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 6 BMP's at this location. No drawings or design calculations have been located at this time.	201402: needs maintenance/repair
LC-1602-BR-05	parking lot southeast of building	southeast corner of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	5 of 6	0.22			CB26	020801080202	Little Creek	yes	36.915295	-76.189582	511810	00/2004	2/12/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 6 BMP's at this location. No drawings or design calculations have been located at this time.	201402: needs maintenance/repair
LC-1602-BR-06	parking lot southeast of building	east side, midway of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	6 of 6	0.22			CB26	020801080202	Little Creek	yes	36.915295	-76.189582	511810	00/2004	2/12/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 6 BMP's at this location. No drawings or design calculations have been located at this time.	201402: needs maintenance/repair
LC-1609-BR-01	Naval Network Warfare Command/Navy Cyber Defense Operations Command	parking lot south southwest of building, north side	operator	Category E: Filtering Practices	Bioretention Areas	1 of 4	0.50			CB26	020801080202	Little Creek Channel	yes	36.916295	-76.188136	511810	00/2005	2/12/2014	UNSAT	Provided model removal efficiencies are based on an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 4 BMP's at this location. No design calculations have been located at this time.	201402: formerly associated with building 1265, needs repair
LC-1609-BR-02	Naval Network Warfare Command/Navy Cyber Defense Operations Command	parking lot south southwest of building, south side	operator	Category E: Filtering Practices	Bioretention Areas	2 of 4	0.50			CB26	020801080202	Little Creek Channel	yes	36.915203	-76.188120	511810	00/2005	2/12/2014	UNSAT	Provided model removal efficiencies are based on an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 4 BMP's at this location. No design calculations have been located at this time.	201402: formerly associated with building 1265, needs repair
LC-1609-BR-03	Naval Network Warfare Command/Navy Cyber Defense Operations Command	parking lot south southwest of building, east side, south end	operator	Category E: Filtering Practices	Bioretention Areas	3 of 4	0.50			CB26	020801080202	Little Creek Channel	yes	36.915364	-76.187801	511810	00/2005	2/12/2014	UNSAT	Provided model removal efficiencies are based on an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 4 BMP's at this location. No design calculations have been located at this time.	201402: formerly associated with building 1265, needs repair
LC-1609-BR-04	Naval Network Warfare Command/Navy Cyber Defense Operations Command	parking lot south southwest of building, east side, midway	operator	Category E: Filtering Practices	Bioretention Areas	4 of 4	0.50			CB26	020801080202	Little Creek Channel	yes	36.915632	-76.187682	511810	00/2005	2/12/2014	UNSAT	Provided model removal efficiencies are based on an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 4 BMP's at this location. No design calculations have been located at this time.	201402: formerly associated with building 1265, needs repair
LC-1622-IT-01	west northwest of building	west and south sides of material containment slab	operator	Category E: Filtering Practices	Infiltration Trench	2 of 2	1.00			CB26	020801080202	Little Creek	yes	36.919860	-76.188455	511810	00/2011	5/15/2014	SAT	4' deep trench filled with #57 stone. 8" perforated pipe underdrain beneath this layer that ties into an existing manhole near the SW corner of the slab. Between the slab and this trench, 1' thick layer of #57 stone. Between the trench and the fence, backfill, graded and seeded. Provided model efficiencies for 'infiltration practices w/o sand, veg.'. No design calcs at this time.	
LC-1625-EDB-01	(P010) Explosive Ordnance Disposal Operational Support Unit 10 Ordnance Operations Facility	north of building	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 1	3.15			CB26	020801080202	Little Creek	yes	36.920745	-76.187117	511810	00/2010	5/15/2014	SAT / Notes	Provided model removal efficiency represents Dry Extended Detenion Pond. Design removal efficiency obtained from stormwater quality calculations. Project is currently under construction.	201405: becoming overgrown, needs maintenance
LC-2002-BR-01	Riverine Squadron 2 boat storage shed	northeast corner of building	operator	Category E: Filtering Practices	Bioretention Areas	1 of 6				CB26	020801080202	Little Creek Channel	yes	36.910102	-76.181129	511810	06/2009	5/15/2014	UNSAT	Added during 2013 inspections.	201405: evidence of vehicle activity within bmp
LC-2002-BR-02	Riverine Squadron 2 boat storage shed	southeast of building	operator	Category E: Filtering Practices	Bioretention Areas	2 of 6				CB26	020801080202	Little Creek Channel	yes	36.909294	-76.181271	511810	06/2009	5/15/2014	UNSAT	Added during 2013 inspections.	201405: catch basin grate frame knocked askew
LC-2002-BR-03	Riverine Squadron 2 boat storage shed	south southwest of building, southwest end of compound	operator	Category E: Filtering Practices	Bioretention Areas	3 of 6				CB26	020801080202	Little Creek Channel	yes	36.909047	-76.181736	511810	06/2009	5/15/2014	UNSAT	Added during 2013 inspections.	201405: evidence of vehicle activity within bmp

POST CONSTRUCTION BMPs

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
LC-2002-BR-04	Riverine Squadron 2 boat storage shed	west southwest of building, north northeast of BR-03	operator	Category E: Filtering Practices	Bioretention Areas	4 of 6				CB26	020801080202	Little Creek Channel	yes	36.909331	-76.181877	511810	06/2009	5/15/2014	SAT / Notes	Added during 2013 inspections.	201405: no desireable plants remain, no mulch remains, needs repair
LC-2002-BR-05	Riverine Squadron 2 boat storage shed	southwest of building, north northeast of BR-04	operator	Category E: Filtering Practices	Bioretention Areas	5 of 6				CB26	020801080202	Little Creek Channel	yes	36.909573	-76.181999	511810	06/2009	5/15/2014	SAT / Notes	Added during 2013 inspections.	201405: no desireable plants remain, no mulch remains, needs repair
LC-2002-BR-06	Riverine Squadron 2 boat storage shed	southwest of building, west of BR-03, outside of compound	operator	Category E: Filtering Practices	Bioretention Areas	6 of 6				CB26	020801080202	Little Creek Channel	yes	36.909144	-76.181965	511810	06/2009	5/15/2014	SAT / Notes	Added during 2013 inspections.	201405: no desireable plants remain, no mulch remains, needs repair
LC-3093-BR-01	Navy Exchange Gas Station/Mini Mart	east of canopy near street	operator	Category E: Filtering Practices	Bioretention Areas	1 of 1	0.49			CB26	020801080202	Lake Bradford	yes	36.911001	-76.148089	511810	08/2012	1/10/2014	SAT	Added during 2012 inspections.	
LC-3093-PP-01	Navy Exchange Gas Station/Mini Mart	southeast of building near D street	operator	Category D: Infiltration Practices	Porous Pavement	1 of 4	0.02			CB26	020801080202	Lake Bradford	yes	36.910855	-76.149144	511810	08/2012	1/10/2014	SAT	Added during 2012 inspections.	
LC-3093-PP-02	Navy Exchange Gas Station/Mini Mart	south of & adjacent to building	operator	Category D: Infiltration Practices	Porous Pavement	2 of 4	0.03			CB26	020801080202	Lake Bradford	yes	36.910905	-76.148747	511810	08/2012	1/10/2014	SAT	Added during 2012 inspections.	
LC-3093-PP-03	Navy Exchange Gas Station/Mini Mart	south of PP-02	operator	Category D: Infiltration Practices	Porous Pavement	3 of 4	0.05			CB26	020801080202	Lake Bradford	yes	36.910815	-76.148741	511810	08/2012	1/10/2014	SAT	Added during 2012 inspections.	
LC-3093-PP-04	Navy Exchange Gas Station/Mini Mart	southwest of building	operator	Category D: Infiltration Practices	Porous Pavement	4 of 4	0.02			CB26	020801080202	Lake Bradford	yes	36.910905	-76.148747	511810	08/2012	1/10/2014	SAT	Added during 2012 inspections.	
LC-3093-UDD-01	Navy Exchange Gas Station/Mini Mart	southwest of building	operator	Category B: Dry Detention, Hydrodynamic Structure	Underground Dry Detention Facility	1 of 1	1.33			CB26	020801080202	Lake Bradford	yes	36.910750	-76.148996	511810	08/2012	1/10/2014	SAT	Added during 2012 inspections.	
LC-3147-BR-01	gym, parking lot south of building, across street	center of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	1 of 4	0.93			CB26	020801080202	Lake Bradford	yes	36.912134	-76.152063	511810	00/2008	1/2/2014	UNSAT	Provided model removal efficiencies are based on the lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel (Rockwell Hall). Drainage area represents overall contribution to the 4 BMP's at this location. No drawings or design calculations have been located at this time.	201401: maintenance/repair needed
LC-3147-BR-02	gym, parking lot south of building, across street	west side of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	2 of 4	0.93			CB26	020801080202	Lake Bradford	yes	36.912095	-76.152541	511810	00/2008	1/2/2014	UNSAT	Provided model removal efficiencies are based on the lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel (Rockwell Hall). Drainage area represents overall contribution to the 4 BMP's at this location. No drawings or design calculations have been located at this time.	201401: maintenance/repair needed
LC-3147-BR-03	gym, parking lot south of building, across street	east side of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	3 of 4	0.93			CB26	020801080202	Lake Bradford	yes	36.911819	-76.151704	511810	00/2008	1/2/2014	UNSAT	Provided model removal efficiencies are based on the lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel (Rockwell Hall). Drainage area represents overall contribution to the 4 BMP's at this location. No drawings or design calculations have been located at this time.	201401: maintenance/repair needed
LC-3147-BR-04	gym, parking lot south of building, across street	south side of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	4 of 4	0.93			CB26	020801080202	Lake Bradford	yes	36.911570	-76.152169	511810	00/2008	1/2/2014	UNSAT	Provided model removal efficiencies are based on the lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel (Rockwell Hall). Drainage area represents overall contribution to the 4 BMP's at this location. No drawings or design calculations have been located at this time.	201401: maintenance/repair needed
LC-3335-BR-01	Navy Lodge Expansion	east side of building, midway	operator	Category E: Filtering Practices	Bioretention Areas	1 of 7	0.12			CB26	020801080202	Lake Bradford	yes	36.911199	-76.141353	511810	00/2014	8/7/2014	SAT / Notes	BMP #1 on plans. Found & added during 2014 inspections	201408: grass is dead on banks, bank stabilization becoming an issue
LC-3335-BR-02	Navy Lodge Expansion	east side of building, south end	operator	Category E: Filtering Practices	Bioretention Areas	2 of 7	0.33			CB26	020801080202	Lake Bradford	yes	36.911000	-76.141387	511810	00/2014	8/7/2014	SAT / Notes	BMP #2 on plans. Found & added during 2014 inspections	201408: grass is dead on banks, bank stabilization becoming an issue
LC-3335-BR-03	Navy Lodge Expansion	south side of building, just west of southeast wing	operator	Category E: Filtering Practices	Bioretention Areas	3 of 7	0.16			CB26	020801080202	Lake Bradford	yes	36.911071	-76.141355	511810	00/2014	8/7/2014	SAT / Notes	BMP #3 on plans. Found & added during 2014 inspections	201408: grass is dead on banks, bank stabilization becoming an issue
LC-3335-BR-04	Navy Lodge Expansion	south of building, midway	operator	Category E: Filtering Practices	Bioretention Areas	4 of 7	0.52			CB26	020801080202	Lake Bradford	yes	36.910898	-76.142141	511810	00/2014	8/7/2014	SAT / Notes	BMP #4 on plans. Found & added during 2014 inspections	201408: grass is dead on banks, bank stabilization becoming an issue
LC-3335-BR-05	Navy Lodge Expansion	south side of building, just east of southwest wing	operator	Category E: Filtering Practices	Bioretention Areas	5 of 7	0.40			CB26	020801080202	Lake Bradford	yes	36.911065	-76.142486	511810	00/2014	8/7/2014	SAT / Notes	BMP #6 on plans. Found & added during 2014 inspections	201408: grass is dead on banks, bank stabilization becoming an issue
LC-3335-BR-06	Navy Lodge Expansion	west side of southwest wing	operator	Category E: Filtering Practices	Bioretention Areas	6 of 7	0.66			CB26	020801080202	Lake Bradford	yes	36.911231	-76.142935	511810	00/2014	8/7/2014	SAT / Notes	BMP #7 on plans. Found & added during 2014 inspections	201408: grass is dead on banks, bank stabilization becoming an issue
LC-3335-BR-07	Navy Lodge Expansion	west of building, south end, along B street	operator	Category E: Filtering Practices	Bioretention Areas	7 of 7	0.22			CB26	020801080202	Lake Bradford	yes	36.911203	-76.143329	511810	00/2014	8/7/2014	SAT / Notes	BMP #8 on plans. Found & added during 2014 inspections	201408: grass is dead on banks, bank stabilization becoming an issue
LC-3430-BR-01	Conference Center	south southwest of building, southeast of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	1 of 1	1.10			CB26	020801080202	Lake Bradford	yes	36.907446	-76.141080	511810	00/2003	1/10/2014	SAT / Notes	Provided model removal efficiencies are based on the lack of an underdrain in the design. Calls for topsoil and mulch above a sand layer. Bioretention are recieves drainage from the 3430 parking area and is adjacent to an existing tree line. Aerial photos show the completed parking lot but inlet structure and bioretention are not apparent. No design calcs are available at this time.	201401: needs maintenance/repair, bmp severely overgrown. from what can be seen appears to be working
LC-3432-IT-01	(P023) Child Development Center	north of building along Amphibious Drive	operator	Category E: Filtering Practices	Infiltration Trench	1 of 3	1.92			CB26	020801080202	Lake Bradford	yes	36.908558	-76.142356	511810	07/2012	1/10/2014	SAT	Provided model removal efficincies indicate infiltration practice w/ sand, veg. Design drawings show 5 BMPs on site, however, calculations within BOD only provide drainage area for 3 of the BMPs. Swale is also not addressed within design calculations	201202: site under construction
LC-3432-IT-02	(P023) Child Development Center	southeast of building, south of the end of "A" street	operator	Category E: Filtering Practices	Infiltration Trench	2 of 3	2.71			CB26	020801080202	Lake Bradford	yes	36.907364	-76.141750	511810	07/2012	1/10/2014	SAT	Provided model removal efficincies indicate infiltration practice w/ sand, veg. Drawings do not provide drainage areas for BMPs and calculations have not been located, only final Basis of Design.	201202: site under construction
LC-3432-IT-03	(P023) Child Development Center	south of building	operator	Category E: Filtering Practices	Infiltration Trench	3 of 3	0.61			CB26	020801080202	Lake Bradford	yes	36.907505	-76.142529	511810	07/2012	1/10/2014	SAT	Provided model removal efficincies indicate infiltration practice w/ sand, veg. Drawings do not provide drainage areas for BMPs and calculations have not been located, only final Basis of Design.	201202: site under construction
LC-3432-SW-01	(P023) Child Development Center	east of building, along "A" street	operator	Category E: Filtering Practices	Swale	1 of 1				CB26	020801080202	Lake Bradford	yes	36.907849	-76.141698	511810	06/2012	1/10/2014	SAT	Provided model removal efficiency represents "bioswale". Swale is used to convey runoff into the Infiltration Trench on the south side of the building. Not addressed in stormwater calculations but visible on design drawings.	201202: site under construction

POST CONSTRUCTION BMPs

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
LC-3447-SW-01	Bank of America	south side of building	operator	Category D: Infiltration Practices	Swale	1 of 2	0.30			CB26	020801080202	Lake Bradford	yes	36.908590	-76.146956	511810	04/2004	1/10/2014	SAT	BMP was identified in an existing database, but very little suplemental information has been located at this time.	201205: second of two swales listed not found…
LC-3509-IB-01	(P851) First Naval Construction Division Operations Control Facility	east of building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 2	1.97			CB26	020801080202	Little Creek Cove	yes	36.915319	-76.156785	511810	04/2012	1/10/2014	SAT / Notes	Provided model removal efficiency represents Infiltration practice w/o sand, vegetation. Infiltration basins with rip-rap outlet weirs. Designed to contain the LID, 2-year and 10 year volume.	201401: bmp appears to be retaining water too long
LC-3509-IB-02	(P851) First Naval Construction Division Operations Control Facility	northwest of building	operator	Category E: Filtering Practices	Infiltration Basin	2 of 2	1.07			CB26	020801080202	Little Creek Cove	yes	36.915559	-76.157826	511810	04/2012	1/10/2014	SAT / Notes	Provided model removal efficiency represents Infiltration practice w/o sand, vegetation. Infiltration basins with rip-rap outlet weirs. Designed to contain the LID, 2-year and 10 year volume.	201401: bmp appears to be retaining water too long
LC-3509-PP-01	(P851) First Naval Construction Division Operations Control Facility	north of building	operator	Category D: Infiltration Practices	Porous Pavement	1 of 1	1.09			CB26	020801080202	Little Creek Cove	yes	36.915827	-76.157418	511810	04/2012	1/10/2014	SAT	Provided model removal efficiency represents Infiltration practice w/o sand, vegetation. Infiltration basins with rip-rap outlet weirs. Designed to contain the LID, 2-year and 10 year volume.	201203: site under construction
LC-3537-EDB-01	Police Station	west of 3539 (kennel), across Eaton Lane	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 1				CB26	020801080202	Lake Bradford	yes	36.911964	-76.155153	511810	07/2007	5/15/2014	SAT / Notes	BMP #2 on plans. Found & added during 2012 inspections	201405: Has shallow marsh in bottom., pines growing on bank, will need maintenance at some point.
LC-3537-IB-01	Police Station	north northeast of building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 5				CB26	020801080202	Lake Bradford	yes	36.912024	-76.154919	511810	07/2007	5/15/2014	SAT	BMP #1 on plans. Found & added during 2012 inspections	
LC-3537-IB-02	Police Station	northwest of 3538 (garage), along Eaton Lane	operator	Category E: Filtering Practices	Infiltration Basin	2 of 5				CB26	020801080202	Lake Bradford	yes	36.912350	-76.154885	511810	07/2007	5/15/2014	SAT	BMP #3 on plans. Found & added during 2012 inspections	
LC-3537-IB-03	Police Station	west of 3538 (garage), along Eaton Lane	operator	Category E: Filtering Practices	Infiltration Basin	3 of 5				CB26	020801080202	Lake Bradford	yes	36.912586	-76.154839	511810	07/2007	5/15/2014	SAT	BMP #4 on plans. Found & added during 2012 inspections	
LC-3537-IB-04	Police Station	west of 3539 (kennel), along Eaton Lane	operator	Category E: Filtering Practices	Infiltration Basin	4 of 5				CB26	020801080202	Lake Bradford	yes	36.912434	-76.153906	511810	07/2007	5/15/2014	SAT	BMP #5 on plans. Found & added during 2012 inspections	
LC-3537-IB-05	Police Station	south of building	operator	Category E: Filtering Practices	Infiltration Basin	5 of 5				CB26	020801080202	Lake Bradford	yes	36.911874	-76.154075	511810	07/2007	5/15/2014	SAT	BMP #6 on plans. Found & added during 2012 inspections	
LC-3537-SW-01	Police Station	north of parking lot along 5th street	operator	Category E: Filtering Practices	Swale	1 of 1				CB26	020801080202	Lake Bradford	yes	36.912899	-76.154222	511810	07/2007	5/15/2014	SAT	BMP #7 on plans. Found & added during 2012 inspections	
LC-3808-BR-01	Seal Team Ten building	north of building, west end, by north fence	operator	Category E: Filtering Practices	Bioretention Areas	1 of 7				CB26	020801080202	Little Creek Cove	yes	36.918223	-76.166035	511810	01/2011	1/17/2014	SAT / Notes	Found & added during 2012 inspections	201401: needs minor maintenance
LC-3808-BR-02	Seal Team Ten building	west of building, midway	operator	Category E: Filtering Practices	Bioretention Areas	2 of 7				CB26	020801080202	Little Creek Cove	yes	36.917637	-76.166357	511810	01/2011	1/17/2014	SAT / Notes	Found & added during 2012 inspections	201401: needs maintenance
LC-3808-BR-03	2nd parking lot west of building across intercove road	east end of parking lot, north of BR-04	operator	Category E: Filtering Practices	Bioretention Areas	3 of 7				CB26	020801080202	Little Creek Cove	yes	36.917783	-76.167722	511810	01/2011	1/17/2014	SAT / Notes	Found & added during 2012 inspections	201401: needs maintenance
LC-3808-BR-04	2nd parking lot west of building across intercove road	east end of parking lot, south of BR-03	operator	Category E: Filtering Practices	Bioretention Areas	4 of 7				CB26	020801080202	Little Creek Cove	yes	36.917622	-76.167768	511810	01/2011	1/17/2014	SAT / Notes	Found & added during 2012 inspections	201401: needs maintenance
LC-3808-BR-05	2nd parking lot west of building across intercove road	along south edge of parking lot, east end	operator	Category E: Filtering Practices	Bioretention Areas	5 of 7				CB26	020801080202	Little Creek Cove	yes	36.917457	-76.168055	511810	01/2011	1/17/2014	SAT / Notes	Found & added during 2012 inspections	201401: needs repair
LC-3808-BR-06	2nd parking lot west of building across intercove road	along south edge of parking lot, west end, north of BR-07	operator	Category E: Filtering Practices	Bioretention Areas	6 of 7				CB26	020801080202	Little Creek Cove	yes	36.917550	-76.168551	511810	01/2011	1/17/2014	SAT / Notes	Found & added during 2012 inspections	201401: needs repair
LC-3808-BR-07	2nd parking lot west of building across intercove road	south of parking lot, west end, south of BR-06, along Gator Blvd	operator	Category E: Filtering Practices	Bioretention Areas	7 of 7				CB26	020801080202	Little Creek Cove	yes	36.917486	-76.168606	511810	01/2011	1/17/2014	UNSAT	Found & added during 2012 inspections	201401: needs repair
LC-3808-HDS-01	Seal Team Ten building	north of building, west end	operator	Category H: Street Sweeping, Catch Basin Inserts	Hydrodynamic Structures	1 of 2				CB26	020801080202	Little Creek Cove	yes	36.918047	-76.165944	511810	07/2004	1/17/2014	SAT	Swirl Separator - BMP was identified in an existing database which called for annual maintenance (cleanout). POC from oil recovery could not be found in Global Address List. Targeted pollutant is Total Suspended Solids.	201401: should have regular maintanence…
LC-3808-HDS-02	Seal Team Ten building	southwest of building, across intercove road, at intersection of gator blvd	operator	Category H: Street Sweeping, Catch Basin Inserts	Hydrodynamic Structures	2 of 2				CB26	020801080202	Little Creek Cove	yes	36.917254	-76.166794	511810	07/2004	1/17/2014	SAT	Swirl Separator - BMP was identified in an existing database which called for annual maintenance (cleanout). POC from oil recovery could not be found in Global Address List. Targeted pollutant is Total Suspended Solids.	201401: should have regular maintanence…
LC-3811-IB-01	parking lot south of building	south of parking lot	operator	Category E: Filtering Practices	Infiltration Basin	1 o f 1	0.49			CB26	020801080202	Little Creek Cove	yes	36.918060	-76.158391	511810	10/2011	1/9/2014	SAT	Found & added during 2012 inspections	
LC-3841-BR-01	Seal Team 2 Amphibious Operations Building	south side of building, west end	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2				CB26	020801080202	Little Creek Cove	yes	36.916815	-76.164356	511810	01/2011	2/11/2014	SAT / Notes	Found & added during 2012 inspections	201402: needs maintenance
LC-3841-BR-02	Seal Team 2 Amphibious Operations Building	south side of building, east end	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2				CB26	020801080202	Little Creek Cove	yes	36.916752	-76.163499	511810	01/2011	2/11/2014	SAT / Notes	Found & added during 2012 inspections	201402: needs maintenance/repair
LC-3842-BR-01	Seal Team Four building	south side of building, west end	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2				CB26	020801080202	Little Creek Cove	yes	36.917067	-76.165455	511810	01/2011	2/11/2014	SAT / Notes	Found & added during 2012 inspections	201402: needs maintenance/repair
LC-3842-BR-02	Seal Team Four building	south side of building, east end	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2				CB26	020801080202	Little Creek Cove	yes	36.916978	-76.164994	511810	01/2011	2/11/2014	SAT / Notes	Found & added during 2012 inspections	201402: needs maintenance
LC-3849-BR-01	parking lot east of building	north edge of lot	operator	Category E: Filtering Practices	Bioretention Areas	1 of 5	0.30			CB26	020801080202	Little Creek Cove	yes	36.916317	-76.162520	511810	00/2006	1/13/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 5 BMP's at this location. No drawings or design calculations have been located at this time.	201401: needs repair
LC-3849-BR-02	parking lot east of building	inside lot northwest	operator	Category E: Filtering Practices	Bioretention Areas	2 of 5	0.30			CB26	020801080202	Little Creek Cove	yes	36.916168	-76.162740	511810	00/2006	1/13/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 5 BMP's at this location. No drawings or design calculations have been located at this time.	201401: needs repair
LC-3849-BR-03	parking lot east of building	inside lot northeast	operator	Category E: Filtering Practices	Bioretention Areas	3 of 5	0.30			CB26	020801080202	Little Creek Cove	yes	36.916131	-76.162512	511810	00/2006	1/13/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 5 BMP's at this location. No drawings or design calculations have been located at this time.	201401: needs repair

