



Mackert, Susan <susan.mackert@deq.virginia.gov>

[DoD SAFE] GROSE.JOHN.DAVID has dropped off a file for you

1 message

NoReplyTo@mail.mil <NoReplyTo@mail.mil>
Reply-To: "GROSE.JOHN.DAVID" <john.d.grose@usmc.mil>
To: susan.mackert@deq.virginia.gov

Thu, Dec 15, 2022 at 9:18 PM

This is an automated message sent to you by the DoD SAFE service.

GROSE.JOHN.DAVID <john.d.grose@usmc.mil> has dropped off a file for you.

IF YOU TRUST THE SENDER and are expecting to receive a file from them, you may choose to retrieve the drop-off by clicking the following link (or copying and pasting it into your web browser):

<https://safe.apps.mil/pickup.php?claimID=2sEYsiFcbA5dtN5F&recipCode=ucyAnh>

You will be required to enter the claim passcode, which is:
a4FVsuYqq43tvU9W

You have 7 days to retrieve the drop-off; after that the link above will expire.

The sender has left you a note:

Ms. Mackert,

Thank you for your assistance on this. I spoke with Mr. Sullivan and he said he added the outfalls in the coverletter that do not have sample requirements historically, as he said you instructed. I don't see Outfall 018 on the list but, you mentioned it in your comments. The source is no longer there (HMX-1 Supply Depot), so if there is a need to still include it, please add it to Mr. Christensen's request for a sampling waiver. Also, Mr. Sullivan will be starting a new job with the EPA after this month. Until I am able to hire for that position, please direct any questions to me and I will be glad to help. Thank you and have a great night.

V/R

J. David Grose

Full information about the drop-off:

Claim ID: 2sEYsiFcbA5dtN5F
Recipient Code: ucyAnh
Claim Passcode: a4FVsuYqq43tvU9W
Drop-off Submitted: 2022-12-16 02:18:18 UTC
Drop-off Completed: 2022-12-16 02:18:22 UTC

— Sender —

Name: GROSE.JOHN.DAVID
Organization: USMC
Email Address: john.d.grose@usmc.mil

— File —

Name: MCBQ Ind SW Resubmittal Dec 2022 rev.pdf
Description: Resubmittal 2151 MCBQ 2022
Size: 22846618
SHA-256 Checksum: 48D58624A56343BBD58F20616D5D454CC3651414957586B905A91B90EFE93B99
Content Type: application/pdf

12/19/22, 7:50 AM

Commonwealth of Virginia Mail - [DoD SAFE] GROSE.JOHN.DAVID has dropped off a file for you



UNITED STATES MARINE CORPS
MARINE CORPS INSTALLATIONS NATIONAL CAPITAL REGION
MARINE CORPS BASE QUANTICO
3250 CATLIN AVENUE
QUANTICO VIRGINIA 22134 5001

IN REPLY REFER TO:
5090
B046

DEC 15 2022

Ms. Susan Mackert
Department of Environmental Quality
13901 Crown Ct.
Woodbridge, VA 22193

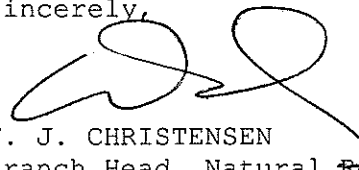
Dear Ms. Mackert:

SUBJECT: INDUSTRIAL STORM WATER PERMIT REAPPLICATION VA0002151

The Quantico Industrial Storm Water Discharge Reapplication Permit package for VPDES permit VA0002151 is enclosed for your review and approval. Please note, outfalls 007, 010, 014, and 030 are authorized to discharge under the current permit, however they do not have any sampling requirements. For that reason Marine Corps Installations National Capital Region - Marine Corps Base Quantico is requesting a waiver for the sampling requirements for these outfalls requested with this revised application.

Please contact Mr. Jonmark Sullivan at (703) 432-0539 if you have any questions.