POST CONSTRUCTION BMPs

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
LC-3849-BR-04	parking lot east of building	south edge of lot	operator	Category E: Filtering Practices	Bioretention Areas	4 of 5	0.30			CB26	020801080202	Little Creek Cove	yes	36.915696	-76.163354	511810	00/2006	1/13/2014	SAT / Notes	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 5 BMP's at this location. No drawings or design calculations have been located at this time.	201401: currently being reconstructed by construction project to south (substation)
LC-3849-BR-05	parking lot east of building	southeast corner of lot	operator	Category E: Filtering Practices	Bioretention Areas	5 of 5	0.30			CB26	020801080202	Little Creek Cove	yes	36.915562	-76.162421	511810	00/2006	1/13/2014	SAT / Notes	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 5 BMP's at this location. No drawings or design calculations have been located at this time.	201401: currently being expanded by construction project to south (substation)
LC-3857-BR-01	parking lot east of building	north side, west end of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	1 of 7	0.60			CB26	020801080202	Desert Cove	yes	36.918178	-76.160429	511810	00/2003	5/9/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies were obtained from a LID Fact sheet developed by Sarah Diebel. No drawings or design calculations have been located at this time.	201405: only one tree remains, needs maintenance/repair
LC-3857-BR-02	parking lot east of building	northeast corner of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	2 of 7	0.60			CB26	020801080202	Desert Cove	yes	36.918123	-76.159654	511810	00/2003	5/9/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies were obtained from a LID Fact sheet developed by Sarah Diebel. No drawings or design calculations have been located at this time.	201405: partially overgrown, needs maintenance/repair
LC-3857-BR-03	parking lot east of building	east side, midway of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	3 of 7	0.60			CB26	020801080202	Desert Cove	yes	36.917686	-76.159588	511810	00/2003	5/9/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies were obtained from a LID Fact sheet developed by Sarah Diebel. No drawings or design calculations have been located at this time.	201405: needs maintenance
LC-3857-BR-04	parking lot east of building	southeast corner of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	4 of 7	0.60			CB26	020801080202	Desert Cove	yes	36.917222	-76.159650	511810	00/2003	5/9/2014	SAT / Notes	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies were obtained from a LID Fact sheet developed by Sarah Diebel. No drawings or design calculations have been located at this time.	201405: large sinkhole within bmp, needs repair
LC-3857-BR-05	parking lot east of building	south side, midway of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	5 of 7	0.60			CB26	020801080202	Desert Cove	yes	36.917193	-76.160135	511810	00/2003	5/9/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies were obtained from a LID Fact sheet developed by Sarah Diebel. No drawings or design calculations have been located at this time.	201405: needs maintenance
LC-3857-BR-06	parking lot east of building	west side, south end of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	6 of 7	0.60			CB26	020801080202	Desert Cove	yes	36.917446	-76.160652	511810	00/2003	5/9/2014	SAT / Notes	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies were obtained from a LID Fact sheet developed by Sarah Diebel. No drawings or design calculations have been located at this time.	201405: needs maintenance/repair
LC-3857-BR-07	parking lot east of building	west side, north end of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	7 of 7	0.60			CB26	020801080202	Desert Cove	yes	36.917907	-76.160644	511810	00/2003	5/9/2014	UNSAT	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. Design removal efficiencies were obtained from a LID Fact sheet developed by Sarah Diebel. No drawings or design calculations have been located at this time.	201405: catch basin no longer higher than bottom of bmp, needs repair
LC-3889-BR-01	(P773) Special Operations Facility Support Activity, Operations Facility	west side of building, midway, by alley	operator	Category E: Filtering Practices	Bioretention Areas	1 of 4	0.12			CB26	020801080202	Desert Cove	yes	36.921718	-76.165287	511810	06/2013	7/22/2014	SAT	Filterra Bioretention Unit C-1 on design drawings	
LC-3889-BR-02	(P773) Special Operations Facility Support Activity, Operations Facility	west side of building, between BR-01 and BR-03	operator	Category E: Filtering Practices	Bioretention Areas	2 of 4	0.12			CB26	020801080202	Desert Cove	yes	36.921469	-76.165333	511810	06/2013	7/22/2014	SAT	Filterra Bioretention Unit D-1 on design drawings	
LC-3889-BR-03	(P773) Special Operations Facility Support Activity, Operations Facility	southwest corner of building	operator	Category E: Filtering Practices	Bioretention Areas	3 of 4	0.12			CB26	020801080202	Desert Cove	yes	36.921257	-76.165285	511810	06/2013	7/22/2014	SAT	Filterra Bioretention Unit E-1 on design drawings	
LC-3889-IB-01	(P773) Special Operations Facility Support Activity, Operations Facility	south of building, west end	operator	Category E: Filtering Practices	Infiltration Basin	1 of 1	4.99			CB26	020801080202	Desert Cove	yes	36.920991	-76.165389	511810	06/2013	7/22/2014	SAT / Notes		201407: some landscape fabric exposed on north bank
LC-3889-PP-01	(P773) Special Operations Facility Support Activity, Operations Facility	east of buillding, west of PP-02	operator	Category D: Infiltration Practices	Porous Pavement	1 of 2	0.20			CB26	020801080202	Desert Cove	yes	36.921632	-76.163654	511810	06/2013	7/22/2014	SAT		
LC-3889-PP-02	(P773) Special Operations Facility Support Activity, Operations Facility	east of buillding, east of PP-01	operator	Category D: Infiltration Practices	Porous Pavement	2of 2	0.21			CB26	020801080202	Desert Cove	yes	36.921523	-76.163303	511810	06/2013	7/22/2014	SAT		
LC-3897-XX-01	vehicle maintenance facility	east of building, adjacent to washrack	operator	Category E: Filtering Practices	Infiltration Basin	1 of 1				CB26	020801080202	Desert Cove	yes	36.918666	-76.160542	511810		7/23/2014	SAT		
LC-7-DP-01	vehicle maintenance facility	east of building, north end	operator	Category B: Dry Detention, Hydrodynamic Structure	Dry Pond	1 of 1	0.28			CB26	020801080202	Little Creek	yes	36.913614	-76.187676	511810	07/2006	2/12/2014	SAT		
LC-7-SW-01	vehicle maintenance facility	south of building, east end	operator	Category E: Filtering Practices	Swale	1 of 1	0.34			CB26	020801080202	Little Creek	yes	36.913202	-76.187719	511810	07/2006	2/12/2014	SAT		
LC-CB125-BR-01	elevated causeway blast/paint facility	south of building west side	operator	Category E: Filtering Practices	Bioretention Areas	1 of 4	0.11			CB26	020801080202	Desert Cove	yes	36.918442	-76.169440	511810	00/2008	1/17/2014	SAT / Notes	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. BMP was designed in part to help reduce dissolved Zinc levels from hydroblasting operations at CB 125. Drainage area was obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 2 BMP's at this location. No drawings or design calculations have been located at this time.	201401: no mulch remaining, plants missing, needs maintenance
LC-CB125-BR-02	elevated causeway blast/paint facility	south of building east side	operator	Category E: Filtering Practices	Bioretention Areas	2 of 4	0.10			CB26	020801080202	Desert Cove	yes	36.918502	-76.169073	511810	00/2008	1/17/2014	SAT / Notes	Provided model removal efficiencies are based on the *assumed* lack of an underdrain in the design. BMP was designed in part to help reduce dissolved Zinc levels from hydroblasting operations at CB 125. Drainage area was obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 2 BMP's at this location. No drawings or design calculations have been located at this time.	201401: no mulch remaining, plants missing, overgrown, needs maintenance
LC-CB125-BR-03	elevated causeway blast/paint facility	south of building, west of driveway, north of BR-04	operator	Category E: Filtering Practices	Bioretention Areas	3 of 4				CB26	020801080202	Little Creek Cove	yes	36.917670	-76.169467	511810	01/2011	1/17/2014	UNSAT	Found & added during 2012 inspections	201401: nearly indistinguishable as bmp, needs rebuilding
LC-CB125-BR-04	elevated causeway blast/paint facility	south of building, west of driveway, along Gator Blvd	operator	Category E: Filtering Practices	Bioretention Areas	4 of 4				CB26	020801080202	Little Creek Cove	yes	36.917551	-76.169366	511810	01/2011	1/17/2014	UNSAT	Found & added during 2012 inspections	201401: nearly indistinguishable as bmp, needs rebuilding
LC-Gate3-EDB-01	3708, 3709A, 3710 area	north of truck inspection	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 1	2.00			CB26	020801080202	Little Creek Cove	yes	36.908158	-76.161859	511810	07/2004	4/1/2014	SAT / Notes	Part of the "Gate 3 security enhancement" project. Provided model removal efficiencies for "Dry Extended Detention Ponds". Design efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 3 BMP's at this location. No drawings or design calculations have been located at this time.	201401: Exposed soil North side & on dividing berm needs some maintenance.
LC-Gate3-RB-01	3708, 3709A, 3710 area	east of gatehouse	operator	Category A: Wet Ponds and Wetlands	Retention Basin	1 o f 1	2.00			CB26	020801080202	Little Creek Cove	yes	36.908986	-76.162081	511810	07/2004	4/1/2014	SAT	Part of the "Gate 3 security enhancement" project. Provided model removal efficiencies for "Wet Ponds and Wetlands". Design efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 3 BMP's at this location. No drawings or design calculations have been located at this time.	

POST CONSTRUCTION BMPs

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
LC-Gate3-SW-01	3708, 3709A, 3710 area	west of gatehouse	operator	Category D: Infiltration Practices	Swale	1 of 1	1.00			CB26	020801080202	Little Creek Cove	yes	36.908372	-76.162629	511810	07/2004	4/1/2014	SAT	Part of the "Gate 3 security enhancement" project. Provided model removal efficiencies for "Vegetated Open Channels, C/D soils, No Underdrain." Grassed Swale with check dam conveys runoff to the retention basin to the North. Design removal efficiencies and contributing drainage area were obtained from a LID Fact sheet developed by Sarah Diebel. Drainage area represents overall contribution to the 3 BMP's at this location. No drawings or design calculations have been located at this time.	
NMC-247-BR-01	Child Development Center	southeast of building	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2	0.42	0.12	0.30	JL56	020802080206	Elizabeth River	yes	36.843059	-76.307958	51740	01/2010	7/29/2014	SAT	Added during 2012 inspections	
NMC-247-BR-02	Child Development Center	west of building, across driveway	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	0.37	0.2	0.17	JL56	020802080206	Elizabeth River	yes	36.843366	-76.308390	51740	01/2010	7/29/2014	SAT / Notes	Added during 2012 inspections	201407:: needs maintenance
NSA-MCA600-EDB-01	Northwest of MCA600, across fence	access from ballfields side	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 1	20.00			JL57	020802080302	Bousch Creek	yes	36.931254	-76.296487	51710	06/2005	1/9/2014	SAT / Notes	Unknown date installed. No plans, calcs or project information currently available. Listed information was obtained from existing BMP access database. Large detention basin adjacent to the Camp Allen Salvage Yard / IR Project and 564 to the North. Appears to have a sediment forebay (aerial imagery). Drainage area pulled from existing database, could be overestimated.	201401: needs maintenance, remove trees
NSA-NH32-IB-01	Naval Reserve Forces Command Administrative Building	east of building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 2	2.88			JL57	020802080302	Bousch Creek	yes	36.920367	-76.299816	51710	08/2012	1/9/2014	SAT	Found & added during 2011 inspections	
NSA-NH32-IB-02	Naval Reserve Forces Command Administrative Building	west of building across fire lane	operator	Category E: Filtering Practices	Infiltration Basin	2 of 2	0.78			JL57	020802080302	Bousch Creek	yes	36.920292	-76.300739	51710	08/2012	1/9/2014	SAT	Found & added during 2011 inspections	
NSA-NH33-DP-01	(P820) MARFORLANT Command Operations Facility	east of building	operator	Category B: Dry Detention, Hydrodynamic Structure	Dry Pond	1 of 1				JL57	020802080302	Bousch Creek	yes	36.921639	-76.303574	51710	05/2006	1/9/2014	SAT	Found & added during 2011 inspections	
NSA-NH46-IB-01	(P839) Joint Forces Command HQ Building 1	south southwest of building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 1	1.51			JL57	020802080302	Bousch Creek	yes	36.921430	-76.305677	51710	02/2012	1/9/2014	SAT		
NSA-NH95-BR-01	NH-95 (Parking Lot)		operator	Category E: Filtering Practices	Bioretention Areas	4 of 4	0.13			JL57	020802080302	Bousch Creek	yes	36.923872	-76.308132	51710	00/2009	1/9/2014	SAT	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Design calcs have not been located at this time, however drawings and some calculations from Filterra were used to obtain the provided drainage areas.	201401: needs maintenance, tree trimmed, cleaned out
NSA-NH95-BR-02	NH-95 (Parking Lot)		operator	Category E: Filtering Practices	Bioretention Areas	3 of 4	0.11			JL57	020802080302	Bousch Creek	yes	36.923899	-76.307696	51710	00/2009	1/9/2014	SAT	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Design calcs have not been located at this time, however drawings and some calculations from Filterra were used to obtain the provided drainage areas.	
NSA-NH95-BR-03	NH-95 (Parking Lot)		operator	Category E: Filtering Practices	Bioretention Areas	2 of 4	0.09			JL57	020802080302	Bousch Creek	yes	36.923305	-76.307642	51710	00/2009	1/9/2014	SAT / Notes	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Design calcs have not been located at this time, however drawings and some calculations from Filterra were used to obtain the provided drainage areas.	201401: needs maintenance, volunteer trees removed from curb inlet, clean out
NSA-NH95-BR-04	NH-95 (Parking Lot)		operator	Category E: Filtering Practices	Bioretention Areas	1 of 4	0.10			JL57	020802080302	Bousch Creek	yes	36.923306	-76.307572	51710	00/2009	1/9/2014	SAT / Notes	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Design calcs have not been located at this time, however drawings and some calculations from Filterra were used to obtain the provided drainage areas.	201401: needs maintenance, tree trimmed, clean out
NSA-SDA336-RB-01	Fleet Personal Property Office	west of building, across 14th street	operator	Category A: Wet Ponds and Wetlands	Retention Basin	1 of 1				JL56	020802080206	Elizabeth River	yes	36.921558	-76.317521	51710	07/1995			bmp built during SDA337 construction	
NSN-A50-GR-01	A-50		operator	Category G: Impervious Surface Reduction	Green Roof	1 of 1	0.25			JL57	020802080302	Elizabeth River	yes	36.949171	-76.319036	51710	00/2010	11/10/2011	SAT	Currently seeking design drawings / calcs with drainage area and pollutant removal information. Recieved architectural drawings but they do not include this information. Green roofs are not included in the list of removal efficiencies for the scenario builder model. Spoke with architect/DM (Kevin White), who said roof was 11,000 sf (.252 acres).	
NSN-CD13-BR-01	Navy Exchange	east of northeast corner of building, along west side of mall drive	operator	Category E: Filtering Practices	Bioretention Areas	1 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.943668	-76.307941	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Renamed, formerly SW-12.
NSN-CD13-BR-02	Navy Exchange	east of southeast corner of building, west of mall drive	operator	Category E: Filtering Practices	Bioretention Areas	2 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.943172	-76.307436	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass, needs maintenance. Renamed, formerly SW-11.
NSN-CD13-BR-03	Navy Exchange	east of southeast corner of building, near building	operator	Category E: Filtering Practices	Bioretention Areas	3 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.943125	-76.307829	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Added 201405.
NSN-CD13-BR-04	Navy Exchange	east of CD14, west side of mall drive	operator	Category E: Filtering Practices	Bioretention Areas	4 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.942766	-76.307201	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Renamed, formerly SW-10.
NSN-CD13-BR-05	Navy Exchange	southeast of CD14, west side of mall drive	operator	Category E: Filtering Practices	Bioretention Areas	5 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.942439	-76.306964	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Renamed, formerly SW-09.
NSN-CD13-BR-06	Navy Exchange	southeast corner of parking lot, across mall drive from perimeter fence access road entrance	operator	Category E: Filtering Practices	Bioretention Areas	6 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.942081	-76.306927	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Renamed, formerly SW-07.
NSN-CD13-BR-07	Navy Exchange	north side of mall drive, south of CD14	operator	Category E: Filtering Practices	Bioretention Areas	7 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.942012	-76.307602	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass, evidence of water being retained too long, needs maintenance. Renamed, formerly SW-05.
NSN-CD13-BR-08	Navy Exchange	north center of CD12 parking lot, south side of mall drive	operator	Category E: Filtering Practices	Bioretention Areas	8 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.941984	-76.308167	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Renamed, formerly SW-04.
NSN-CD13-BR-09	Navy Exchange	north side of mall drive, across from northeast corner of CD21 fence	operator	Category E: Filtering Practices	Bioretention Areas	9 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.941957	-76.308649	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Renamed, formerly SW-03.
NSN-CD13-BR-10	Navy Exchange	north side of mall drive, across from CD21	operator	Category E: Filtering Practices	Bioretention Areas	10 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.941929	-76.309223	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Renamed, formerly SW-01.
NSN-CD13-BR-11	Navy Exchange	north of CD21, south side of mall drive	operator	Category E: Filtering Practices	Bioretention Areas	11 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.941794	-76.309071	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Added 201405.
NSN-CD13-BR-12	Navy Exchange	northwest corner of CD12 parking lot, south side of mall drive	operator	Category E: Filtering Practices	Bioretention Areas	12 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.941812	-76.308660	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass. BMP is partially filled in with sediment, needs maintenance. Renamed, formerly SW-02.

POST CONSTRUCTION BMPs

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
NSN-CD13-BR-13	Navy Exchange	north of CD12, south side of mall drive	operator	Category E: Filtering Practices	Bioretention Areas	13 of 13	0.51			JL57	020802080302	Bousch Creek	yes	36.941860	-76.307605	51710	06/2011	5/21/2014	SAT / Notes	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: Curb cut inlets somewhat blocked by sediment/grass, has small sinkhole, needs maintenance. Renamed, formerly SW-06.
NSN-CD13-DP-01	Navy Exchange	east of mall drive, north of perimeter fence access road entrance	operator	Category B: Dry Detention, Hydrodynamic	Dry Pond	1 of 1	0.51			JL57	020802080302	Bousch Creek	yes	36.942044	-76.306497	51710	06/2011	5/21/2014	SAT	Bioswale is not identified as a BMP type in the "filtering practices" category. However, model removal efficiency is provided for bioswales in Scenario Builder. Currently seeking design drawings / calcs including drainage area information.	201405: renamed (formerly SW-08)
NSN-CEP178-BR-01	CEP178 Fire Station	north of building, along steet	operator	Category E: Filtering Practices	Bioretention Areas	I of 2	0.49			JL57	020802080302	Elizabeth River	yes	36.943110	-76.323982	51710	08/2011	2/18/2014	SAT / Notes	Fire station project is in final stages of construction. BMPs have been constructed and will be finished after the site is stabalized. River stone will be used instead of mulch. Provided model efficiencies represent the presence of an underdrain.	201402: will need maintenance soon
NSN-CEP178-BR-02	CEP178 Fire Station	west of building, in parking lot	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	0.89			JL57	020802080302	Elizabeth River	yes	36.943394	-76.323588	51710	08/2011	2/18/2014	SAT / Notes	Fire station project is in final stages of construction. BMPs have been constructed and will be finished after the site is stabalized. River stone will be used instead of mulch. Provided model efficiencies represent the presence of an underdrain.	201402: will need maintenance soon
NSN-CEP76-IB-01	Navy Exchange Gas Station/Mini Mart	north of building, between canopy & B Avenue	operator	Category E: Filtering Practices	Infiltration Basin	I of 2	0.56			JL57	020802080302	Elizabeth River	yes	36.937038	-76.322644	51710	03/2013	2/24/2014	UNSAT		201402: rain not infiltrating, project managerment to have repaired (no report filed)
NSN-CEP76-IB-02	Navy Exchange Gas Station/Mini Mart	south of building	operator	Category E: Filtering Practices	Infiltration Basin	2 of 2	1.99			JL57	020802080302	Elizabeth River	yes	36.936300	-76.322504	51710	03/2013	2/24/2014	UNSAT		201402: rain not infiltrating, project managerment to have repaired (no report filed)
NSN-LF**-HDS-01	P767 H60 Hangar / Apron Project		operator	Category H: Street Sweeping, Catch Basin Inserts	Hydrodynamic Structures	1 of 1	7.57			JL57	020802080302	Willoughby Bay	yes			51710				Hydroguard Separator - Drainage area of 7.57 acres was obtained from Contech proposal documents. Contech informed that no products were purchased by the Navy for this project and if hydrodynamic treatment was procured, it must have been a competitors product! Waiting on confirmation of what kind of HDS, if any, was installed for this project.	
NSN-LF**-UDD-01	P767 H60 Hangar		operator	Category B: Dry Detention, Hydrodynamic Structure	Underground Dry Detention Facility	1 of 1	7.57			JL57	020802080302		yes			51710				Drainage area of 7.57 acres was obtained from Contech proposal documents. Contech informed that no products were purchased by the Navy for this project and if hydrodynamic treatment was procured, it must have been a competitors product! Waiting on confirmation of what kind of underground detention was installed. Conversations with Greg Alexander indicate that a detention system is in place but was designed to retain AFFF, not as a SW management measure.	
NSN-LP34-BR-01		parking lot north of building, north side	operator	Category E: Filtering Practices	Bioretention Areas	1 of 1	1.67			JL57	020802080302	Willoughby Bay	yes	36.943813	-76.291049	51710	00/2006	3/11/2014	SAT / Notes	No design calcs are available at this time. Provided model efficiencies represent the presence of an underdrain.	201403: needs maintenance
NSN-LP49-BR-01	(P014) E2D simulator & training	east of building	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2	1.00			JL57	020802080302	Willoughby Bay	yes	36.943665	-76.293102	51710	11/2011	3/11/2014	SAT	Still seeking design calculations as well. Project # 3A2290	201403: will need maintenance soon
NSN-LP49-BR-02	(P014) E2D simulator & training	north of building	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	0.66			JL57	020802080302	Willoughby Bay	yes	36.944311	-76.293378	51710	11/2011	3/11/2014	SAT	Still seeking design calculations as well. Project # 3A2290	
NSN-O27-BR-01	O27 (P235) Navy Warfare Development Command operations facility	parking lot south of building across Piersey Street, west side, northernmost of five Filterra units	operator	Category E: Filtering Practices	Bioretention Areas	1 of 7	0.30			JL57	020802080302	Willoughby Bay	yes	36.945402	-76.307634	51710	00/2009	7/17/2014	SAT	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Drainage areas were obtained from the "Drainage Divide Map" (Sheet C203). Some of these units lead to the O-27 extended detention basin.	
NSN-O27-BR-02	O27 (P235) Navy Warfare Development Command operations facility	parking lot south of building across Piersey Street, west side, second northernmost of five Filterra units	operator	Category E: Filtering Practices	Bioretention Areas	2 of 7	0.30			JL57	020802080302	Willoughby Bay	yes	36.945353	-76.307630	51710	00/2009	7/17/2014	SAT	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Drainage areas were obtained from the "Drainage Divide Map" (Sheet C203). Some of these units lead to the O-27 extended detention basin.	
NSN-O27-BR-03	O27 (P235) Navy Warfare Development Command operations facility	parking lot south of building across Piersey Street, west side, third northernmost of five Filterra units	operator	Category E: Filtering Practices	Bioretention Areas	3 of 7	0.30			JL57	020802080302	Willoughby Bay	yes	36.945070	-76.307607	51710	00/2009	7/17/2014	SAT / Notes	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Drainage areas were obtained from the "Drainage Divide Map" (Sheet C203). Some of these units lead to the O-27 extended detention basin.	201407: needs undesireable plants removed
NSN-O27-BR-04	O27 (P235) Navy Warfare Development Command operations facility	parking lot south of building across Piersey Street, west side, second southermost of five Filterra units	operator	Category E: Filtering Practices	Bioretention Areas	4 of 7	0.30			JL57	020802080302	Willoughby Bay	yes	36.945021	-76.307602	51710	00/2009	7/17/2014	SAT / Notes	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Drainage areas were obtained from the "Drainage Divide Map" (Sheet C203). Some of these units lead to the O-27 extended detention basin.	201407: needs undesireable plants removed, washed out area along north side of bmp needs repair
NSN-O27-BR-05	O27 (P235) Navy Warfare Development Command operations facility	parking lot south of building across Piersey Street, west side, southermost of five Filterra units	operator	Category E: Filtering Practices	Bioretention Areas	5 of 7	0.31			JL57	020802080302	Willoughby Bay	yes	36.944730	-76.307579	51710	00/2009	7/17/2014	UNSAT	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Drainage areas were obtained from the "Drainage Divide Map" (Sheet C203). Some of these units lead to the O-27 extended detention basin.	201407: tree missing, needs replacement
NSN-O27-BR-06	O27 (P235) Navy Warfare Development Command operations facility	parking lot south of building across Piersey Street, south side, midway	operator	Category E: Filtering Practices	Bioretention Areas	6 of 7	0.22			JL57	020802080302	Willoughby Bay	yes	36.944747	-76.306972	51710	00/2009	7/17/2014	SAT	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Drainage areas were obtained from the "Drainage Divide Map" (Sheet C203). Some of these units lead to the O-27 extended detention basin.	
NSN-O27-BR-07	O27 (P235) Navy Warfare Development Command operations facility	southeast corner of parking lot east of building	operator	Category E: Filtering Practices	Bioretention Areas	7 of 7	0.27			JL57	020802080302	Willoughby Bay	yes	36.945875	-76.306127	51710	00/2009	7/17/2014	SAT	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. Drainage areas were obtained from the "Drainage Divide Map" (Sheet C203). Some of these units lead to the O-27 extended detention basin.	
NSN-O27-EDB-01	O27 (P235) Navy Warfare Development Command operations facility	south side of building	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 1	6.38			JL57	020802080302	Willoughby Bay	yes	36.945821	-76.307422	51710	00/2009	7/17/2014	SAT	Model efficiencies represent a "dry extended detention pond". Drainage area represents the sum of all contributing "sub-areas" that are identifed on the "Drainage Divide Map" (Sheet C203). Some of this area recieves pre-treatment from the O-27 Filterra units. Actual pollutant removal expecations need to be addressed for this and other BMPs that are "in series"	
NSN-P1-BR-01	O27 (P235) Navy Warfare Development Command operations facility	north of building	operator	Category E: Filtering Practices	Bioretention Areas	1 of 1	0.26			JL57	020802080302	Willoughby Bay	yes	36.945245	-76.311746	51710	00/2008	7/17/2014	SAT / Notes	Provided model efficiencies represent the presence of an underdrain. No design calcs have been located at this time.	201407: inlet pipe to east was off, resecured by inspector
NSN-P86-BR-01	(P86) Bowling Alley	parking lot west of building, east side, northernmost of two Filterra units	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2	0.22			JL57	020802080302	Willoughby Bay	yes	36.945073	-76.308650	51710	00/2009	7/17/2014	SAT	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. These BMPs contribute drainage to the P-86 extended detention basin.	201406: building now vacant, to be demolished
NSN-P86-BR-02	(P86) Bowling Alley	parking lot west of building, east side, southernmost of two Filterra units	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	0.26			JL57	020802080302	Willoughby Bay	yes	36.945023	-76.308639	51710	00/2009	7/17/2014	SAT	Filterra Bioretention Units. Removal efficiencies were obtained from the manufacturer: TN- 42-45%, TP- 60-70%, SED- 85%. Unsure of BMP Category / Type. Unit acts as a small bioretention area but could also be considered a filtering practice. These BMPs contribute drainage to the P-86 extended detention basin.	201406: building now vacant, to be demolished
NSN-P86-EDB-01	(P86) Bowling Alley	west of building	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 1	0.77			JL57	020802080302	Willoughby Bay	yes	36.944984	-76.308580	51710	00/2009	7/17/2014	SAT	Model efficiencies represent a "dry extended detention pond". Drainage area represents the sum of all contributing "sub-areas" that are identifed on the Drainage Divide Map (Sheet C203). Some of this area recieves pre-treatment from the O-27 Filterra units. Actual pollutant removal expecations need to be addressed for this and other BMPs that are "in series"	201406: building now vacant, to be demolished
NSN-Q47-BR-01	Q-area parking lot southwest of fishing pier Q47	just east of head of pier	operator	Category E: Filtering Practices	Bioretention Areas	1 of 13	1.97			JL57	020802080302	Elizabeth River	yes	36.962270	-76.321697	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the lack of an underdrain as indicated by design drawings, which also explains the increas in design removal efficiency compared to BMPs 3-13.	
NSN-Q47-BR-02	Q-area parking lot southwest of small pier Q47	just west of head of pier	operator	Category E: Filtering Practices	Bioretention Areas	2 of 13	1.96			JL57	020802080302	Elizabeth River	yes	36.962573	-76.322158	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the lack of an underdrain as indicated by design drawings, which also explains the increas in design removal efficiency compared to BMPs 3-13.	
NSN-Q47-BR-03	Q-area parking lot southwest of small pier Q47	along south side of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	3 of 13	1.95			JL57	020802080302	Elizabeth River	yes	36.960578	-76.322783	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	
NSN-Q47-BR-04	Q-area parking lot southwest of small pier Q47	east side of parking lot, southernmost of two	operator	Category E: Filtering Practices	Bioretention Areas	4 of 13	0.75			JL57	020802080302	Elizabeth River	yes	36.960901	-76.321566	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	

POST CONSTRUCTION BMPs

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
NSN-Q47-BR-05	Q-area parking lot southwest of small pier Q47	east side of parking lot, northernmost of two	operator	Category E: Filtering Practices	Bioretention Areas	5 of 13	0.94			JL57	020802080302	Elizabeth River	yes	36.961501	-76.321743	51710	00/2009	6/20/2014	SAT / Notes	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	201406: bmp has large bare spots along sides and some erosion in center
NSN-Q47-BR-06	Q-area parking lot southwest of small pier Q47	east of center of parking lot, southernmost of two	operator	Category E: Filtering Practices	Bioretention Areas	6 of 13	0.44			JL57	020802080302	Elizabeth River	yes	36.960907	-76.322451	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	
NSN-Q47-BR-07	Q-area parking lot southwest of small pier Q47	east of center of parking lot, northernmost of two	operator	Category E: Filtering Practices	Bioretention Areas	7 of 13	0.80			JL57	020802080302	Elizabeth River	yes	36.961715	-76.322448	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	
NSN-Q47-BR-08	Q-area parking lot southwest of small pier Q47	west of center of parking lot, southernmost of four	operator	Category E: Filtering Practices	Bioretention Areas	8 of 13	0.42			JL57	020802080302	Elizabeth River	yes	36.960940	-76.323344	51710	00/2009	6/20/2014	UNSAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	201406: bmp is retaining water too long
NSN-Q47-BR-09	Q-area parking lot southwest of small pier Q47	west of center of parking lot, second southernmost of four	operator	Category E: Filtering Practices	Bioretention Areas	9 of 13	0.25			JL57	020802080302	Elizabeth River	yes	36.961349	-76.323349	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	
NSN-Q47-BR-10	Q-area parking lot southwest of small pier Q47	west of center of parking lot, second northernmost of four	operator	Category E: Filtering Practices	Bioretention Areas	10 of 13	0.54			JL57	020802080302	Elizabeth River	yes	36.961981	-76.323334	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	
NSN-Q47-BR-11	Q-area parking lot southwest of small pier Q47	west of center of parking lot, northernmost of four	operator	Category E: Filtering Practices	Bioretention Areas	11 of 13	0.43			JL57	020802080302	Elizabeth River	yes	36.962516	-76.323334	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	
NSN-Q47-BR-12	Q-area parking lot southwest of small pier Q47	west side of parking lot, southernmost of two	operator	Category E: Filtering Practices	Bioretention Areas	12 of 13	0.58			JL57	020802080302	Elizabeth River	yes	36.960876	-76.323985	51710	00/2009	6/20/2014	SAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	
NSN-Q47-BR-13	Q-area parking lot southwest of small pier Q47	west side of parking lot, northernmost of two	operator	Category E: Filtering Practices	Bioretention Areas	13 of 13	1.52			JL57	020802080302	Elizabeth River	yes	36.961701	-76.323985	51710	00/2009	6/20/2014	UNSAT	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings.	201406: bmp is failing to drain
NSN-SP233-EDB-01	Commander, Helicopter Sea Combat Wing Atlantic	north side of navfac transportation storage lot north of building	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 1	6.80			JL57	020802080302	Willoughby Bay	yes	36.951322	-76.272701	51710	00/2010	6/9/2014	SAT	Part of the P767 project, new RV & Trailer lot located in the SP area. Provided model removal efficiencies represent dry extended detention ponds. Drainage area was obtained from Appendix B: Stormwater Management Calculations from within the "P767 Site Package 1 Civil Calculations" file. This was the area used to document phosphorus removal credit for the basin. These calculations seem to combine treatment provided by this BMP and a "vortechs" unit that may not have been installed.	
NSN-SP28-BR-01	Tricon Restaurant	southeast corner of parkinng lot	operator	Category E: Filtering Practices	Bioretention Areas	1 of 1	0.52			JL57	020802080302	Willoughby Bay	yes	36.946057	-76.273097	51710	00/2008	6/9/2014	SAT / Notes	Provided model removal efficiencies represent the presence of an underdrain as indicated by design drawings. No design calcs have been located at this time.	201406: entrance partially blocked by sediment, needs maintenance
NSN-SP48-BR-01	Military Sealift Fleet Support Command Headquarters	west side of building, south	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2				JL57	020802080302	Willoughby Bay	yes	36.944271	-76.278116	51710	00/2008	6/9/2014	SAT / Notes	Provided model removal efficiencies represent the *assumed* presence of an underdrain.. No design drawings or calcs have been located at this time.	201406: bmp appears to be retaining water too long
NSN-SP48-BR-02	Military Sealift Fleet Support Command Headquarters	west side of building, north	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2				JL57	020802080302	Willoughby Bay	yes	36.943938	-76.278177	51710	00/2008	6/9/2014	SAT	Provided model removal efficiencies represent the *assumed* presence of an underdrain.. No design drawings or calcs have been located at this time.	
NSN-SP48-EDB-01	Military Sealift Fleet Support Command Headquarters	south of parking lot west of building	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 1				JL57	020802080302	Willoughby Bay	yes	36.943703	-76.278988	51710	00/2008	6/9/2014	SAT	Provided model removal efficiencies represent "Dry Extended Detention Ponds". No design drawings or calcs have been located at this time.	
NSN-V47-IB-01	Naval Surface Warfare Center Carderock Division, Combat Craft Division	south of building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 1				JL58	020802080302	Willoughby Bay	yes	36.946476	-76.292701	51710	00/2011	6/10/2014	SAT		
NSN-V70-FLT-01	(P201V) Aircraft Maintenance Hangar	approximately 150' from water & 200' north of north side of building V29	operator	Category E: Filtering Practices	Organic Media Filter	1 of 2	4.96			JL57	020802080302	Willoughby Bay	yes	36.948017	-76.293879	51710	09/2009			Contech Stormfilter - Site 119 (East end of apron). Provided model removal efficiencies represent "Filtering Practices". BMP consists of an 8'x20' StormFilter system with (47) 18" cartridges. Details are available in the design information provided by Contech. The drainage area represents half of the area being treated by this parallel combination of StormFilter systems.	
NSN-V70-FLT-02	(P201V) Aircraft Maintenance Hangar	approximately 150' from water & 200' north of north side of building V29	operator	Category E: Filtering Practices	Organic Media Filter	2 of 2	4.96			JL57	020802080302	Willoughby Bay	yes	36.947978	-76.293777	51710	09/2009			Contech Stormfilter - Site 119A (East end of apron). Provided model removal efficiencies represent "Filtering Practices". BMP consists of an 8'x20' StormFilter system with (47) 18" cartridges. Details are available in the design information provided by Contech. The drainage area represents the area being treated by this parallel combination of StormFilter systems.	
NSN-V71-FLT-01	(P201V) Aircraft Maintenance Hangar	approximately 100' from water & 200' east of northeast corner of building V146	operator	Category H; Street Sweeping, Catch Basin Inserts	Hydrodynamic Structures	1 of 1	9.51			JL57	020802080302	Willoughby Bay	yes	36.949108	-76.296563	51710	09/2009			Contech Vortechs model 5000 specified - Site 214 (West end of apron).	
NSN-V88-FLT-01	V88		operator	Category E: Filtering Practices	Organic Media Filter	12	0.75			JL57	020802080302	Willoughby Bay	yes	36.949070	-76.297852	51710	04/2008	6/25/2014	N/A	Designed for removal of Copper and Zinc. Study results incicate 83-93% Cu Removal, 99% Zn Removal. Drainage area represents (total area/12) of V-88 rooftop that recieves treatment from the 12 filtration units. Total drainage area is 0.748, however, exact distribution to each of the 12 units is not available. While designed for Cu and Zn removal, these filters should provide removal of TN, TP and TSS; exact removal efficiencies are unknown at this time. Provided model efficiencies represent "filtering practices".	201406: disconnected, out of service (roof replaced)
NSN-W5-SW-01	Carrier Strike Group Building	northwest corner of building	operator	Category E: Filtering Practices	Swale	1 of 4	0.43			JL57	020802080302	Elizabeth River	yes	36.952841	-76.327056	51710	08/2012	2/18/2014	SAT		
NSN-W5-SW-02	Carrier Strike Group Building	southwest corner of building	operator	Category E: Filtering Practices	Swale	2 of 4	0.43			JL57	020802080302	Elizabeth River	yes	36.952541	-76.327193	51710	08/2012	2/18/2014	SAT		
NSN-W5-SW-03	Carrier Strike Group Building	northeast corner of building	operator	Category E: Filtering Practices	Swale	3 of 4	0.22			JL57	020802080302	Elizabeth River	yes	36.952888	-76.326638	51710	08/2012	2/18/2014	SAT		
NSN-W5-SW-04	Carrier Strike Group Building	southeast corner of building	operator	Category E: Filtering Practices	Swale	4 of 4	0.22			JL57	020802080302	Elizabeth River	yes	36.952502	-76.326651	51710	08/2012	2/18/2014	SAT		
NSN-WB200-IB-01	Child Development Center		operator	Category E: Filtering Practices	Infiltration Basin	1 of 1	6.25			JL57	020802080302	Willoughby Bay	yes	36.956663	-76.269237	51710	09/2011	6/11/2014	SAT / Notes	Provided model efficiencies represent "Infiltration Practices w/o sand, veg." Drainage area was obtained by comparing drainage area map (FinalBOD) with Grading & Drainage Plan sheet. Total site area = 8.54 acres; subtract area of basins A, B, D1, E2 to obtain 6.25 acres. Pollutant removal clacs for BMP have not been located at this time.	201406: bmp has been overtaken by phragmites
NSN-Y109-BR-01	Defense Distribution Center Warehouse	South of building across Morris Street, east end	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2	1.50			JL57	020802080302	Elizabeth River	yes	36.945557	-76.327095	51710	08/2009	2/18/2014	UNSAT	Drawings obtainted for parking areas, but drainage area information is not included. Design calculations have not been located at this time.	201402: inlets blocked, water backed up in parking lot, mulch gone, needs repair
NSN-Y109-BR-02	Defense Distribution Center Warehouse	South of building across Morris Street, west end	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	1.50			JL57	020802080302	Elizabeth River	yes	36.945670	-76.325283	51710	08/2009	2/18/2014	UNSAT	Drawings obtainted for parking areas, but drainage area information is not included. Design calculations have not been located at this time.	201402: inlets blocked, water backed up in parking lot, mulch gone, needs repair
NSN-Z312-BR-01	Steam Plant	north of building, beneath overhead steam line	operator	Category E: Filtering Practices	Bioretention Areas	1 of 1	0.19			JL57	020802080302	Elizabeth River	yes	36.944389	-76.325052	51710	00/2006	2/18/2014	UNSAT	Provided model efficiencies represent the presence of an underdrain. No design calcs have been located at this time.	201402: severely overgrown, needs repair, rebuilding
NSN-Z312-DRR-01	Steam Plant	southeast corner of building	operator	Category G: Impervious Surface Reduction	Disconnection of Rooftop Runoff	1 of 1	0.25			JL57	020802080302	Elizabeth River	yes	36.943681	-76.324771	51710	00/2006	2/18/2014	SAT / Notes	Available design infromation on the foundation planter is very limited. Drawings do not provide treated drainage area (part or all of the Z-312 rooftop?) No design calcs have been located to check removal efficiencies. Foundation planters are not identified in model category or types, no model efficiencies provided either. Could also be considered Category D: Infiltration practice.	201402: cracked, overgrown some
NW-500-BR-01	P208V Joint Regional Correction Facility	southwest side of parking lot, along road	operator	Category E: Filtering Practices	Bioretention Areas	1 of 3	1.62			AS09	030102051103	Mill Creek	yes	36.574015	-76.259467	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM3 on drawings	201406: some bank stabilization needed