Sincerely,



W. J. CHRISTENSEN
Branch Head, Natural Resources &
Environmental Affairs Branch

Enclosures: 1. VA0002151 reapplication package

PUBLIC NOTICE BILLING AUTHORIZATION FORM

VPDES Permit No. VA00 02151

Facility Name: USMC Base Quantico - NREAB Industrial

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in Inside Nova in accordance with 9 VAC 25-31-290.C.2.

Agent/Department to be billed: Walter Christensen
Owner: MCINCR-MCBQ
Agent/Department Address: NREA Branch (B 046)
Address: 2006 Hawkins Ave, 3rd floor, Rm. 336
City, State Zip: Quantico, VA 22134
Agent's Telephone No.: 703-784-4030

I am also authorizing the above listed newspaper to send the publication verification to:

DEQ Northern Regional Office
Water Permits - ATTN: Susan Mackert

Authorizing Agent - Printed Name: Walter Christensen
Authorizing Agent - Signature: [Handwritten Signature]
Date: 20221215

ONLY APPLICABLE FOR INDUSTRIAL MINOR PERMIT ACTIONS

For industrial minor permit actions, DEQ may publish abbreviated public notices in newspapers of local circulation and provide the complete public notice content on DEQ's public website. Please indicate your preference by checking the appropriate box below.

- Applicant or permittee agrees to utilize the abbreviated public notice content in the newspaper noted above, with the complete public notice provided for publication on DEQ's public website.
Applicant or permittee declines to utilize the abbreviated public notice and prefers to publish the full notice in the newspaper noted above.

RETURN THIS COMPLETED FORM TO: DEQ Northern Regional Office
Water Permits - ATTN: Susan Mackert

**VPDES DISCHARGE PERMIT APPLICATION
FOR PROCESS WASTEWATER AND
STORMWATER ASSOCIATED WITH
INDUSTRIAL ACTIVITY**

**Marine Corps Base Quantico
Quantico, Virginia**

MCB QUANTICO VPDES PERMIT APPLICATION
VPDES PERMIT NO. VA0002151

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- Attachment: Form 2C Tables A, B, & C – Data for Each Outfall

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- Attachment: 2F.5.2 – Nonstormwater Discharges
- Attachment: Form 2F Tables A, B, & C – Data for Each Outfall

VPDES Permit Application Addendum

1. **Entity to whom the permit is to be issued:** Marine Corps Base Quantico
Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. **State Corporation Commission (SCC) Entity Identification No.:** N/A
If the owner is required to obtain an entity identification number by law (e.g. Incorporated (Inc.), Limited Liability Companies (LLCs), Limited Partnerships (LPs) and certificates of authority). If not applicable to the owner, please indicate "NA" as your answer.

3. **Facility Design Average Flow:** N/A MGD
Industrial Facilities - Maximum 30-day Average Production Level (include units)?

In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? YES NO

If "Yes", please specify the other flow tiers (in MGD) or production levels: _____

4. **Nature of operations generating wastewater:**

Stormwater

_____ % of flow from domestic connections/sources

Number of private residences to be served by the wastewater treatment facility: 0 1-49 50 or more

_____ % of flow from non-domestic connections/sources

5. **Consent to receive electronic mail**

The Department of Environmental Quality (DEQ) may deliver permits, certifications and plan approvals to recipients, including applicants or permittees, by electronically certified mail where the recipients notify DEQ of their consent to receive mail electronically (§ 10.1-1183). Check *only one* of the following to consent to or decline receipt of electronic mail from DEQ as follows:

Applicant or permittee agrees to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity, and to certify receipt of such electronic mail when requested by the DEQ.

Please provide email: john.d.grose@usmc.mil; walter.christensen@usmc.mil

Applicant or permittee declines to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity.