POST CONSTRUCTION BMPs

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
NW-500-BR-02	P208V Joint Regional Correction Facility	northeast of parking lot, adjacent to prisoner intake	operator	Category E: Filtering Practices	Bioretention Areas	2 of 3	0.25			AS09	030102051103	Mill Creek	yes	36.574171	-76.258541	51550	05/2011	6/18/2014	SAT	Identified as SWM4 on drawings	
NW-500-BR-03	P208V Joint Regional Correction Facility	north of parking lot, along exit driveway	operator	Category E: Filtering Practices	Bioretention Areas	3 of 3	1.05			AS09	030102051103	Mill Creek	yes	36.574649	-76.259496	51550	05/2011	6/18/2014	SAT	Identified as SWM6 on drawings	
NW-500-EEDB-01	P208V Joint Regional Correction Facility	southwest of recreation field, across perimeter road	operator	Category C: Dry Extended Detention	Enhanced Extended Detention Basin	1 of 1	7.59			AS09	030102051103	Mill Creek	yes	36.575239	-76.260963	51550	05/2011	6/18/2014	SAT	Identified as SWM2 on drawings	
NW-500-GR-01	P208V Joint Regional Correction Facility	ten roofs on five cell block buildings, northwest side of facility	operator	Category G: Impervious Surface Reduction	Green Roof	1 of 1	1.03			AS09	030102051103	Mill Creek	yes	36.575375	-76.258649	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM0 on drawings	201406: maintenance/repair of vegetation needed
NW-500-IT-01	P208V Joint Regional Correction Facility	northeast of parking lot, adjacent to prisoner intake	operator	Category E: Filtering Practices	Infiltration Trench	1 of 9	0.18			AS09	030102051103	Mill Creek	yes	36.574149	-76.258584	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM5 on drawings	201406: water in observation well about 3' below grade
NW-500-IT-02	P208V Joint Regional Correction Facility	southwest of recreation field, along perimeter road	operator	Category E: Filtering Practices	Infiltration Trench	2 of 9	0.35			AS09	030102051103	Mill Creek	yes	36.575861	-76.261336	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM8 on drawings	201406: water in observation well about 2' below grade
NW-500-IT-03	P208V Joint Regional Correction Facility	southwest side of parking lot, northwesternmost of three	operator	Category E: Filtering Practices	Infiltration Trench	3 of 9	0.88			AS09	030102051103	Mill Creek	yes	36.574110	-76.259518	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM9 on drawings	201406: no water visible in observation well
NW-500-IT-04	P208V Joint Regional Correction Facility	southwest side of parking lot, middle of three	operator	Category E: Filtering Practices	Infiltration Trench	4 of 9	0.50			AS09	030102051103	Mill Creek	yes	36.573837	-76.259196	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM10 on drawings	201406: water in observation well about 2' below grade
NW-500-IT-05	P208V Joint Regional Correction Facility	southwest side of parking lot, southeasternmost of three	operator	Category E: Filtering Practices	Infiltration Trench	5 of 9	0.11			AS09	030102051103	Mill Creek	yes	36.573632	-76.258954	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM11 on drawings	201406: water in observation well about 1.5' below grade
NW-500-IT-06	P208V Joint Regional Correction Facility	north of north corner of complex, across perimeter road	operator	Category E: Filtering Practices	Infiltration Trench	6 of 9	1.92			AS09	030102051103	Mill Creek	yes	36.577219	-76.260435	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM12 on drawings	201406: water in observation well about 2' below grade
NW-500-IT-07	P208V Joint Regional Correction Facility	south corner of site, northeast of pump station	operator	Category E: Filtering Practices	Infiltration Trench	7 of 9	0.04			AS09	030102051103	Mill Creek	yes	36.573595	-76.258574	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM13a on drawings	201406: no water visible in observation well, inspection port cover not secured to pipe, becoming partially obscured by ground cover
NW-500-IT-08	P208V Joint Regional Correction Facility	south corner of site, southwest of pump station	operator	Category E: Filtering Practices	Infiltration Trench	8 of 9	0.17			AS09	030102051103	Mill Creek	yes	36.573296	-76.258842	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM13b on drawings	201406: water in observation well about 2' below grade
NW-500-IT-09	P208V Joint Regional Correction Facility	east of east corner of parking lot, across entrance driveway	operator	Category E: Filtering Practices	Infiltration Trench	9 of 9	0.04			AS09	030102051103	Mill Creek	yes	36.573813	-76.258236	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM14 on drawings	201406: no water visible in observation well
NW-500-RB-01	P208V Joint Regional Correction Facility	east of east corner of complex, across perimeter road	operator	Category A: Wet Ponds and Wetlands	Retention Basin	1 of 1	8.45			AS09	030102051103	Mill Creek	yes	36.629154	-76.265823	51550	05/2011	6/18/2014	SAT / Notes	Identified as SWM1 on drawings	201406: eroded entrance channel southwest end of bmp
NW-510-BR-01	P208A Stewart Campground	between campsites 1 and 2	operator	Category E: Filtering Practices	Bioretention Areas	1 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	08/2012	6/18/2014	SAT / Notes	Identified as infiltration basin 1 on drawings	201406: bmp appears to be retaining water too long
NW-510-BR-02	P208A Stewart Campground	between campsites 2 and 3	operator	Category E: Filtering Practices	Bioretention Areas	2 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	09/2012	6/19/2014	SAT	Identified as infiltration basin 2 on drawings	
NW-510-BR-03	P208A Stewart Campground	between campsites 3 and 4	operator	Category E: Filtering Practices	Bioretention Areas	3 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	10/2012	6/20/2014	SAT	Identified as infiltration basin 3 on drawings	
NW-510-BR-04	P208A Stewart Campground	between campsites 4 and 5	operator	Category E: Filtering Practices	Bioretention Areas	4 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/21/2014	SAT / Notes	Identified as infiltration basin 4 on drawings	
NW-510-BR-05	P208A Stewart Campground	between campsites 5 and 6	operator	Category E: Filtering Practices	Bioretention Areas	5 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/22/2014	SAT	Identified as infiltration basin 5 on drawings	
NW-510-BR-06	P208A Stewart Campground	between campsites 6 and 7	operator	Category E: Filtering Practices	Bioretention Areas	6 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/23/2014	SAT	Identified as infiltration basin 6 on drawings	
NW-510-BR-07	P208A Stewart Campground	between campsites 8 and 9	operator	Category E: Filtering Practices	Bioretention Areas	7 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/24/2014	SAT	Identified as infiltration basin 7 on drawings	
NW-510-BR-08	P208A Stewart Campground	between campsites 9 and 10	operator	Category E: Filtering Practices	Bioretention Areas	8 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/25/2014	SAT	Identified as infiltration basin 8 on drawings	
NW-510-BR-09	P208A Stewart Campground	between campsites 11 and 12	operator	Category E: Filtering Practices	Bioretention Areas	9 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/26/2014	SAT	Identified as infiltration basin 9 on drawings	
NW-510-BR-10	P208A Stewart Campground	between campsites 12 and 13	operator	Category E: Filtering Practices	Bioretention Areas	10 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/27/2014	SAT	Identified as infiltration basin 10 on drawings	
NW-510-BR-11	P208A Stewart Campground	between campsites 13 and 14	operator	Category E: Filtering Practices	Bioretention Areas	11 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/28/2014	SAT	Identified as infiltration basin 11 on drawings	
NW-510-BR-12	P208A Stewart Campground	east southeast of campsite 14	operator	Category E: Filtering Practices	Bioretention Areas	12 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/29/2014	SAT	Identified as infiltration basin 12 on drawings	
NW-510-BR-13	P208A Stewart Campground	along road across from dump station	operator	Category E: Filtering Practices	Bioretention Areas	13 of 13				AS09	030102051103	Mill Creek	yes	36.570885	-76.257702	51550	11/2012	6/30/2014		Identified as infiltration basin 13 on drawings	
OC-450-BR-01	Child Development Center	north corner of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2	2.18			AS14	030102051203	West Neck Creek	yes	36.805900	-76.024310	51810	00/2010	4/18/2014	UNSAT	Drainage area represents the northern sub-area of the entire site. Provided removal efficiencies represent the presence of an underdrain.	201201: no mulch remaining, some bare soil between bmp & building, only two trees remaining within bmp, needs maintenance
OC-450-BR-02	Child Development Center	west corner of parking lot	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	1.77			AS14	030102051203	West Neck Creek	yes	36.805488	-76.024795	51810	00/2010	4/18/2014	UNSAT	Drainage area represents the southern sub-area of the entire site. Provided removal efficiencies represent the presence of an underdrain.	201404: small sinkhole at catch basin, no mulch remaining, evidence of erosion at both inlets, only one tree remaining within bmp, needs repair
OC-450-PP-01	Child Development Center	center & nw edge of parking lot	operator	Category D: Infiltration Practices	Porous Pavement	1 of 1	0.17			AS14	030102051203	West Neck Creek	yes	36.805496	-76.024280	51810	00/2010	4/18/2014	SAT	Provided model efficiencies represent "permeable pavement w/o sand, veg, no underdrain". Drainage area of parking lot is not available in drawings (divide map splits the site into 2 sub-areas that drain to the bioretention areas). Calculations do not address porous pavement as a BMP and provide no removal information.	
OC-56-BR-01	(P837) C40 Aircraft Maintenance Hangar	in front of east corner of building	operator	Category E: Filtering Practices	Bioretention Areas	1 of 3	0.35			CB25	020801080201	London Bridge Creek	yes	36.816619	-76.028542	51810	05/2012	4/18/2014	SAT	Provided model efficiencies represent the lack of an underdrain. Stormwater calcs use the total DA of all 3 BMPs (1.03 acres) for phosophorus removal calcs.	201404: will need weed control soon
OC-56-BR-02	(P837) C40 Aircraft Maintenance Hangar	in front of building, midway	operator	Category E: Filtering Practices	Bioretention Areas	2 of 3	0.21			CB25	020801080201	London Bridge Creek	yes	36.816460	-76.028714	51810	05/2012	4/18/2014	SAT	Provided model efficiencies represent the lack of an underdrain. Stormwater calcs use the total DA of all 3 BMPs (1.03 acres) for phosophorus removal calcs.	201404: will need weed control soon
OC-56-BR-03	(P837) C40 Aircraft Maintenance Hangar	in front of south corner of building	operator	Category E: Filtering Practices	Bioretention Areas	3 of 3	0.47			CB25	020801080201	London Bridge Creek	yes	36.816183	-76.029029	51810	05/2012	4/18/2014	SAT	Provided model efficiencies represent the lack of an underdrain. Stormwater calcs use the total DA of all 3 BMPs (1.03 acres) for phosophorus removal calcs.	201404: will need weed control soon
OC-56-HDS-01	(P837) C40 Aircraft Maintenance Hangar	in front of south corner of building, next to BR-03	operator	Category H: Street Sweeping, Catch Basin Inserts	Hydrodynamic Structures	1 of 1	1.28			CB25	020801080201	London Bridge Creek	yes	36.816231	-76.029108	51810	05/2012	4/18/2014	SAT	Hydroworks HG 6 - 20% P removal was rating approved by City of Virginia Beach. 80% SED removal indicated by Hydroworks proposal package. Provided model efficiencies represent "Hydrodynamic Structures". This BMP is not addressed in the VSWMH calcs.	201404: should be added to maintenance program

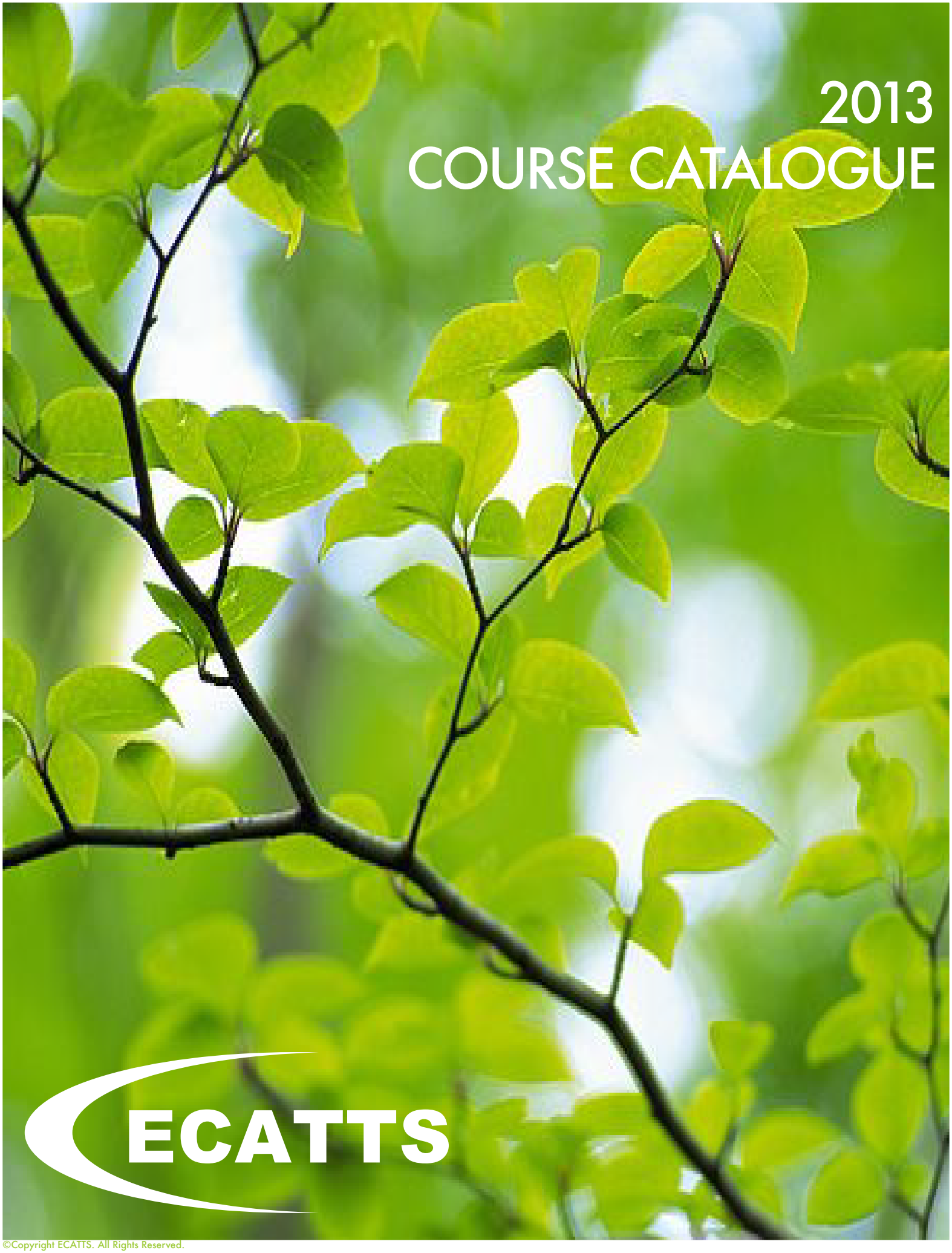
POST CONSTRUCTION BMPs

Inventory ID	Building / Area	Location	Operator or Privately Owned	Model BMP Category	Model BMP Type	Quantity	Drainage Area (Acres)	Impervious Drainage Area	Pervious Drainage Area	Virginia Hydrologic Unit Code (VAHU6, 6th Order)	Hydrologic Unit Code (HUC 12)	Receiving Waterbody	Impaired Waterbody	Latitude	Longitude	State FIPS	Date Installed	Inspection Date	Inspection Results	Notes	Inspection Notes
OC-GOLF-CW-01	Aeropines Golf Course	check in, drive on cart path west of clubhouse, take right then left to unlocked gate (else go thru recycle facility)	operator	Category A: Wet Ponds and Wetlands	Constructed Wetland	1 of 1	10.00			AS14	030102051203	West Neck Creek	yes	36.793186	-76.039038	51810	00/2003	3/23/2014	SAT / Notes	Wetland Mitigation site was designed to offset NASOs unauthorized impact to other wetlands in the area. Can this be considered a stormwater BMP or should it be considered a water body protected by CWA? Wetland does provide some water quality benefits to the area but was not intended to act as a BMP. Provided model efficiencies represent "Wet Ponds and Wetlands"	201406: perimeter becoming forested with pines, making visibility difficult…
SC-1579-RP-01	(P354) bachelor enlisted quarters	east of building, across street	operator	Category A: Wet Ponds and Wetlands	Retention Pond (Wet)	1 of 1	7.70	2.4	5.30	JL53	020802080203	Paradise Creek	yes	36.808877	-76.313599	51740	07/1995	7/29/2014	UNSAT	added during 2014 inspections	201407: severely overgrown with phragmites, unable to see to inspect…
SC-1717-RP-01	new commissary	south of building	operator	Category A: Wet Ponds and Wetlands	Retention Pond (Wet)	1 of 1	6.85			JL53	020802080203	Paradise Creek	yes	36.808155	-76.311282	51740	03/2013	7/29/2014	SAT	added during 2014 inspections	
SJ-167-PP-01	SPAWAR communications system lab	southeast of building	operator	Category D: Infiltration Practices	Porous Pavement	1 of 1	0.92	0.625	0.29	JL53	020802080203	St. Julien's Creek	yes	36.787979	-76.316968	51550	00/2011	3/27/2014	SAT / Notes	Model reduction efficiencies assume permeable pavement w/o sand, veg., A/B soils & no underdrain. Available design drawings show no veg., 100% aggregate base above subgrade, and no visible underdrain. Check dam included in design for existing swale.	201403: needs maintenance (sweeping).
SJ-271-EEDB-01	pwd shops (former fire station)	north of building across street	operator	Category B: Dry Detention, Hydrodynamic Structure	Enhanced Extended Detention Basin	1 of 1	54.60	19.89	34.71	JL53	020802080203	St. Julien's Creek	yes	36.785144	-76.316818	51550	00/2012	3/27/2014	SAT	Model reduction efficiencies represent dry detention - scenario builder does not address "enhanced" detention (wetland plantings). Information based on 35% basis of design.	
YT-2072-BR-01	Navy Exchange Convenience Store	north of building	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2	0.60			YO68	020801070203	York River	yes	37.214113	-76.581450	51199	00/2010	3/12/2014	UNSAT	Drainage area based on preliminary design/proposal, not contained within available drawings. Provided model removal efficiencies represent the presence of an underdrain.	201403: needs repair, it appears most stormwater is bypassing bmp & going directly into curb inlet
YT-2072-BR-02	Navy Exchange Convenience Store	northwest of building	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	0.75			YO68	020801070203	York River	yes	37.214117	-76.581710	51199	00/2010	3/12/2014	UNSAT	Drainage area based on preliminary design/proposal.	201403: needs repair
YT-2090-EDB-01	Public Works Transportation shed	northwest of building	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 1				YO68	020801070203	York River	yes	37.240340	-76.545534	51199	07/2006	3/12/2014	SAT	Found & added 201305	
YT-2094-BR-01	Child Development Center	southeast of building, just northwest of parking lot, northeast of BR-02	operator	Category E: Filtering Practices	Bioretention Areas	1 of 3	0.51			YO68	020801070203	York River	yes	36.908372	-76.162629	51199	05/2009	3/12/2014	UNSAT	Drainage areas obtained from table 2.1 of Civil Stormwater Report. Drainage areas seem inconsistent between tables 2.1, 2.2 & 2.3. No reduction in the post development pollutant discharge is required by VSMH because the post development impervious area was less tan the average for Yorktown. TSS removal calcs were provided to obtain LEED credit for SW quality. Provided model removal efficiencies represent the presence of an underdrain.	201403: needs repair, large sinkhole at catch basin
YT-2094-BR-02	Child Development Center	southeast of building, just northwest of parking lot, southwest of BR-01	operator	Category E: Filtering Practices	Bioretention Areas	2 of 3	0.51			YO68	020801070203	York River	yes	37.908372	-75.162629	51199	05/2009	3/12/2014	SAT / Notes	Drainage areas obtained from table 2.1 of Civil Stormwater Report. Drainage areas seem inconsistent between tables 2.1, 2.2 & 2.3. No reduction in the post development pollutant discharge is required by VSMH because the post development impervious area was less tan the average for Yorktown. TSS removal calcs were provided to obtain LEED credit for SW quality. Provided model removal efficiencies represent the presence of an underdrain.	201403: no mulch remaining, needs maintenance
YT-2094-BR-03	Child Development Center	northwest of building, just northeast of service road	operator	Category E: Filtering Practices	Bioretention Areas	3 of 3	0.16			YO68	020801070203	York River	yes	37.215333	-76.573716	51199	05/2009	3/12/2014	SAT / Notes	Drainage areas obtained from table 2.1 of Civil Stormwater Report. Drainage areas seem inconsistent between tables 2.1, 2.2 & 2.3. No reduction in the post development pollutant discharge is required by VSMH because the post development impervious area was less tan the average for Yorktown. TSS removal calcs were provided to obtain LEED credit for SW quality. Provided model removal efficiencies represent the presence of an underdrain.	201403: overgrown, needs maintenance
YT-2094-EDB-01	Child Development Center	south of building, just southwest of parking lot	operator	Category C: Dry Extended Detention	Extended Detention Basin	1 of 2	1.22			YO68	020801070203	York River	yes	37.214280	-76.573350	51199	05/2009	3/12/2014	SAT	Drainage areas obtained from table 2.1 of Civil Stormwater Report. Drainage areas seem inconsistent between tables 2.1, 2.2 & 2.3. No reduction in the post development pollutant discharge is required by VSMH because the post development impervious area was less tan the average for Yorktown. TSS removal calcs were provided to obtain LEED credit for SW quality. Provided model removal efficiencies reprent "dry extended detention ponds".	
YT-2094-EDB-02	Child Development Center	northwest of building, just southwest of service road	operator	Category C: Dry Extended Detention	Extended Detention Basin	2 of 2	6.02			YO68	020801070203	York River	yes	37.215277	-76.574026	51199	05/2009	3/12/2014	SAT / Notes	Drainage areas obtained from table 2.1 of Civil Stormwater Report. Drainage areas seem inconsistent between tables 2.1, 2.2 & 2.3. No reduction in the post development pollutant discharge is required by VSMH because the post development impervious area was less tan the average for Yorktown. TSS removal calcs were provided to obtain LEED credit for SW quality. Provided model removal efficiencies reprent "dry extended detention ponds".	201403: overgrown, needs maintenance
YT-2094-SW-01	Child Development Center	northeast side of building	operator	Category E: Filtering Practices	Swale	1 of 2	0.05			YO68	020801070203	York River	yes	37.215301	-76.573210	51199	05/2009	3/12/2014	SAT / Notes	Drainage areas obtained from table 2.1 of Civil Stormwater Report. Drainage areas seem inconsistent between tables 2.1, 2.2 & 2.3. No reduction in the post development pollutant discharge is required by VSMH because the post development impervious area was less tan the average for Yorktown. TSS removal calcs were provided to obtain LEED credit for SW quality. Provided model removal efficiencies represent "bioswales".	201403: some ongoing erosion, needs maintenance/repair
YT-2094-SW-02	Child Development Center	southwest side of building	operator	Category E: Filtering Practices	Swale	2 of 2	0.67			YO68	020801070203	York River	yes	37.214805	-76.573865	51199	05/2009	3/12/2014	UNSAT	Drainage areas obtained from table 2.1 of Civil Stormwater Report. Drainage areas seem inconsistent between tables 2.1, 2.2 & 2.3. No reduction in the post development pollutant discharge is required by VSMH because the post development impervious area was less tan the average for Yorktown. TSS removal calcs were provided to obtain LEED credit for SW quality. Provided model removal efficiencies represent "bioswales".	201403: serious ongoing erosion, needs stabilization/repair
YT-2095-IB-01	Riverine Squadron 3 Operations Facility	northwest of building	operator	Category E: Filtering Practices	Infiltration Basin	1 of 1	0.96			YO68	020801070203	York River	yes	37.237858	-76.548156	51199	00/2010	3/12/2014	SAT	Timber lined "infiltration / detention basin". No drainage area indicated in drawings and stormwater calcs could not be found at this time. Provided removal efficiencies represent "infiltration practices w/ sand, veg." as detail indicates 8" sand layer.	
YT-2097-PP-01	Joint IED Defeat Organization Battle Courses	southwest of building, across street	operator	Category D: Infiltration Practices	Porous Pavement	1 of 1	0.19			YO68	020801070203	York River	yes	37.269084	-76.576163	51199	00/2010	2/21/2014	SAT	Found & added during 2012 inspections	
YT-2097-WEDP-01	Joint IED Defeat Organization Battle Courses	northwest of building, across street	operator	Category A: Wet Ponds and Wetlands	Wet Extended Detention Pond	1 of 2	9.84			YO68	020801070203	York River	yes	37.269690	-76.576056	51199	00/2010	2/21/2014	SAT	Found & added during 2012 inspections	
YT-2097-WEDP-02	Joint IED Defeat Organization Battle Courses	southwest of PP-01	operator	Category A: Wet Ponds and Wetlands	Wet Extended Detention Pond	2 of 2	1.82			YO68	020801070203	York River	yes	37.268973	-76.576340	51199	00/2010	2/21/2014	SAT	Found & added during 2012 inspections	
YT-2101-BR-01	Youth Center	east of building, northern of two	operator	Category E: Filtering Practices	Bioretention Areas	1 of 2	0.15			YO68	020801070203	York River	yes	37.215990	-76.572447	51199	04/2013	2/21/2014	SAT	Found & added 201305	
YT-2101-BR-02	Youth Center	east of building, southern of two	operator	Category E: Filtering Practices	Bioretention Areas	2 of 2	0.15			YO68	020801070203	York River	yes	37.215796	-76.572451	51199	04/2013	2/21/2014	SAT	Found & added 201305	

Appendix G – MS4 Facilities list for SWPPP Development

Installation	ACTIVITY_UIC	USE_CATEGORY_CO	USE_CATEGORY_DESC	USER_UNIT_TITLE	FACILITY_NO	FACILITY_USE	SHORE_CAPABILITY_AREA	SHORE_TASK
Dam Neck	N60191	14311	OPERATIONAL VEHICLE GARAGE	NAVSPECWARDEVGRU DAM NECK VA	313	OPERATIONAL VEHICLE GARAGE	BASE SUPPORT	GROUNDS & STREET
NAVMEDCEN	N57095	21920	PAVMT/GRNDS EQUIP SHED	NAVSUPPACT HAMPTON ROADS VA	107	PAVMT/GRNDS EQUIP SHED	BASE SUPPORT	GROUNDS & STREET
NAVMEDCEN	N57095	21420	AUTO VEHICLE MAINT NONCOMB	NAVFAC MIDLANT NORFOLK VA	107	TRANSPORTATION	BASE SUPPORT	GROUNDS & STREET
NAVMEDCEN	N57095	21440	VEHICLE HOLDG SHED	NAVSUPPACT HAMPTON ROADS VA	107	VEHICLE HOLDING	BASE SUPPORT	GROUNDS & STREET
Dam Neck	N60191	21910	PUBLIC WORKS SHOP	NAVSPECWARDEVGRU DAM NECK VA	302	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Fort Story	N50092	21977	PW MAINTENANCE STORAGE	JNTEXPBASE LITTLE CREEK FS VA	224	STORAGE FACILITY	BASE SUPPORT	GROUNDS & STREET
NAVMEDCEN	N57095	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	273	FACLITIES MANAGEMENT	BASE SUPPORT	GROUNDS & STREET
Dam Neck	N60191	21440	VEHICLE HOLDG SHED	NAVFAC MIDLANT NORFOLK VA	616		BASE SUPPORT	GROUNDS & STREET
NAVMEDCEN	N57095	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	273	PW STORAGE	BASE SUPPORT	GROUNDS & STREET
NAVMEDCEN	N57095	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	277	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Fort Story	N50092	12317	OVERHEAD COVER, MISC	JNTEXPBASE LITTLE CREEK FS VA	106	OVERHEAD PROTEC	BASE SUPPORT	GROUNDS & STREET
NAVMEDCEN	N57095	83340	GARBAGE HOUSE	NAVSUPPACT HAMPTON ROADS VA	289	RECYCLING CENTER	BASE SUPPORT	ENVIRONMENTAL MGT FACILITIES
Dam Neck	N60191	14311	OPERATIONAL VEHICLE GARAGE	NAVSPECWARDEVGRU DAM NECK VA	372	OPERATIONAL VEHICLE GARAGE	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21420	AUTO VEHICLE MAINT NONCOMB	CENSECFOR NORFOLK	3514	AUTO VEHICLE MAINT NONCOMB	BASE SUPPORT	GROUNDS & STREET
Dam Neck	N60191	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	552	PEST CONTROL OFFICE/STORAGE	BASE SUPPORT	GROUNDS & STREET
Dam Neck	N60191	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	553	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
Dam Neck	N60191	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	613	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
Dam Neck	N60191	21920	PAVMT/GRNDS EQUIP SHED	NAVFAC MIDLANT NORFOLK VA	624	PAVMT/GRNDS EQUIP SHED	BASE SUPPORT	GROUNDS & STREET
Oceana	N60191	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	721	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Fort Story	N50092	21910	PUBLIC WORKS SHOP	PRIVATE ORGANIZATIONS	1041	MAINTENANCE SHOP	BASE SUPPORT	GROUNDS & STREET
Fort Story	N50092	21977	PW MAINTENANCE STORAGE	JNTEXPBASE LITTLE CREEK FS VA	1115	BUNKER-INACTIVE	BASE SUPPORT	GROUNDS & STREET
Oceana	N60191	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	3034	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Oceana	N60191	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	3035	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	3107	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	3165	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	3174	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	3292	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	3293	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	3653	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21420	AUTO VEHICLE MAINT NONCOMB	NAVFAC MIDLANT NORFOLK VA	3661	AUTO VEHICLE MAINT NONCOMB	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21925	PW EXPENDBL/WORK IN PROCES	NAVFAC MIDLANT NORFOLK VA	3664	PW EXPENDBL/WORK IN PROCES	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	3895	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	3903	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
NAVSTAN	N62688	21420	AUTO VEHICLE MAINT NONCOMB	NAVFAC MIDLANT NORFOLK VA	A127	AUTO VEHICLE MAINT NONCOMB	BASE SUPPORT	GROUNDS & STREET
NAVSTAN	N62688	21420	AUTO VEHICLE MAINT NONCOMB	NAVFAC MIDLANT NORFOLK VA	LP20	AUTO VEHICLE MAINT NONCOMB	BASE SUPPORT	GROUNDS & STREET
NAVSTAN	N62688	21420	AUTO VEHICLE MAINT NONCOMB	NAVFAC MIDLANT NORFOLK VA	A80	AUTO VEHICLE MAINT NONCOMB	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	3165B	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	3165D	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	3165E	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
NAVSTAN	N62688	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	SP82	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Little Creek	N50092	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	3165F	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
NAVSTAN	N62688	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	SP82	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
NAVSTAN	N62688	21910	PUBLIC WORKS SHOP	NAVFAC MIDLANT NORFOLK VA	LP131	PUBLIC WORKS MIXING SHOP	BASE SUPPORT	GROUNDS & STREET
Oceana	N60191	21920	PAVMT/GRNDS EQUIP SHED	NAVFAC MIDLANT NORFOLK VA	832	PAVMT/GRNDS EQUIP SHED	BASE SUPPORT	GROUNDS & STREET
NAVSTAN	N62688	21420	AUTO VEHICLE MAINT NONCOMB	NMC CED DET SEWELLS POINT	NM37	AUTO VEHICLE MAINT NONCOMB	BASE SUPPORT	GROUNDS & STREET
NSA HR	N57095	21910	PUBLIC WORKS SHOP	ARMY ACTIVE	SC401	PUBLIC WORKS SHOP	BASE SUPPORT	GROUNDS & STREET
Oceana	N60191	21977	PW MAINTENANCE STORAGE	NAVFAC MIDLANT NORFOLK VA	828	PW MAINTENANCE STORAGE	BASE SUPPORT	GROUNDS & STREET
Oceana	N60191	21420	AUTO VEHICLE MAINT NONCOMB	NAVFAC MIDLANT NORFOLK VA	830		BASE SUPPORT	GROUNDS & STREET

Appendix H – ECATTS Training Course Catalog



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Waste Management Guidelines for Building Maintenance Waste

Waste Management Guidelines for Building Renovation Waste
Waste Management Guidelines for Carpentry Waste
Waste Management Guidelines for Landscaping Waste
Waste Management Guidelines for Carpet and Tile Installation Waste
Waste Management Guidelines for Electrical Waste
Waste Management Guidelines for Fire Alarm System Repair Waste
Waste Management Guidelines for Laboratory and Pharmacy Waste
Waste Management Guidelines for Paint Waste
Waste Management Guidelines for Small Engine Repair Maintenance Waste
Waste Management Guidelines for Submarine Maintenance Waste
Wastewater
Water
Welding
Wetlands
Wetlands General Awareness
Window Glazing

INTRODUCTION

Welcome to Our Catalogue of Online Training

This 2013 catalogue provides an overview of the large inventory of online training we have to offer for Environmental, Safety, and Occupational Health education. All training shown in our comprehensive list is designed and built according to our clients' specific needs, and can be customized for any organization's structure or individual requests.

All of our training is web–based and available 24/7/365 for your ease and convenience. *Take your training when you like—where you like!* Plus, most courses in this state–of–the–art Learning Management System are designed to be completed in under 20 minutes, giving you training at a fraction of the cost and lost man hours of other training options.

You will see that each course offers a detailed description of what is entailed, customized versions already available and an approximation of time required to complete the course. After each course is an assessment to test your understanding of the material and a certificate of completion once the training is passed. Images, charts, graphs and additional links are included within the training material to further strengthen the learning process.

All training within this catalogue is also available for further customization. We want to meet your organization's unique needs and welcome additional training development requests.

Contact us for more information on how you can get started today.

Call **1.866.730.4253** or email **icldinfo@att.net**.

TRAINING DESCRIPTIONS

This section contains descriptions of our online training courses. All courses are offered as listed below and are also available in customized formats to fit your organization's needs.

NEW! **AEROSPACE NESHAP**

This training series consists of six courses and is a familiarization with the air pollution regulation known as "Aerospace NESHAP" (National Emission Standard for Hazardous Air Pollutants). Training is targeted towards managers, operators, paint supervisors, and anyone else whose daily functions might be affected by NESHAP regulations.

versions: Installation Specific
average completion time: 2 hours

AFFIRMATIVE PROCUREMENT

Targeted towards personnel with jobs that include purchasing and project planning, this course provides an overview of affirmative procurement, its requirements, exemptions and EPA designated items.

versions: General, General Overseas, Greece, Japan, Korea, Alabama
average completion time: 10 minutes

AIR/EMISSIONS

This course offers an overview of air and emissions regulations, regional haze, general air pollutant information, air permit requirements, types of air emissions sources, and hazardous air pollutants.

versions: AL, AK, AR, AZ, CA, CO, CT, DE, DC, FL, GA, Greece, Guam, Navy, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, SC, SD, Spain, TN, TX, United Kingdom, Air Force, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 20 minutes

AIR/EMISSIONS FOR UNIT ENVIRONMENTAL COORDINATORS

This training is targeted towards Unit Environmental Coordinators (UECs) who must comply with air quality rules and regulations. Overview covers the responsibilities of the UEC, as well as information on the reduction of emissions of particulate matter and fugitive emissions.

versions: General, Japan, Korea, United Kingdom
average completion time: 10 minutes

AIRCRAFT MAINTENANCE

Designed to target personnel who perform aircraft maintenance activities, this offers a brief awareness training of the environmental rules and regulations that meet safety compliance.

versions: DoD, General Overseas, Greece, Italy, Japan, Korea, Spain, United Kingdom
average completion time: 5 minutes

AIR FORCE ENVIRONMENTAL MANAGEMENT INFORMATION SYSTEM (AF–EMIS)
This in-depth series of 20 training courses provides a familiarization with the AF–EMIS, the Air Force Hazardous Material Management Process (HMMP), and the relationship between the two. This series targets personnel who authorize, procure, issue, use or dispose of HAZMAT materials and those who manage, monitor or track any HAZMAT processes. Topics covered include awareness, identification and management of Hazardous Materials, and overall responsibilities and duties.

versions: Air Force
average completion time: 5 hours

AS LOW AS REASONABLY ACHIEVABLE (ALARA)
This course provides information on minimizing exposure to occupationally occurring ionizing radiation. Overview includes review of the ALARA principle, sources and types of radiation, effects and risks, measures to minimize exposure, procedures for radiation emergencies, and the personnel dosimetry program.

versions: Air Force
average completion time: 25 minutes

ARC FLASH PERSONAL PROTECTIVE EQUIPMENT
This course focuses on arc flash and PPE safety and methods used for determining arc flash PPE requirements.

versions: Air Force
average completion time: 15 minutes

ASBESTOS
Targeting personnel who perform activities that may encounter asbestos, this training provides an overview of asbestos information, federal regulations, projects affected by asbestos law, asbestos containing material, inspections, notification requirements, and information on the removal and disposal of asbestos.

versions: AL, AK, AZ, AR, Bahrain, CA, CO, CT, DoD, DE, DC, FL, GA, General Overseas, Greece, Guam, Navy, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

NEW! **ASBESTOS AWARENESS**
Targeted towards all employees who are potentially exposed to asbestos in the work area, this training helps fulfill the requirements of 29 CFR 1910.1001, OSHA's Asbestos Standard. Topics covered include definitions and descriptions of asbestos, common uses, routes of exposure, health hazards, signs and symptoms of exposure, preventative measures for exposure, supervisor responsibilities, and employee responsibilities.

versions: Installation Specific
average completion time: 10 minutes

ASSIGNMENT OF UNIT ENVIRONMENTAL COORDINATOR
Designed for Air Force Unit Environmental Coordinators, this course covers the requirements, selection and tenant units, as well as overall guidelines on assigning the Unit Environmental Coordinator.

versions: Air Force
average completion time: 10 minutes

NEW! **BENZENE AWARENESS**

Targeted towards all employees who are potentially exposed to benzene in the work place, this training helps fulfill the requirements of 29 CFR 1910.1028, OSHA's Benzene Standard. Topics include the definitions and descriptions of benzene, common uses, routes of exposure, health hazards, signs and symptoms of exposure, preventative measures for exposure, and supervisor and employee responsibilities.

versions: Installation Specific
average completion time: 10 minutes

BRICK OR BLOCK MASONRY

This course offers a brief overview of the environmental requirements, rules and regulations for personnel who perform brick and block masonry activities. Topics covered include overall environmental and human safety.

versions: DoD, General Overseas, Greece, Japan, Korea
average completion time: 5 minutes

BROWN TREE SNAKES

Designed specifically for those living and working in Guam, this course educates on the problems resulting from the rapid spread of this invasive species on Guam and other Pacific Islands. Topics include general information on identifying the Brown Tree Snakes (BTS) and how to prevent the spread and infestation of other areas by incidental transport in aircraft and cargo.

versions: Guam
average completion time: 20 minutes

BUILDING, CONSTRUCTION, DEMOLITION OR RENOVATION

Training for this course covers environmental requirements that affect building, construction, demolition, or renovation jobs and activities, as well as construction and demolition waste considerations, lead-based paint surfaces and how to prepare for solid waste inspection.

versions: Air Force, DoD, General Overseas, Greece, Italy, Japan, Korea, Navy, PACAF, Spain, United Kingdom, USA,
average completion time: 5 minutes

NEW! **CADMIUM AWARENESS**

Targeting those who are potentially exposed to cadmium in the work place, this training helps fulfill the requirements of 29 CFR 1910.1027, OSHA's Cadmium Standard. Topics include definitions and descriptions of cadmium, common uses, routes of exposure, health hazards, signs and symptoms of exposure, preventative measures for exposure, and supervisor and employee responsibilities.

versions: Installation Specific
average completion time: 10 minutes

CARPENTRY

Designed specifically for personnel who perform carpentry activities, this course provides a brief awareness of compliance requirements relating to environmental rules and regulations.

versions: Bahrain, DoD, General, General Overseas, Greece, Japan, Korea, Spain, United Kingdom
average completion time: 5 minutes

NEW! **CHROMIUM VI AWARENESS**

This training helps fulfill the requirements of 29 CFR 1910.1026, OSHA's Chromium VI Standard. Designed for employees who are potentially exposed to Chromium VI in the work place, this course covers the definitions and descriptions of Chromium VI, common uses, routes of exposure, health hazards, signs and symptoms of exposure, preventative measures for exposure, and supervisor and employee responsibilities.

versions: Installation Specific
average completion time: 10 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS)

This is an in-depth training series consisting of 39 courses that provide an overview of how to use CEMAS. Targeting new and existing CEMAS users, this training covers user rights, fund cites and organization codes, variables, how to add a noun, new noun maintenance, material requisitions, award purchase order, receive item, assign holding area, material complete notification, CPPG purchase, store maintenance main store, store maintenance forward stores, store maintenance store reorder, material issue, non CEMAS GPC purchase, material returns, on hand material transfer, non material GPC purchase, Bill of Material (BOM) close-out, GPC reconciliation, material distribution, prime vendor interface, Standard Base Supply System (SBSS) interface, funds flow and monitoring, inventory adjustments, work flow, transaction history file, monthly management summary, material acquisition workload, END of Session (EOS) processing, and end of session products.

versions: Air Force
average completion time: 12 hours

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): INTRODUCTION

The first of the courses, this "what" and "how" introductory training covers the welcome and general menu options for CEMAS.

versions: Air Force
average completion time: 10 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): USER RIGHTS

This course covers the CEMAS identification process and CEMAS user rights. Topics covered include initial assignment, adding identification records, data field review, security access codes, and modifying or deleting a record.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): FUND CITES AND ORGANIZATION CODES

This training teaches how to load funding documents into CEMAS, as well as adding an organization code, the two types of funding documents, and attaching funds to the PFMR or FCA record.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): VARIABLES
This course provides an overview of the CEMAS Base Variable Records, including options on the Base Variables Options screen, how to add/delete/modify Base Variable Records, how to obtain an Audit Key, how to update the base address, and how to add or update the printer variables.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): (HOW TO) ADD A NOUN
This training offers an overview of how to add items the Noun Dictionary, "what" the Noun Dictionary is, accessing a Noun Record, adding a Noun Record, adding adjectives and synonyms, and the Noun Addition and Research Screen.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): (NEW) NOUN MAINTENANCE
This training offers an overview of "what" the Noun Dictionary is, how it works, how to find/modify an item in the Noun Dictionary, coding an item for deletion, and un–coding a deleted item.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): MATERIAL REQUISITIONS, PART 1
Part 1 of two courses, this teaches an overview of the CEMAS requisitioning process for a Bill of Materials, the creation and adding a line item to a Bill of Materials, using the Noun Dictionary for the Bill of Materials, and how to complete additional fields.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): MATERIAL REQUISITIONS, PART 2
Part 2 of two courses, this teaches an overview of the process of requisitioning items or firming a Bill of Materials. Additional topics include how to review a Bill of Materials, assign a Required Delivery Date, check funds records, process a Firm Stimulation, check the status and information found on the Firm Bill of Materials Transaction Report, the Bill of Material Inquiry Print, and the Abstract.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): AWARD PURCHASE ORDER
This course teaches an understanding of "what" the Base Contracting manual award process is, how to access purchasing order records, modify records, print a Purchase Order Award Notice, and review the FCA balances related to a purchase order.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): RECEIVE ITEM
This course covers the overall process for receiving items into the CEMAS inventory, accessing the Bill of Materials for an item, modifying a record, receiving an item, and printing a Property Movement Document.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): ASSIGN HOLDING AREA
This course provides an overview of assigning a location in the CEMAS Holding Area when items are received, inquiring about items in that holding area, locating an item, updating a holding area location, and reading, assigning and understanding a BIN number.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): MATERIAL COMPLETE NOTIFICATION
This course teaches an optional method of notification when a Bill of Materials is complete and ready for issue from the Holding Area. Topics covered include CEMAS End of Session, CEMAS End of Day, Daily Material Completed Bill of Materials List, modification of tracking and status fields in the Active CE Work Order/Request screen, tracking indicators, and updating the status codes of materials.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): GPC PURCHASE, PART 1
Part 1 of two courses, this teaches the process for using the International Merchant's Purchase Authorization Card (IMPAC) or Government Purchase Card (GPC), as well as how to obtain an IMPAC, ordering an IMPAC item, and how IMPAC items affect the Bill of Materials.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): GPC PURCHASE, PART 2
Part 2 of two courses, this teaches an overview of awarding and receiving International Merchant's Purchase Authorization Card (IMPAC) items using a procedure that is unique to CEMAS IMPAC processing. Additional topics include accessing purchase order records for IMPAC, updating multiple purchase orders on the Quick Update of Credit Card Purchases screen, adding a vendor to the Vendor Selection screen, and updating the Receiving screen.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): STORE MAINTENANCE MAIN STORE
This training provides an overview of the CEMAS Store concept, plus adding or deleting individual items for the Main Store, calculating initial stock levels, overriding CEMAS calculated levels, and modifying records for store reorders.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): STORE MAINTENANCE FORWARD STORE