6. **Financial Assurance/Closure**


The Financial Assurance Regulation, 9VAC25-650 applies to all privately owned sewerage systems that treat sewage generated by private residences and discharge more than 1,000 gallons per day and less than 40,000 gallons per day. A private residence is defined as any building, buildings or part of a building owned by a private entity which serves as a permanent residence where sewage is generated. It does not apply to hotels, motels, seasonal camps and industrial facilities that do not serve as permanent residences. The regulation requires that a closure plan, a cost estimate and a financial assurance mechanism be in place. Is financial assurance/cost estimate/closure plan requirement applicable to this facility? YES NO

7. Materials (Chemical) Storage:

Using the table below, provide a list of the chemicals used/stored at this facility, along with the volume stored and the spill/stormwater prevention measures taken to prevent the stored chemicals from reaching state waters.

Chemical	Volume Stored	Spill/Stormwater Prevention Measures
Chemicals vary by industrial site	Volumes vary by industrial site	Measures vary by industrial site
*** Please refer to attached SWPPs for	industrial sites associated with the	permit VA0002151 ***

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Form Approved 03/05/19 OMB No. 2040-0004
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Form 1 NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater GENERAL INFORMATION
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SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))

Activities Requiring an NPDES Permit	1.1	Applicants Not Required to Submit Form 1	
	1.1.1	Is the facility a new or existing publicly owned treatment works ? If yes, STOP. Do NOT complete Form 1. Complete Form 2A. <input checked="" type="checkbox"/> No	1.1.2 Is the facility a new or existing treatment works treating domestic sewage ? If yes, STOP. Do NOT complete Form 1. Complete Form 2S. <input checked="" type="checkbox"/> No
	1.2	Applicants Required to Submit Form 1	
	1.2.1	Is the facility a concentrated animal feeding operation or a concentrated aquatic animal production facility ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2B. <input checked="" type="checkbox"/> No	1.2.2 Is the facility an existing manufacturing, commercial, mining, or silvicultural facility that is currently discharging process wastewater ? <input checked="" type="checkbox"/> Yes → Complete Form 1 and Form 2C. <input type="checkbox"/> No
	1.2.3	Is the facility a new manufacturing, commercial, mining, or silvicultural facility that has not yet commenced to discharge ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2D. <input checked="" type="checkbox"/> No	1.2.4 Is the facility a new or existing manufacturing, commercial, mining, or silvicultural facility that discharges only nonprocess wastewater ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2E. <input checked="" type="checkbox"/> No
	1.2.5	Is the facility a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity or whose discharge is composed of both stormwater and non-stormwater ? <input checked="" type="checkbox"/> Yes → Complete Form 1 and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15) <input type="checkbox"/> No	

SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))

Name, Mailing Address, and Location	2.1	Facility Name		
		Marine Corps Base Quantico		
	2.2	EPA Identification Number		
		110070001339		
	2.3	Facility Contact		
		Name (first and last) J. David Grose	Title Head, Environmental Compliance Section	Phone number (703) 432-1335
		Email address john.d.grose@usmc.mil		
2.4	Facility Mailing Address			
	Street or P.O. box 2006 Hawkins Avenue, 3rd Floor, Rm. 336, Quantico, VA 22134			
	City or town Quantico	State Virginia	ZIP code 22134	

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Form Approved 03/05/19 OMB No. 2040-0004
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Name, Mailing Address, and Location Continued	2.5	Facility Location	
		Street, route number, or other specific identifier B046 NREA, 2006 Hawkins Avenue, 3rd floor, Room 336	
		County name Prince William - Stafford	County code (if known)
		City or town Quantico,	State Virginia

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))

SIC and NAICS Codes	3.1	SIC Code(s)	Description (optional)
		9711	National Security Marine Corps
	3.2	NAICS Code(s)	Description (optional)
		928110	National Security, Marine Corps, Military Bases and Camps

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))

Operator Information	4.1	Name of Operator
		United States Marine Corps
	4.2	Is the name you listed in Item 4.1 also the owner? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	4.3	Operator Status <input checked="" type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input type="checkbox"/> Other public (specify) _____ <input type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____
	4.4	Phone Number of Operator (703) 432-0539