This course teaches an overview of establishing and operating a Forward Store and how it can be used for adding, deleting and inquiring about items in the stores.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): STORE MAINTENANCE STORE REORDER

Designed to provide an overview of restocking the Main Store and the Forward Stores, this course covers the three methods for ordering store stock: Automatic Main Store Reordering, On–line Store Reordering, and Line Item Requisition.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): MATERIAL ISSUE

This course provides an overview of issuing materials to the CEMAS customers out of the Holding Area and the Main Store, searching the Noun Dictionary for Material Issue and adding multiple items to an issue.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): NON–CEMAS GPC PURCHASE

This training offers an overview of purchasing items using Non–CEMAS Material procedures and an International Merchant's Purchase Authorization Card (IMPAC) or Government Purchase Card (GPC) without first requisitioning the items through CEMAS. Other topics include when to use Non–CEMAS Material procedures and IMPAC for purchasing an item, what steps are included in this type of transaction, and how the transaction affects a funding document and Bill of Materials.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): MATERIAL RETURNS

This course covers the process for returning materials, specifically to the Holding Area, the Forward Stores, and how these returns affect the Bill of Materials.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): ON–HAND MATERIAL TRANSFER

Designed to provide an overview of how to use "on–hand" assets to satisfy immediate requirements using CEMAS, this course covers transferring, borrowing and returning items from one work order to another.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): NON–MATERIAL GPC PURCHASE

This training offers an overview of using an International Merchant's Purchase Authorization Card (IMPAC) or Government Purchase Card (GPC) for purchases that are not material related. Other topics include how to obtain services with the IMPAC, committing funds for IMPAC transactions, how to obligate funds for IMPAC transactions, and how IMPAC material and non–material transactions affect funding documents.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): BILL OF MATERIAL (BOM) CLOSE–OUT

This training gives an overview of the process of closing out a BOM when a work requirement has been completed, including a manual and automated close–out process and what to do when a BOM does not successfully close.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): GPC RECONCILIATION

This course educates on the the process of reconciling bank statements after using an International Merchant's Purchase Authorization Card (IMPAC) or Government Purchase Card (GPC). Other topics include how to review individual line items on a record, what to do if a transaction does not match the bank statement, reconciling a record, and what to do if the purchase does not appear for reconciliation.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): MATERIAL DISTRIBUTION

This course covers the material distribution process; specifically, monthly distribution, options for programmatic distribution, how the distribution process is affected by International Merchant's Purchase Authorization Card (IMPAC) service charges, options on the Material Distribution Schedule, how it affects the budget process, and the summarized cost center assignments.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): DLA—PRIME VENDOR INTERFACE, PART 1

Part 1 of two courses, this offers an overview of the Prime Vendor Defense Logistics Agency (DLA) contract. Topics include the advantages of the program, initiating the process, adding the Prime Vendor file, editing contract information, and the DLA–Prime Vendor Interface.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): DLA—PRIME VENDOR INTERFACE, PART 2

Part 2 of two courses, this offers a detailed overview of the Prime Vendor program. Topics include interface transaction codes, using the Buying Problem Selection screen, how to review a quote from a vendor on CEMAS, problem solving, and purchasing decisions from a Prime Vendor.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): SBSS—STANDARD BASE SUPPLY SYSTEM INTERFACE

This training provides an overview of the basics of SBSS, such as how to retrieve a file for processing, updating a purchase order, how to determine if files are missing or if they have already been processed and what to do with unprocessed SBSS files.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): FUNDS FLOW AND MONITORING

This course covers how different processes affect the funding documents. Specifically, organizational records and Fund Cite Authority records, terms commonly used in the CEMAS funds process, how various transactions affect funds, Project Fund Management Records, and the CEMAS products that keep up–to–date fund status records.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): INVENTORY ADJUSTMENTS, PART 1

Part 1 of two courses, this teaches the process of how to make inventory adjustments. Topics include the Past Due Inventory Product, Items to be Inventoried Product, setting inventory options, entering first counts from inventories, scheduling a Special Inventory, and the Store Items Pending Inventory product.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): INVENTORY ADJUSTMENTS, PART 2

Part 2 of two courses, this provides a detailed overview of the inventory adjustment process. Topics include how to update inventory quantities, researching inventory discrepancies, how to do an inventory adjustment, using the Inventory Checklist, and the products involved in the inventory process.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): WORK FLOW

This is a general course providing an overview of the steps in the CEMAS work flow. Topics include identifying materials, how and by whom a delivery date is assigned, the steps involved in firming a Bill of Material, how materials are purchased, the steps involved in receiving and storing materials, and issuing materials and closing out the work order.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): TRANSACTION HISTORY FILE

This training covers all responsibilities of the Transaction History file, such as keeping track of status and activities of all CEMAS Stock List numbers (CSLs). Other topics include accessing data fields on the Transaction History File Inquiry screen and how to trace balances by transaction history.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): MONTHLY MANAGEMENT SUMMARY

This course provides Best Management Practices (BMPs) for CEMAS operations. Details covered include how to select a Management Summary for review, information on data type within the Monthly Management Summary, understanding data on the Summary screens, and how to effectively use the Summary screens to ensure inventory accuracy.

versions: Air Force
average completion time: 10 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): MATERIAL ACQUISITION WORKLOAD, PART 1

Part 1 of two courses, this training teaches effective use and processes of the Material Acquisition Workload screen, such as options available on the Selection screen, how to review and manipulate a Bill of Materials (BOM), how to assign a clerk to a BOM or review BOMs assigned to a particular clerk, and how to review a BOM that has been in the system.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): MATERIAL ACQUISITION WORKLOAD, PART 2

Part 2 of two courses, this training offers an overview of line item requisitions in the Workload process. Topics covered include the Pending Material Ordering Review Options screen, how to review quotes from the Buying Problem Selection screen, how to review newly established, un–researched Noun Records, and how to review items added to firmed Bills of Materials (BOMs) that need purchase authorization.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): END OF SESSION (EOS) PROCESSING, PART 1

Part 1 of two courses, this provides an overview of the Interim Work Information Management System (IWIMS) End of Session (EOS) process. Other topics include how to establish the CEMAS Run Frequency, how to schedule an "as required" report, IWIMS End of Session Menu, inhibiting log–ons, and suspending interface processes.

versions: Air Force
average completion time: 20 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): END OF SESSION (EOS) PROCESSING, PART 2

Part 2 of two courses, this is a continuation of the CEMAS: EOS Processing, Part 1 training. Additional information is provided on the Interim Work Information Management System (IWIMS) End of Session (EOS) process. Other topics include File Share Server Utilities, shutting down sharers and running the EOS.

versions: Air Force
average completion time: 15 minutes

CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS): END OF SESSION (EOS) PRODUCTS

This training covers the CEMAS End of Session (EOS) Products, how to access them, set the retention frequency and how to determine when printing is needed for EOS Products.

versions: Air Force
average completion time: 20 minutes

COMMAND DUTY OFFICER (CDO) ENVIRONMENTAL TRAINING I

This training is an introduction to the general environmental duties and responsibilities of the CDOs. Topics covered include regulatory requirements, spill response actions, stormwater pollution prevention, hazardous waste, recycling, odors, air emissions, and animals.

versions: Installation Specific
average completion time: 15 minutes

COMMAND DUTY OFFICER (CDO) ENVIRONMENTAL TRAINING II

This training provides an introduction to the general environmental duties and responsibilities of the CDOs. Topics include regulatory requirements, spill response actions, storm drain sluice gate valves, stormwater outfall locations, stormwater pollution prevention, hazardous waste, recycling, odors, and animals.

versions: Installation Specific
average completion time: 15 minutes

CONFINED SPACES AWARENESS

Targeted towards personnel who may encounter confined spaces, this training provides an overview of confined spaces requirements. Topics include requirements for identifying, testing, classifying, and placing signage for confined spaces, hazards associated with confined spaces, responsibilities of entrants and attendants, and emergency and rescue procedures.

versions: Air Force
average completion time: 15 minutes

CONSERVATION

This course provides an overview of the basics; specifically, for personnel who require conservation awareness. Topics covered include energy, water, fuel and natural resource conservation.

versions: Alabama, Bahrain, DoD, General Overseas, Greece, Idaho, Italy, Japan, Korea, Spain, United Kingdom
average completion time: 10 minutes

CONTRACTOR: INSTALLATION SPECIFIC ENVIRONMENTAL REQUIREMENTS
This is a unique course covering Installation Specific Environmental Requirements for Construction Contractors. This course takes an in–depth look at Contractor training and offers information specific to a facility, installation, or region to ensure Contractor knowledge and understanding.

versions: this training is unique for every organization
average completion time: time varies and is dependent on the organization

CONTRACTOR: MARINE COATING OPERATIONS
This training is an introduction to local rules, regulations, and record-keeping requirements applying to marine coating operations.

versions: Installation Specific
average completion time: 20 minutes

CORROSION CONTROL
This course provides a general overview of corrosion control, such as waste disposal, safety, non–destructive testing, cathodic protection, and protective coatings.

versions: Air Force, Alabama, General Overseas, Greece, Idaho, Japan, Korea
average completion time: 15 minutes

DIGGING IN THE GROUND
Designed for personnel who perform activities which involve digging in the ground, this particular course focuses on requirements, rules and regulations for environmental and safety compliance.

versions: General Overseas, Greece, Italy, Japan, Korea, United Kingdom, USA
average completion time: 5 minutes

DOT HAZMAT REGULATIONS
This course provides an overview of DOT regulations regarding hazardous materials. Topics covered include training, security awareness, hazard classes, appropriate marketing, packaging, and record–keeping.

versions: General
average completion time: 20 minutes

DRINKING WATER
This training covers drinking water rules and regulations, including permits for public water systems, monitoring and reporting contaminants in drinking water, backflow and backflow prevention, disinfection when line breaks occur, lead and copper in drinking water, and system inspections.

versions: AL, AK, AZ, AR, Army, Bahrain, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, Guam, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

NEW! **EESOH–MIS–HAZARDOUS MATERIALS**

This course provides training and demonstrations on using the EESOH-MIS system. Details include managing HAZMAT inventories, searching for MSDSs and creating and updating Process Authorization records. EESOH-MIS replaces the AF-EMIS HAZMAT tracking system and is accessed via the Air Force Portal. Training is targeted towards anyone who uses the EESOH-MIS system.

versions: Installation Specific
average completion time: 20 minutes

ELECTRICAL

Designed for personnel who perform activities on electrical systems, this brief awareness training covers environmental rules and regulations for environmental and safety compliance.

versions: General, USA
average completion time: 5 minutes

EMERGENCY PLANNING AND COMMUNITY RIGHT–TO–KNOW ACT (EPCRA)

This course serves as an introduction to EPCRA. Targeting personnel working in areas that have TRI reporting or EPCRA compliance tracking responsibilities, this training covers provisions of EPCRA, state and local committees, emergency planning, hazardous chemical reporting requirements, toxic chemical release inventory, and non–compliance penalties.

versions: USA
average completion time: 10 minutes

ENVIRONMENTAL COMPLIANCE AND ENFORCEMENT

This course teaches an overview of environmental compliance and enforcement through basic environmental legislation. Other topics include audits and inspections, the inspection process, government agency enforcement actions, penalties for non–compliance, and where to seek compliance help.

versions: Air Force, AL, AK, CO, General Overseas, Greece, ID, Italy, Japan, Navy, Korea, Marines, NC, OK, Spain, United Kingdom
average completion time: 15 minutes

ENVIRONMENTAL JUSTICE (EJ)

This course serves as an introduction to Environmental Justice (EJ) and takes a look at the origins of the Environmental Justice movement, Federal actions to address EJ and policies that have already been put into action.

versions: General
average completion time: 15 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)

This training covers a general overview of Environmental Management Systems (EMS), plus the EMS cycle, keys to a successful EMS, major concepts of an EMS, important facts about EMS, and who needs to know about an EMS.

versions: Air Force, CT, General, Greece, HI, ID, IL, Italy, Japan, Navy
average completion time: 20 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER

This Air Force training is an in–depth, 2 hour series consisting of 10 training courses that cover an EMS overview and the responsibilities as a member of the Cross Functional Team (CFT). Additional topics include Environmental Policy, EMS scope, the Cross Functional Team, identifying aspects, scoring environmental impacts, environmental objectives and targets, Environmental Management Plans, monitoring and measurement, EMS assessment, records management, management review, and maintaining your EMS.

versions: Air Force
average completion time: 2 hours

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: INTRODUCTION

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This introduction serves as an overview of what the Environmental Management System (EMS) Practitioner training series covers and for whom the training is intended.

versions: Air Force
average completion time: 10 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: ENVIRONMENTAL POLICY, EMS SCOPE AND THE CROSS FUNCTIONAL TEAM

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This course provides an overview on background information for the rest of the courses in the series, as well as Environmental Policies, EMS Implementation plans, who makes up a CFT, and the CFT responsibilities.

versions: Air Force
average completion time: 10 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: IDENTIFYING ASPECTS

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This course covers the process for creating an environmental aspects inventory, the development of this list and why it is important to an installation's EMS and the role as a CFT member to ensure the EMS is implemented.

versions: Air Force
average completion time: 15 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: SCORING ENVIRONMENTAL IMPACTS

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This training goes over the process of determining impacts to the environmental, scoring the impact and scoring criteria, how to assess the relative cost, and labeling significant aspects.

versions: Air Force
average completion time: 10 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: ENVIRONMENTAL OBJECTIVES AND TARGETS

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This course educates on the process of setting environmental objectives and targets for an installation's specific needs. Other topics include issues to consider when developing these objectives and targets, using performance indicators, and how objectives and targets are formalized for installations.

versions: Air Force
average completion time: 10 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: ENVIRONMENTAL MANAGEMENT PLANS

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This course educates on the process for developing Environmental Management Plans (EMPs), what an EMP is, why EMPs are needed, and what documentation is needed.

versions: Air Force
average completion time: 10 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: MONITORING AND MEASUREMENT

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This course provides an overview of the process of monitoring and measuring how successful the Environmental Management System (EMS) program is within an installation, including tracking performance measures, conducting compliance assessments, tracking operational controls, and tracking equipment calibration.

versions: Air Force
average completion time: 10 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: MONITORING AND MEASUREMENT

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This course educates on the process of conducting a good Environmental Management System (EMS) assessment. Training includes how to prepare for an EMS assessment, how to conduct an EMS assessment, how to document and follow up on an EMS assessment, and how to implement the corrective action process.

versions: Air Force
average completion time: 20 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: RECORDS MANAGEMENT

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This training covers proper documentation of an installation's EMS program, including the difference between a document and an official record, and the responsibilities as a Cross Functional Team (CFT) member in keeping appropriate EMS records.

versions: Air Force
average completion time: 10 minutes

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PRACTITIONER: MANAGEMENT REVIEW AND MAINTAINING YOUR EMS

This training targets Air Force CFT members and the personnel who develop the installation's EMS program. This course is an overview of the management review process and steps towards keeping the EMS updated. Additional topics include Environmental Policy, EMS scope, the Cross Functional Team, identifying aspects, scoring environmental impacts, environmental objectives and targets, Environmental Management Plans, monitoring and measurement, EMS assessment, records management, management review, and maintaining your EMS.

versions: Air Force
average completion time: 10 minutes

ENVIRONMENTAL LAWS AND LIABILITY

This training provides an overview of the federal laws developed to protect the environment and human health from hazardous chemicals and materials with education on the National Environmental Policy Act, Clean Air Act, Clean Water Act, Resource Conservation and Recovery Act, CERCLA, Pollution Prevention Act, and worker safety.

versions: General
average completion time: 20 minutes

NEW! **ENVIRONMENTAL SUSTAINABILITY TRAINING: AWARENESS**

This training provides an understanding of what sustainability means to an organization and discusses issues and ways to integrate sustainability into an organization's planning and budgeting of operations. A historical perspective is provided, pollution prevention initiatives are reviewed, the triple bottom line concept is introduced, and the importance of communication to educate and involve everyone in making the shift toward an organization–wide sustainability program is emphasized. Case studies provide examples and lessons learned by government and business.

versions: General
average completion time: 40 minutes

NEW! **ENVIRONMENTAL SUSTAINABILITY TRAINING: FOUNDATION FOR ESTABLISHING A SUSTAINABLE ORGANIZATION**

This training provides an overview of several sustainability efforts underway in communities, organizations and industry. Topics include Life Cycle Assessments, Environmental Impact Assessments and Green Chemistry. The Sustainability Wheel is introduced as a model to determine an organization's status in meeting sustainability efforts and challenges. Videos are incorporated to enhance the training.

versions: General
average completion time: 60 minutes

NEW! **ENVIRONMENTAL SUSTAINABILITY TRAINING: SUSTAINABILITY IMPLEMENTATION**

This training explores the processes that businesses can use to implement sustainability. Topics include the six research themes of sustainability identified by the EPA. Videos are incorporated for enhanced training.

versions: General
average completion time: 40 minutes

NEW!

ENVIRONMENTAL SUSTAINABILITY TRAINING: SUSTAINABILITY LEADERS

This training provides basic information on the state of the sustainability movement and reviews recent executive orders and ISO 14000 Standards. It explores the failure of traditional organizations to communicate across "information silos" and introduces ways that multi–functional aspects of an organization can work together for positive interaction and improvement. This training also covers leadership skills needed for effective sustainable leadership and it addresses the attributes and roles of sustainability leaders.

versions: General
average completion time: 30 minutes

ESOHCAMP FOR UNIT ENVIRONMENTAL COORDINATORS

The Environmental, Safety, Occupational, and Health Compliance Assessment Management Program (ESOHCAMP) course is targeted towards the Unit Environmental Coordinators (UECs) responsible for providing direction in preparing for environmental management assessments. This course outlines the reasons for conducting assessments, their frequency, responsibilities of the UEC in preparing for an assessment, and the importance of assessments in preparing for regulatory inspections and in preventing fines.

versions: Air Force, United Kingdom
average completion time: 10 minutes

ETHICS FOR ENVIRONMENTAL PROFESSIONALS

Targeting DoD employees, this course provides an overview of the Government rules in which to comply. Topics include guidelines on avoiding conflicts of interest and property handling issues such as gifts, travel, personal and official relations, financial disclosure reports, use of Government resources and time, information disclosure, and post–Government employment restrictions.

versions: DoD, Air Force
average completion time: 20 minutes

FACILITY MANAGER

Targeting newly appointed and current facility managers, this course provides an overview on the purpose of Civil Engineering (CE), the duties and responsibilities of a facility manager and the tasks necessary to work efficiently and increase overall customer satisfaction. Additional topics include general Civil Engineering, appointment of facility managers, facility manager responsibilities, fire protection, service contracts, energy conservation, service call procedures, flow of work request, self help work, facility abuse, key control, records, space management, natural disasters, facility security, and grounds maintenance.

versions: Air Force, Japan, Korea, PACAF
average completion time: 25 minutes

FALL PROTECTION

Designed specifically for the Air Force, this training covers required fall protection in general industry and construction, such as fall hazards, fall protection systems or devices and their uses, inspection, maintenance, and storage requirements.

versions: Air Force
average completion time: 20 minutes

NEW! **FILTERING FACE PIECE DEVICES**

This course covers the limitations of "dust masks" or Filtering Face Piece Devices (FFPD). Targeting those who use dust masks, this training covers the importance of device limitation training when choosing to wear them.

versions: Installation Specific
average completion time: 15 minutes

FIRE ALARM SYSTEM REPAIR

This training is designed to target personnel who perform fire alarm system repair activities and offers a brief awareness of the compliance requirements related to environmental rules and regulations. Additionally, education on fire alarm system repair activities which can cause human or environmental harm.

versions: Bahrain, DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

FIRE PROTECTION FOR UNIT ENVIRONMENTAL COORDINATORS

This course provides an overview of the UECs role in fire protection. Additional topics include dust explosion hazards and hazardous materials.

versions: Air Force
average completion time: 10 minutes

NEW! **FORMALDEHYDE AWARENESS**

This course targets all those potentially exposed to formaldehyde in the work area and helps fulfill the requirements of 29 CFR 1910.1048, OSHA's Formaldehyde Standard. Details of the course include the definitions and descriptions of formaldehyde, common uses, routes of exposure, health hazards, signs and symptoms of exposure, preventative measures for exposure, supervisor responsibilities, and employee responsibilities.

versions: Installation Specific
average completion time: 10 minutes

FUELS OPERATOR

Targeting tank truck drivers and personnel involved with delivering fuel, this training offers a brief awareness of loading and unloading oil products. Topics covered include proper protocols to help prevent spills and leaks to the environment.

versions: Bahrain, DoD, General Overseas, Greece, Japan, Korea
average completion time: 5 minutes

GENERAL ENVIRONMENTAL COMPLIANCE INFORMATION

This course offers an introduction to general environmental compliance, discussing what environmental compliance means and why it is important. Additional topics include where to get compliance help and common regulated materials and wastes.

versions: Air Force, AL, Bahrain, CO, General Overseas, Greece, ID, Italy, Japan, Korea, LA, Marines, Navy, OK, SC, Spain, United Kingdom
average completion time: 15 minutes

GENERAL LABOR
This is a brief awareness training of the compliance requirements relating to environmental rules and regulations, and is geared towards a general teaching of guidelines to use when working on the jobsite.

versions: Bahrain, DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

GREEN PROCUREMENT PROGRAM (GPP)
This is a detailed training course of the Green Procurement Program (GPP) targeting personnel involved with purchasing, project planning or hold a Government Purchase Card (GPC), and those responsible for purchasing or writing specifications to purchase items that can be made with recovered materials, hazardous materials, toxic materials, ozone depleting substances, energy efficient components or items that use alternative fuels. Additional topics include GPP benefits, green procurement policy, responsibilities, GPP legal requirements, the seven components of GPP, energy and water efficient products, mandated supply sources, documentation, and finding green products.

versions: Air Force, DoD
average completion time: 30 minutes

HAZARD COMMUNICATION (HAZCOM)
Targeting personnel involved with the management of hazardous materials, this course educates on the hazard communication standard, the written program, physical hazards, understanding health information, physical and health hazard control methods, material safety data sheets, and label requirements.

versions: Air Force, DoD, General Overseas, Greece, Japan, Korea
average completion time: 15 minutes

HAZARDOUS MATERIALS
This course offers an introduction to hazardous materials for personnel involved with the management of hazardous materials. Topics include the difference between hazardous materials, substances and wastes, what makes a material hazardous, who governs hazardous materials, and the warning signs of harmful situations.

versions: AL, AZ, Navy, NC, USA
average completion time: 20 minutes

HAZARDOUS MATERIALS MANAGEMENT FOR UNIT ENVIRONMENTAL COORDINATORS
This course educates on hazardous materials management, such as hazardous properties of materials, the importance of using HAZMAT properly, record–keeping, and disposal requirements.

versions: Air Force
average completion time: 15 minutes

HAZARDOUS MATERIAL SPILLS FOR UNIT ENVIRONMENTAL COORDINATORS
This training offers information on hazardous material spills; specifically, the actions to be taken when spills or accidental discharge of hazardous materials occur, how to contain or report a spill, removing a spill, and storage tank POL releases.

versions: Air Force
average completion time: 15 minutes

HAZARDOUS MATERIALS STORAGE PRACTICES

This training provides an overview of the proper management, use and storage of hazardous materials (HAZMAT). Other topics include requirements for HAZMAT storage, flammable storage cabinet management and compressed gas management, reducing the types and volume of hazardous materials, reducing the amount of expired hazardous materials, and ensuring proper hazardous waste management.

versions: Air Force
average completion time: 10 minutes

HAZARDOUS PROPERTIES

Designed for personnel who generate, package, handle, store, transport, or manage hazardous materials or waste, this training provides an overview of the terms required to understand and identify the physical and chemical properties of a hazardous substance. These are hazardous property terms related to vapor, temperature, and fire, the pH scale, MSDS, and Hazardous Materials Information Resource System.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, Guam, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, TN, TX, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 20 minutes

HAZARDOUS WASTE COMPATIBILITY

Designed for personnel who generate, package, handle, store, transport, or manage hazardous materials or waste, this course covers the basics of storage compatibility, including how to safely store hazardous materials, DoD hazardous chemical compatibility system and Federal regulations.

versions: General
average completion time: 20 minutes

HAZARDOUS WASTE IDENTIFICATION

Designed for personnel who generate, package, handle, store, transport, or manage hazardous materials or waste, this training educates on how to identify hazardous waste. Topics include the definitions of solid waste and hazardous waste, exclusions, listed wastes, contaminated debris and media, and land disposal restriction program.

versions: General
average completion time: 20 minutes

HAZARDOUS WASTE MANAGEMENT

Designed for personnel who generate, package, handle, store, transport, or manage hazardous materials or waste, this training offers an overview of managing hazardous waste. Other topics include general requirements, the Resource Conservation and Recovery Act (RCRA), state laws, classifications, generator status, reporting requirements, making a hazardous waste determination, and hazardous waste containers.

versions: Air Force, AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, General Overseas, Guam, HI, ID, IL, IN, IA, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 20 minutes

HAZARDOUS WASTE MANAGEMENT FOR UNIT ENVIRONMENTAL COORDINATORS
Designed to target Unit Environmental Coordinators, this course offers an overview of the hazardous waste management duties. Additional topics include identifying regulated wastes, hazardous waste disposal procedures, and wastes requiring special management.

versions: Air Force
average completion time: 10 minutes

HAZMAT SHELF–LIFE MANAGEMENT PROGRAM FOR UNIT ENVIRONMENTAL COORDINATORS
This course offers guidelines for a shelf–life management program, such as shelf–life materials, self–life codes and markings, time periods and cure date.

versions: Air Force
average completion time: 10 minutes

HAZWOPER: FIRST RESPONDER AWARENESS VIDEO TRAINING
Targeting personnel who work in areas where hazardous materials are used and stored, this course provides an overview of duties of the first responder in a hazardous materials accident. This training also features a video addressing the important information a first responder needs to know before calling the emergency dispatcher.

versions: General
average completion time: 20 minutes

HERBICIDE APPLICATOR
This training targets personnel who manage herbicides as part of their job. Topics covered include instruction in proper handling and application, product labels, appropriate uses, safety precautions, spills, alternative methods for weed control, and standard procedures for returning unused portions.

versions: Navy
average completion time: 20 minutes

HISTORIC PROPERTIES FOR FACILITY MANAGERS
This training targets Facility Managers and educates on federal laws governing historic facilities; specifically, their requirements to ensure that natural or cultural resources are identified and preserved. Additional topics include an introduction to the National Historic Preservation Act (NHPA) and the National Environmental Policy Act (NEPA), and proper procedures for identifying and preserving natural or cultural resources.

versions: General
average completion time: 10 minutes

HUNTING AND FISHING: REGULATIONS AND RESTRICTIONS
This course provides an overview of the regulations and restrictions which must be followed to hunt and fish on a particular base. Additional information includes licensing, eligibility to hunt and fish, hunting and fishing procedures, and restrictions for firewood, swimming, panning, and vehicle use.

versions: Installation Specific
average completion time: 15 minutes

INSTALLING CARPET OR TILE

Targeting personnel who perform activities related to installing carpet or tile, this course offers a brief awareness of the compliance requirements relating to environmental rules and regulations, including activities which can cause human and environmental harm.

versions: Bahrain, DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

LANDFILL OPERATIONS

This course provides an overview for operating a landfill. Specific topics include wastes, cover, monitoring, required and recommended facility equipment, record–keeping, bird control, vectors and explosive gases.

versions: Air Force
average completion time: 15 minutes

NEW! **LEAD AWARENESS**

Designed for those who are potentially exposed to lead in the work field, this training helps fulfill the requirements of 29 CFR 1910.1025, OSHA's Lead Standard. Topics covered include the definitions and descriptions of lead, common uses, routes of exposure, health hazards, signs and symptoms of exposure, preventative measures for exposure, and supervisor and employee responsibilities.

versions: Installation Specific
average completion time: 10 minutes

LEAD–BASED PAINT

This training covers topics such as problems with Lead–Based Paint (LBP), routes of exposure, health effects in children and adults, ways to reduce potential health effects, lead regulations, Toxic Substances Control Act, Resource Conservation and Recovery Act (RCRA), and Lead–based Paint and OSHA.

versions: Air Force, Bahrain, DoD, General Overseas, Greece, Italy, Japan, Korea, Spain
average completion time: 15 minutes

LEAST TERNS FOR CONTRACTORS

This training targets personnel who perform activities relating to rooftops or rooftop repairs, HVAC servicing or preventative maintenance surveys. This course familiarizes rooftop contractors with the information they need to prevent disturbing nesting colonies of the Least Tern, an endangered shorebird that has taken to nesting on the flat rooftops at Kennedy Space Center.

versions: Air Force, FL
average completion time: 10 minutes

LOCKOUT/TAGOUT (LOTO): AWARENESS

This is an awareness course targeting personnel who should be familiar with LOTO and are not trained or authorized to apply locks or tags to equipment. Topics covered included the purpose of LOTO procedures, how to recognize a typical lock and tag used for LOTO and procedures to take when a lock and tag is encountered on equipment.

versions: Air Force
average completion time: 10 minutes

LOCKOUT/TAGOUT (LOTO): AIR FORCE

Designed specifically for the Air Force, this LOTO training includes the awareness education of the main LOTO course. In addition, this course covers the purpose of Lockout/Tagout procedures, LOTO equipment, sources of energy requiring Lockout, the sequence of a Lockout, restoring equipment to service, and LOTO usage logs and inspections.

versions: Air Force
average completion time: 10 minutes

LOCKSMITHING

This is a brief awareness course on the compliance requirements for environmental rules and regulations. Targeting personnel who perform locksmithing activities, this covers locksmithing activities which can cause either human or environmental harm.

versions: Bahrain, DoD, General Overseas, Greece, Japan, Korea, United Kingdom, USA
average completion time: 5 minutes

MACHINING

This is a brief awareness on the compliance requirements for environmental rules and regulations. Targeting personnel who perform machining activities, this covers machining activities which can cause either human or environmental harm.

versions: United Kingdom, USA
average completion time: 5 minutes

MEDICAL WASTE MANAGEMENT

This training provides an overview of handling medical waste and is intended for personnel with job activities involving the generation or exposure to medical waste. Topics covered include types of infectious wastes, other types of non–infectious wastes, medical waste management regulations, proper practices for handling, transporting and disposing of medical waste, treatment methods for medical waste, and what to do in the event of a medical waste spill.

versions: AK, AL, AZ, AR, Bahrain, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MT, MO, Navy, NE, NV, NH, NJ, NM, NC, ND, OH, OK, OR, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

NEW! **METHYLENE CHLORIDE AWARENESS**

This training helps fulfill the requirements of 29 CFR 1910.1052, OSHA's Methylene Chloride Standard. Details include the definitions and descriptions of Methylene Chloride, common uses, routes of exposure, health hazards, signs and symptoms of exposure, preventative measures for exposure, supervisor responsibilities, and employee responsibilities. This course is targeted towards all employees who are potentially exposed to Methylene Chloride in the work area.

versions: Installation Specific
average completion time: 10 minutes

NATURAL AND CULTURAL RESOURCES
Designed for personnel responsible for, or may have an impact on, natural and cultural resources. This overview covers the general description of natural and cultural resources, the Natural Historic Preservation Act, the National Environmental Policy Act (NEPA), NEPA notification and reporting requirements, the Endangered Species Act, threatened and endangered species, and encountering an endangered species on the jobsite.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, Guam, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 10 minutes

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA): Navy
This training is an introduction to the National Environmental Policy Act (NEPA), outlining the steps of the NEPA process, its policies and goals and identifying elements of NEPA that are applicable to Navy projects.

versions: Navy
average completion time: 20 minutes

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) COMPLIANCE FOR UNIT ENVIRONMENTAL COORDINATORS
This course covers National Environmental Policy Act (NEPA) Compliance training for Unit Environmental Coordinators. Topics include "what" NEPA is, general compliance training, and specific Air Force procedures for UECs.

versions: Air Force
average completion time: 10 minutes

NOISE MANAGEMENT
This course offers a brief introduction to the Florida National Guard's Statewide Operational Noise Management Plan, outlining the objectives and fundamentals of a successful complaint management program. Additional topics include worker protection, noise abatement, and prevention of conflict between FLARNG and the surrounding communities.

versions: Florida National Guard
average completion time: 10 minutes

OIL/WATER SEPARATORS
This course provides a basic understanding of Oil/Water Separators (OWS) for personnel who use, manage, monitor, or maintain OWS as part of their job responsibilities. Material includes the types and functions of oil/water separators, operation and maintenance, inspection procedures, and laws and regulations governing their use.

versions: Air Force, FL
average completion time: 10 minutes

OPERATING HEAVY EQUIPMENT
This is a brief awareness training on operating heavy equipment and how it relates to common environmental issues such as wetlands, endangered species habitats, archaeological areas, and erosion control.

versions: Bahrain, DoD, General Overseas, Greece, Italy, Japan, Korea, Spain, United Kingdom
average completion time: 5 minutes

OVERVIEW OF ENVIRONMENTAL COMPLIANCE
This course provides a more comprehensive overview of environmental compliance. In addition to the basics learned in "General Environmental Compliance Information," this course also covers environmental legislation, federal, state and local environmental laws, inspections and internal audits, violations and enforcement actions, and penalties for non-compliance.

versions: AK, Army, FL, GA, HI, LA, MD, MS, Navy, SC, TN, TX, USA
average completion time: 20 minutes

OZONE DEPLETING SUBSTANCES (ODS)
This course serves as an introduction to Ozone Depleting Substances (ODS) and educates on the background of ODS, use of ODS in weapon systems, procurement controls, refrigerant management plans, Halon management plans, and Class II ODS Phase–Out.

versions: Air Force
average completion time: 15 minutes

PAINTING
This introductory training is designed to help workers comply with the environmental regulations that apply to painting. Topics include emissions, waste and paint chemicals.

versions: General Overseas, Greece, Italy, Korea, Navy, Spain, United Kingdom, USA
average completion time: 5 minutes

PLUMBING AND PIPE FITTING
This is a brief awareness on the compliance requirements for environmental rules and regulations. This course is designed for personnel who perform plumbing and pipe fitting activities and educates on the activities that can potentially cause human or environmental harm.

versions: Bahrain, DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

POLYCHLORINATED BIPHENYLS (PCBs) MANAGEMENT
This training educates on overall PCB management including general PCB information, federal regulations, identifying PCBs, proper management of PCB items, transformer management, spill response to PCB discharges, and proper disposal of PCBs.

versions: AL, DoD, FL, General Overseas, Greece, Italy, Japan, Korea, Navy, Spain, TN, TX, United Kingdom, USA
average completion time: 25 minutes

PERSONAL PROTECTIVE EQUIPMENT (PPE)
This course is designed to provide an overview on the different types of PPE and the reasons to use them. Additional topics include hazard determinations, safety equipment, head, body and respiratory protection, and first aid.

versions: General
average completion time: 20 minutes

PESTICIDES
This is an introduction to pesticides course, educating on pesticide laws, pesticide mixing, storage and disposal, and preparing for pesticide management inspection.

versions: AL, AK, AZ, AR, Bahrain, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, Guam, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 10 minutes

PETROLEUM, OILS AND LUBRICANTS (POL) MANAGEMENT
Designed to provide a general overview of Petroleum, Oils and Lubricants (POL) management, this course includes general POL information, spill prevention, control and countermeasure plan, management guidelines for used oil and POL, container storage, and used oil requirements.

versions: AL, AK, AZ, AR, Bahrain, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 10 minutes

POLLUTION CONTROL
This course educates on the forms of pollution that must be controlled, such as noise pollution, thermal pollution, light pollution, dust pollution, and odor control.

versions: AL, AK, DoD, General Overseas, Greece, Italy, Japan, Korea, Spain, USA
average completion time: 15 minutes

POLLUTION PREVENTION (P2)
This is a brief awareness course that touches on pollution prevention, such as source reduction, purchasing wisely, and some typical P2 projects. This training is targeted at personnel and contractors whose products or services could potentially be modified to minimize the use of hazardous materials and the generation of hazardous waste. Methods discussed include using the least toxic raw materials, using less raw materials, upgrading equipment, and product redesign.

versions: Air Force, AL, CO, DoD, General Overseas, Greece, HI, ID, Italy, Japan, Korea, Navy, Spain, United Kingdom, USA
average completion time: 10 minutes

PROJECT MANAGER
Targeting Project Managers and Supervisors, this course emphasizes the importance of training staff on compliance, how to become well informed about applicable environmental regulations, and that operations are in compliance with environmental laws.

versions: DoD, General Overseas, Greece, Italy, Japan, Korea, Navy, Spain, United Kingdom
average completion time: 5 minutes

RCRA ANNUAL REFRESHER: INTRODUCTION

This introductory course targets generators of hazardous waste. The first of the annual refresher courses identifies federal and state requirements met by the RCRA Annual Refresher training, states the purpose of the training, and serves as an introduction to the 7 seven courses of the full 8-hour training series.

versions: Air Force, Greece, Japan, Korea, USA
average completion time: 5 minutes

RCRA ANNUAL REFRESHER: DOT HAZMAT REGULATIONS

This training section educates on the Department of Transportation (DOT) regulations regarding hazardous materials. Designed for generators of hazardous waste, this covers training, security awareness, hazardous class, appropriate marketing, packaging, and record–keeping.

versions: USA
average completion time: 20 minutes

RCRA ANNUAL REFRESHER: ENVIRONMENTAL LAWS AND LIABILITY

This training section provides information on the federal laws developed to protect the environment and human health from hazardous chemicals and materials. Topics covered include the National Environmental Policy Act (NEPA), Clean Air Act (CAA), Clean Water Act (CWA), Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Pollution Prevention Act (PPA), and worker safety.

versions: USA
average completion time: 20 minutes

RCRA ANNUAL REFRESHER: HAZARDOUS PROPERTIES

This training section provides information on the terms needed to understand and identify the physical and chemical properties of a hazardous substance, including hazardous property terms related to vapor, temperature, fire, the pH scale, material safety data sheets (MSDSs), and Hazardous Materials Information Resource System (HMIRS).

versions: USA
average completion time: 20 minutes

RCRA ANNUAL REFRESHER: HAZARDOUS WASTE COMPATIBILITY

This training section covers the basics of storage compatibility, such as how to safely store hazardous materials, the Department of Defense (DoD) hazardous chemical compatibility system, and Federal Regulations.

versions: USA
average completion time: 20 minutes

RCRA ANNUAL REFRESHER: HAZARDOUS WASTE IDENTIFICATION

This training section educates on identifying hazardous waste. Other topics include exclusions, listed wastes, contaminated debris and media, the land disposal restrictions program, and descriptions of solid waste and hazardous waste.

versions: USA
average completion time: 20 minutes

RCRA ANNUAL REFRESHER: PERSONAL PROTECTIVE EQUIPMENT (PPE)
This training section covers the different types of Personal Protection Equipment (PPE) and reasons for their use. Also included is hazard determinations, safety equipment, head, body and respiratory protection, and first aid.

versions: USA
average completion time: 20 minutes

RCRA ANNUAL REFRESHER: STANDARDS APPLICABLE TO GENERATORS
This training section offers information on the standards important to facility hazardous waste generators, such as different types of generators, Environmental Protection Agency (EPA) requirements for hazardous waste generators, types of accumulation areas, and the requirements for hazardous waste storage containers.

versions: USA
average completion time: 20 minutes

RECURRING WORK PROGRAM (RWP)
This course is designed for annual validation and covers the Recurring Work Program (RWP), along with the progam's value, application and roles.

versions: Air Force
average completion time: 20 minutes

RECYCLING
This is a general overview of the recycling basics. Topics include "what" recycling and green procurement is and the types of materials that can be recycled.

versions: AL, Bahrain, DoD, General, General Overseas, Greece, Italy, Japan, Korea, Navy, Spain, United Kingdom
average completion time: 10 minutes

REFRIGERANTS
This course offers a general familiarization with refrigerants for personnel who maintain, service or repair refrigeration equipment. Specifics include Class II ODS Phase–Out, terms associated with refrigerants, safety precautions when working with refrigerants, and facts, benefits, and challenges of R410A.

versions: Air Force, Navy, United Kingdom
average completion time: 15 minutes

ROAD, PARKING LOT OR AIRFIELD PAVING
This offers a brief awareness of the compliance requirements for environmental rules and regulations regarding road, parking lot or airfield paving. Targeting those who perform road, parking lot or airfield activities, this covers safety precautions for the activities that can cause human or environmental harm.

versions: DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

ROOFING
This offers a brief awareness of the compliance requirements for environmental rules and regulations regarding roofing. Targeting those who perform roofing activities, this covers safety precautions for the activities that can cause human or environmental harm.

versions: DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

SAFETY MANAGER
Designed specifically for Air Force Safety Managers, this customized training provides an overview of the information Safety Managers should be aware of, such as responsibilities, the Mishap Prevention Program, AFOSH specific responsibilities, and documentation of training.

versions: Air Force
average completion time: 15 minutes

SHEET METAL WORK
This offers a brief awareness of the compliance requirements for environmental rules and regulations regarding sheet metal work activities. Topics include safety information for activities that can potentially cause human or environmental harm.

versions: DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

SHEETROCK HANGING AND FINISHING
Targeting personnel who perform sheetrock hanging and finishing activities, this offers a brief awareness of compliance requirements. Safety information is also covered to prevent potential human or environmental harm.

versions: DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

SMALL ENGINE MAINTENANCE
This offers a brief awareness of the compliance requirements for environmental rules and regulations regarding small engine maintenance activities. Topics include safety information for activities that can potentially cause human or environmental harm.

versions: DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

SOLID WASTE
This training covers an overview of solid waste, including types of waste, solid waste regulations, solid waste disposal, general waste management guidelines, and preparing for solid waste inspections.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DoD, DC, FL, GA, General Overseas, Guam, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC)

This course provides an overview of Spill Prevention Control and Countermeasures (SPCC), the SPCC program, goals of SPCC training, spill prevention and planning requirements, spill prevention, basic spill response expectations, reporting incidental shop spills, hazardous material spills, storage tank requirements, and storage tank discharge.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, Guam, HI, ID, IL, IN, IA, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, Spain, TN, TX, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 20 minutes

SPILL RESPONSE: NON–EMERGENCY HAZMAT VIDEO TRAINING

This Spill Response training course offers an overview of procedures for various spill situations. This training also features an informational video that reviews HAZMAT spill discovery and assessment, non–HAZWOPER spill response and incidental release cleanup procedures.

versions: General
average completion time: 20 minutes

STANDARDS APPLICABLE TO GENERATORS

This training is an overview of the standards important to facility hazardous waste generators, such as the different types of generators, EPA requirements for hazardous waste generators, the types of accumulation areas, and the requirements for hazardous waste storage containers.

versions: General
average completion time: 20 minutes

STORAGE TANKS

This course educates on storage tank management. Training includes general storage tank information, storage tank regulations, hazardous waste storage tanks, above–ground storage tanks, underground storage tanks, notification requirements, preventing tank spills, discharge, and inspections.

versions: ROICC Sites: Bahrain, General Overseas, Greece, Guam, Italy, Japan, Korea, Spain, United Kingdom, USA
average completion time: 20 minutes

STORMWATER: BASIC INFORMATION

This course provides a basic overview of information relating to stormwater, such as runoff, major federal stormwater laws, sources of pollution in stormwater runoff, controlling sediments, non–point source pollution, point source pollution, stormwater pollution prevention plans, and stormwater cross connections.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, Guam, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

STORMWATER: COMPREHENSIVE OVERVIEW

This training covers everything in the "Basic Information" course, plus NPDES Phase I and II, controlling erosion at construction sites, stormwater permitting, penalties for non–compliance, and stormwater and municipal separate storm sewer systems.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, General Overseas, Greece, HI, ID, Italy, IL, IN, IA, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 20 minutes

STORMWATER: EROSION AND SEDIMENT CONTROL

This is a training series consisting of nine courses providing a comprehensive overview of erosion and sediment control for construction sites and public works maintenance projects. This series targets personnel involved with the planning, design, and construction of sites and land development projects and maintenance of public works projects. These courses cover laws and regulations, environmental and economic impacts of soil erosion, principles of erosion and sedimentation, erosion and sediment control practices, vegetative stabilization, principles of stormwater runoff, stormwater management best management practices, construction site pollution prevention, and sediment and stormwater plans.

versions: USA
average completion time: 3 hours

STORMWATER—HONOLULU: STORMWATER OVERVIEW

Designed specifically for the City of Honolulu, this course provides an overview of their stormwater systems and stormwater laws. This training targets all City and County personnel and covers specifics such as their Municipal Separate Storm Sewer System (MS4), illicit discharges and illegal connections, water pollution, federal and state stormwater rules and regulations, the Clean Water Act, enforcement and penalties for stormwater violations, and the National Pollutant Discharge Elimination System (NPDES) permit.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: THE CITY AND COUNTY OF HONOLULU'S SWMP

Designed specifically for the City of Honolulu, this course provides an overview of their Stormwater Management Program (SWMP) and targets all City and County personnel. This course covers the overall goals of the program, plus the individual elements of the program: public participation and outreach, pollution prevention and good housekeeping, industrial and commercial discharge, monitoring and implementation plans, illicit discharge detection and elimination, post-construction stormwater management, and construction site runoff control.

versions: Honolulu
average completion time: 20 minutes

STORMWATER—HONOLULU: STORMWATER BEST MANAGEMENT PRACTICES PLANNING

Designed specifically for the City of Honolulu, this course provides an overview of their stormwater management planning. Targeting designers and plans reviewers, this training covers the stormwater management approach, the BMP planning process, stormwater management requirements for developments, permits and BMP plans, and elements of a BMP plan.

versions: Honolulu
average completion time: 15 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR POST–CONSTRUCTION BMPs: SELECTION PROCESS

Designed specifically for the City of Honolulu, this course provides guidance for selecting best management practices (BMPs) to incorporate into the planning and design of a project. Targeting designers and plans reviewers, this training covers the City and County of Honolulu's BMP Manual for New Development and Redevelopment, the planning approach for BMP selection, and the three step BMP design process of reducing runoff, controlling pollutant sources, and treating polluted runoff.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR POST–CONSTRUCTION BMPs: SITE PLANNING AND DESIGN BMPs

Designed specifically for the City of Honolulu, this course provides guidance for selecting best management practices (BMPs) to incorporate into the planning and design of a project. Targeting designers and plans reviewers, this training covers pollution prevention BMPs and site planning and design BMPs.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR POST–CONSTRUCTION BMPs: SOURCE CONTROL BMPs

Designed specifically for the City of Honolulu, this course provides guidance for selecting best management practices (BMPs) to incorporate into the planning and design of a project. Targeting designers and plans reviewers, this specifically covers source control BMPs.

versions: Honolulu
average completion time: 15 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR POST–CONSTRUCTION BMPs: TREATMENT CONTROL BMPS

Designed specifically for the City of Honolulu, this course provides guidance for selecting best management practices (BMPs) to incorporate into the planning and design of a project. Targeting all City and County of Honolulu personnel, this training covers the treatment control of BMP design considerations and several treatment control BMPs.

versions: Honolulu
average completion time: 25 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR POST–CONSTRUCTION BMPs: PLAN REVIEW, DOCUMENTATION, OPERATIONS AND MAINTENANCE PLANS

Designed specifically for the City of Honolulu, this course covers the minimum requirements for best management practices (BMPs) that must be maintained after a construction project has been completed. This course targets designers and plans reviewers and covers types of BMPs, tracking BMPs, and the BMP information which must be provided to the City and County of Honolulu Operating Department.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR CONSTRUCTION BMPs: PLANS, PERMITS AND SITE REQUIREMENTS

Designed specifically for the City of Honolulu, this course covers the minimum stormwater requirements for best management practices (BMPs) that must be maintained by construction projects. This course targets designers and plans reviewers and covers administrative requirements, Erosion Control Plans, NPDES General Permit coverage and Notice of Intent (NOI), contract documents for Capital Improvement Plan (CIP) projects, and enforcement actions for non-compliance.

versions: Honolulu
average completion time: 15 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR CONSTRUCTION BMPs: SELECTION PROCESS

Designed specifically for the City of Honolulu, this course provides an overview of the selection process for best management practices (BMPs) that must be maintained by construction projects. This course targets designers and plans reviewers and covers the City and County of Honolulu's BMP Manual for Construction Sites and the three step BMP selection process of defining, identifying, and selecting BMPs.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR CONSTRUCTION BMPs: EROSION AND WIND CONTROLS

Designed specifically for the City of Honolulu, this course provides an overview of best management practices (BMPs) to use for wind and erosion control construction projects. This course covers scheduling, vegetative stabilization, mulch, geotextiles and mats, earth dikes and drainage swales, slope drains, velocity dissipation devices, and wind erosion control.

versions: Honolulu
average completion time: 15 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR CONSTRUCTION BMPs: SEDIMENT CONTROLS

Designed specifically for the City of Honolulu, this course provides an overview of best management practices (BMPs) to use for controlling sediment construction projects. This course targets designers and plans reviewers and covers silt fence, linear control measures, fiber rolls, check dams, sediment traps, sediment basins, and storm drain inlet protection.

versions: Honolulu
average completion time: 15 minutes

STORMWATER—HONOLULU: DESIGN CONSIDERATIONS FOR CONSTRUCTION BMPs: TRACKING CONTROLS AND GOOD HOUSEKEEPING

Designed specifically for the City of Honolulu, this course provides an overview of best management practices (BMPs) to use for controlling tracking from the site and maintaining good housekeeping. This course targets designers and plans reviewers and covers stabilized construction entrances and exits, stabilized construction roadways, non–storm water discharges, and waste management and materials pollution control.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: INSPECTION CONSIDERATIONS FOR CONSTRUCTION BMPs: PLANS, PERMITS AND SITE REQUIREMENTS

Designed specifically for the City of Honolulu, this course provides an overview of the minimum stormwater requirements for best management practices (BMPs) that must be maintained for construction projects. This course targets inspectors and construction managers and covers administrative requirements, Erosion Control Plans, NPDES General Permit coverage and Notice of Intent (NOI), contract documents for Capital Improvement Plan (CIP) projects, and enforcement actions for non–compliance.

versions: Honolulu
average completion time: 15 minutes

STORMWATER—HONOLULU: INSPECTION CONSIDERATIONS FOR CONSTRUCTION BMPs: CORRECT INSTALLATION AND MAINTENANCE OF COMMON SITE BMPS

Designed specifically for the City of Honolulu, this course provides an overview of best management practices (BMPs) used during construction and overall guidelines for their maintenance. This course targets inspectors and construction managers and covers scheduling, vegetation, mulch, geotextiles and mats, slope drains, velocity dissipation devices, silt fence, storm drain inlet protection, sediment traps and basins, wind erosion control, tracking control, vehicle and equipment management, concrete management, and good housekeeping.

versions: Honolulu
average completion time: 20 minutes

STORMWATER—HONOLULU: INSPECTION CONSIDERATIONS FOR CONSTRUCTION BMPs: INSPECTION AND ENFORCEMENT PROCEDURES

This course provides an overview of the inspection and enforcement program for construction projects within the City and County of Honolulu. Designed to target inspectors and construction managers, this covers inspection responsibilities, minimum requirements for construction activities, inspections of best management practices (BMPs), inspection frequency, documentation, violations, illicit discharges, contract acceptance, and project closeout.

versions: Honolulu
average completion time: 15 minutes

STORMWATER—HONOLULU: MUNICIPAL MAINTENANCE ACTIVITIES: GOOD HOUSEKEEPING

This course provides an overview of pollution prevention and good housekeeping for municipal operations while working within the City and County of Honolulu. Designed to target municipal maintenance personnel, this course educates on employee training, labels, material safety data sheets, storage areas, material use and supply, managing hazardous material, managing waste, operating and maintaining equipment and vehicles, managing spills, and stormwater within work areas.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: MUNICIPAL MAINTENANCE ACTIVITIES: ILLICIT DISCHARGES AND ILLEGAL CONNECTIONS

This course provides a brief overview of the City and County of Honolulu's illicit discharge and illegal connection program. This awareness training targets municipal maintenance personnel and goes over illicit discharge and illegal connection definitions, detection, removal of, and reporting of illicit discharges and illegal connections to the City and County of Honolulu's municipal separate storm sewer system.

versions: Honolulu
average completion time: 5 minutes

STORMWATER—HONOLULU: MUNICIPAL MAINTENANCE ACTIVITIES: LANDSCAPE MAINTENANCE BMPS

This course offers an overview of best management practices (BMPs) to use while maintaining landscape within the City and County of Honolulu. This training targets municipal maintenance personnel and covers planting, irrigation, vegetation control, green waste, integrated pest control, container labels, material safety data sheets, pesticide application, and fertilizer application.

versions: Honolulu
average completion time: 20 minutes

STORMWATER—HONOLULU: MUNICIPAL MAINTENANCE ACTIVITIES: MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) MAINTENANCE BMPS

This course offers an overview of best management practices (BMPs) to use while maintaining the City and County of Honolulu's MS4. This course targets municipal maintenance personnel and covers inspection of the MS4 and its components, inspection for debris, illicit discharges and illegal connections, cleaning of drainage structures, and reporting MS4 issues that require attention.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: MUNICIPAL MAINTENANCE ACTIVITIES: PAVEMENT MAINTENANCE BMPS

This course offers an overview of best management practices (BMPs) to use while maintaining pavement or performing small pavement related construction projects within the City and County of Honolulu. This course targets municipal maintenance personnel and covers pavement cleaning methods, using leaf blowers, power washing, wash water disposal, street sweeping, minor construction activities, material and equipment supply and storage, and handling waste.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: MUNICIPAL MAINTENANCE ACTIVITIES: SPILL MANAGEMENT

This course offers an overview of preventing and managing spills within the City and County of Honolulu. This course targets municipal maintenance personnel and educates on spill preparedness, spill prevention, spill response, spill cleanup methods, disposal of spill materials, reporting spills, and responding to spill and leaks in the field.

versions: Honolulu
average completion time: 10 minutes

STORMWATER—HONOLULU: MUNICIPAL MAINTENANCE ACTIVITIES: VEHICLE AND EQUIPMENT MAINTENANCE BMPS

This course offers an overview of best management practices (BMPs) to use while maintaining vehicles and equipment within the City and County of Honolulu. This training targets municipal maintenance personnel and covers routine practices, general maintenance and repairs, equipment cleaning, handling waste, recycling, washing vehicles, and fueling.

versions: Honolulu
average completion time: 10 minutes

STORMWATER GENERAL AWARENESS

This course provides an overview of stormwater, its importance and protection, basic laws governing stormwater pollution, identifying construction site pollutants and how to implement BMPs, and identifying and reducing residential pollutants.

versions: Installation Specific
average completion time: 15 minutes

STORMWATER LOW IMPACT DEVELOPMENT (LID)

This training provides an overview of low impact development for stormwater and educates on the purpose and benefits of LID, federal LID requirements, and provides examples of LID techniques.

versions: Installation Specific
average completion time: 20 minutes

SUBMARINE MAINTENANCE

Targeting personnel who maintain submarine vehicles, this training provides a quick overview of the submarine maintenance activities which can cause harm to the environment or people working in that area.

versions: General
average completion time: 5 minutes

NEW! **SUSTAINABLE ENVIRONMENTAL MANAGEMENT (SEM)**

This course is awareness training on the use of SEM as a management tool to help achieve sustainability. Topics covered include development of environmental policy statements, explanation of environmental aspects and impacts, developing environmental objectives and targets, and operational controls. The training includes specific examples of things that individuals and corporations can do to reduce environmental impacts, including modifications to supply chain management and incorporation of life cycle management strategies.

versions: General
average completion time: 30 minutes

UNIT ENVIRONMENTAL COORDINATOR (UEC)

This Unit Environmental Coordinator (UEC) training series consists of 16 courses and provides an overview of environmental issues for Air Force UECs. This training targets new and existing Air Force UECs and covers important environmental topics such as air emissions, Environmental, Safety and Occupational Health (ESOH) Compliance Assessment Management Program, fire protection, hazardous materials management, hazardous materials spills, hazardous waste management, HAZMAT Shelf–Life Management Program, National Environmental Policy Act (NEPA) Compliance, natural and cultural resource protection, pesticides, pollution prevention, solid waste management, special programs, and training and occupational health exams.

versions: Air Force
average completion time: 3 hours

UNIVERSAL WASTE

Designed specifically for Minot Air Force Base, this course offers a general familiarization with universal waste. Targeting office personnel and those who are not required to receive hazardous waste training, this educates on topics such as universal waste definitions, management guidelines for universal waste at Minot Air Force Base, and common universal wastes that may be encountered at Minot Air Force Base.

versions: Air Force
average completion time: 10 minutes

USED OIL AND ORGANIZATIONAL TANK CUSTODIAN

Designed for Columbus Air Force Base, this course covers responsibilities of the tank custodian, types of organizational tanks, protocol for establishing used oil tanks, product and safety markings, safety and environmental guidelines, leak detection, and checklists.

versions: Air Force
average completion time: 20 minutes

VEHICLE CONTROL OFFICER (VCO)

This training offers an overview of the Vehicle Control Officer (VCO) program and general important issues for the VCO, such as roles and responsibilities, procedures and protocols, and guidance for meeting mission requirements for vehicle control and transportation services.

versions: PACAF
average completion time: 10 minutes

VEHICLE MAINTENANCE

This is a brief awareness of environmental compliance rules and regulations for personnel who perform vehicle maintenance activities which can cause human or environmental harm.

versions: General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

WASTE MANAGEMENT GUIDELINES

This training covers guidelines for managing regulated wasted and targets personnel who perform activities which may generate waste. Topics include wastes requiring special management such as fluorescent bulbs, antifreeze, batteries, caulking, paint, and used oil.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WASTE MANAGEMENT GUIDELINES FOR HVAC WASTE

This training covers guidelines for managing typical wastes generated from heating, refrigeration and air conditioning activities. Topics covered include waste requiring special requirements, batteries, caulking, rags, aerosol cans, and empty containers.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WASTE MANAGEMENT GUIDELINES FOR AIRCRAFT MAINTENANCE WASTE

This training covers guidelines for managing typical wastes generated from aircraft maintenance activities. Topics include wastes requiring special management, antifreeze, batteries, caulking, paint, used oil, aerosol cans, blast media, and absorbent material.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 20 minutes

WASTE MANAGEMENT GUIDELINES FOR BUILDING CONSTRUCTION WASTE

This training covers guidelines for managing typical wastes generated from building construction activities. Topics include wastes requiring special management, batteries, caulking, paint guidelines, rags, aerosol can guidelines, absorbent material requirements, and empty container information.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WASTE MANAGEMENT GUIDELINES FOR BUILDING DEMOLITION WASTE

This training covers guidelines for managing typical wastes generated from building demolition activities. Topics include wastes requiring special management, hazardous waste from construction sites, guidelines for fluorescent bulbs, used oil requirements, batteries, absorbent material guidelines, and empty container information.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WASTE MANAGEMENT GUIDELINES FOR BUILDING MAINTENANCE WASTE

This training covers guidelines for managing typical wastes generated from building maintenance activities. Topics include wastes requiring special management, guidelines for mercury–containing bulbs and devices, guidelines for fluorescent bulbs, guidelines for paint operations, batteries, caulking, used rags guidelines, aerosol can disposal guidelines, cleaning and degreasing solvents, adhesives and glues guidelines, pesticide disposal, absorbent material guidelines, and empty container information

versions: RI, USA
average completion time: 15 minutes

WASTE MANAGEMENT GUIDELINES FOR BUILDING RENOVATION WASTE

This training covers guidelines for managing typical wastes generated from building renovation activities. Topics include wastes requiring special management, guidelines for fluorescent bulbs, batteries, caulking, paint guidelines, rags, aerosol can guidelines, blast media requirements, and hazardous waste from construction sites.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 20 minutes

WASTE MANAGEMENT GUIDELINES FOR CARPENTRY WASTE

This training covers guidelines for managing typical wastes generated from carpentry activities. Topics include wastes requiring special management, hazardous waste from construction sites, caulking, aerosol can management, paint guidelines, rags, and empty container requirements.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 10 minutes

WASTE MANAGEMENT GUIDELINES FOR LANDSCAPING WASTE

This training covers guidelines for managing typical wastes generated from landscaping activities. Topics include wastes requiring special management, guidelines for used oil, used rags and gasoline, batteries, aerosol can disposal guidelines, cleaning and degreasing solvents, pesticide disposal, absorbent material guidelines, and empty container information.

versions: ROICC: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WASTE MANAGEMENT GUIDELINES FOR CARPET AND TILE INSTALLATION WASTE

This training covers guidelines for managing typical wastes generated from carpet and tile installation activities. Topics include wastes requiring special management, hazardous waste from construction sites, caulking, rags, aerosol can management, absorbent materials management, and empty container requirements.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WASTE MANAGEMENT GUIDELINES FOR ELECTRICAL WASTE

This training covers guidelines for managing typical wastes generated from electrical activities. Topics include wastes requiring special management, fluorescent bulb management, and battery guidelines.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 10 minutes

WASTE MANAGEMENT GUIDELINES FOR FIRE ALARM SYSTEM REPAIR WASTE

This training covers guidelines for managing typical wastes generated from fire alarm repair activities. Topics include wastes requiring special management, batteries, empty containers, and recyclable mercury–containing devices.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 10 minutes

WASTE MANAGEMENT GUIDELINES FOR LABORATORY AND PHARMACY WASTE

This training covers guidelines for managing typical wastes generated from laboratory and pharmacy activities. Topics include wastes requiring special management, laboratory waste requirements, radioactive mixed waste guidelines, pharmaceutical waste requirements, and empty containers.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, General Overseas, Greece, HI, Italy, ID, IL, IN, IA, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WASTE MANAGEMENT GUIDELINES FOR PAINT WASTE

This training covers guidelines for managing typical wastes generated from painting activities. Topics include wastes requiring special management, caulking, oil based paint, latex paint, paint containing lead, rags, aerosol cans, blast media, and empty containers.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 20 minutes

WASTE MANAGEMENT GUIDELINES FOR SMALL ENGINE MAINTENANCE WASTE

This training covers guidelines for managing typical wastes generated from small engine maintenance activities. Topics include wastes requiring special management, used oil requirements, antifreeze guidelines, batteries, rags, gasoline requirements, aerosol can guidelines, absorbent materials guidelines, and empty cans.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WASTE MANAGEMENT GUIDELINES FOR SUBMARINE MAINTENANCE WASTE
This training covers guidelines for managing wastes generated from submarine maintenance activities. Topics include wastes requiring special management, mercury–containing bulbs and devices, fluorescent bulbs, cathode ray tubes, used oil, antifreeze, batteries, caulking, management of paints and painting operations, rags, gasoline, aerosol cans, solvents for cleaning and degreasing, adhesives, glues, sealants, blast media disposal, absorbent material, and empty containers.

versions: CT
average completion time: 15 minutes

WASTEWATER
This is an introduction to wastewater and educates on general wasterwater information, wastewater permit requirements, wastewater discharges requiring a permit, wastewater treatment plants, well–pointing, and accidental sewage discharges.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, DoD, FL, GA, General Overseas, Greece, Guam, HI, ID, IL, IN, IA, Italy, Japan, KS, KY, Korea, LA, ME, MD, MA, MN, MS, MT, Navy, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, Spain, TN, TX, United Kingdom, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WATER
This course provides an overview of water regulations. Additional topics included the purpose of water regulations, overview of federal water laws, and descriptions of key water laws.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, TN, TX, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 10 minutes

WELDING
This is a brief awareness course that covers compliance requirements for environmental rules and regulations. Targeting personnel involved with welding activities, this goes over the welding activities that could potentially cause human or environmental harm.

versions: DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

WETLANDS
This course is an overview of wetlands and educates on general wetland information, wetlands laws, working near wetlands, wetland permit requirements, agencies involved with wetlands, and protecting wetlands while working.

versions: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, Guam, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, USA, UT, VT, VA, WA, WV, WI, WY
average completion time: 15 minutes

WETLANDS GENERAL AWARENESS
This training educates on general wetlands awareness. Additional topics include the importance of wetlands, their protection, basic laws governing wetlands, and identifying construction site Best Management Practices (BMPs) and their implementation.

versions: Installation Specific
average completion time: 15 minutes

WINDOW GLAZING

This is a brief awareness of the compliance requirements for environmental rules and regulations related to window glazing activities. Topics include the window glazing activities that could potentially cause human or environmental harm in the work area.

versions: DoD, General Overseas, Greece, Japan, Korea, United Kingdom
average completion time: 5 minutes

CONTACT US

*For more information on any of our courses, or to learn how you can customize your own, call **1.866.730.4253** or email us at **icldinfo@att.net**.*

END OF REPORT