Operator Information Continued	4.5	Operator Address		
		Street or P.O. Box B 406 NREA, 2006 Hawkins Avenue, 3rd Floor, Rm 336		
		City or town Quantico	State Virginia	ZIP code 22134
		Email address of operator john.d.grose@usmc.mil		

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))

Indian Land	5.1	Is the facility located on Indian Land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Form Approved 03/05/19 OMB No. 2040-0004
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SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits	6.1	Existing Environmental Permits (check all that apply and print or type the corresponding permit number for each)		
		<input checked="" type="checkbox"/> NPDES (discharges to surface water) See attached list	<input checked="" type="checkbox"/> RCRA (hazardous wastes) see attached list	<input type="checkbox"/> UIC (underground injection of fluids)
		<input type="checkbox"/> PSD (air emissions)	<input checked="" type="checkbox"/> Nonattainment program (CAA) see attached list	<input type="checkbox"/> NESHAPs (CAA)
	<input type="checkbox"/> Ocean dumping (MPRSA)	<input type="checkbox"/> Dredge or fill (CWA Section 404)	<input checked="" type="checkbox"/> Other (specify) see attached list	

SECTION 7. MAP (40 CFR 122.21(f)(7))

Map	7.1	Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CAFO—Not Applicable (See requirements in Form 2B.)
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SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business	8.1	Describe the nature of your business. To develop and provide training to major elements of the U.S. Marine Corps officers and senior enlisted personnel. To provide helicopter support for the U.S. Government Executive Branch. To develop equipment doctrine, tactics and techniques for weapons and weapons systems to be used by landing forces in amphibious operations. To maintain and operate facilities and provide administrative/logistical support for the installation.
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SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Cooling Water Intake Structures	9.1	Does your facility use cooling water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 10.1.
	9.2	Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.)

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

Variance Requests	10.1	Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)
		<input type="checkbox"/> Fundamentally different factors (CWA Section 301(n)) <input type="checkbox"/> Water quality related effluent limitations (CWA Section 302(b)(2)) <input type="checkbox"/> Non-conventional pollutants (CWA Section 301(c) and (g)) <input type="checkbox"/> Thermal discharges (CWA Section 316(a)) <input checked="" type="checkbox"/> Not applicable

EPA Identification Number
110070001339


NPDES Permit Number
VA0002151

Facility Name
Marine Corps Base Quantico

Form Approved 03/05/19
OMB No. 2040-0004

SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

11.1	<p>In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.</p>	
	Column 1	Column 2
	<input checked="" type="checkbox"/> Section 1: Activities Requiring an NPDES Permit	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 2: Name, Mailing Address, and Location	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 3: SIC Codes	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 4: Operator Information	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 5: Indian Land	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 6: Existing Environmental Permits	<input checked="" type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 7: Map	<input checked="" type="checkbox"/> w/ topographic map <input type="checkbox"/> w/ additional attachments
	<input checked="" type="checkbox"/> Section 8: Nature of Business	<input checked="" type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 9: Cooling Water Intake Structures	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 10: Variance Requests	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 11: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments
11.2	<p>Certification Statement</p> <p><i>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.</i></p>	
	Name (print or type first and last name)	Official title
	WALTER CHRISTENSEN	ENVIRONMENTAL DIRECTOR
	Signature	Date signed
		20221219

MCB Quantico VPDES Permit Renewal
Form 1, Section 6 – Existing Environmental Permits

A. NPDES (Discharges to Surface Water)

VA 0028371	Camp Upshur Sewage Treatment Plant
VA 0028363	Mainside Sewage Treatment Plant
VAR 10	General Construction Permits for Stormwater
VAR 040069	Municipal Separate Storm Sewer System

B. UIC (Underground Injection of Fluids)

None

C. RCRA (Hazardous Wastes)

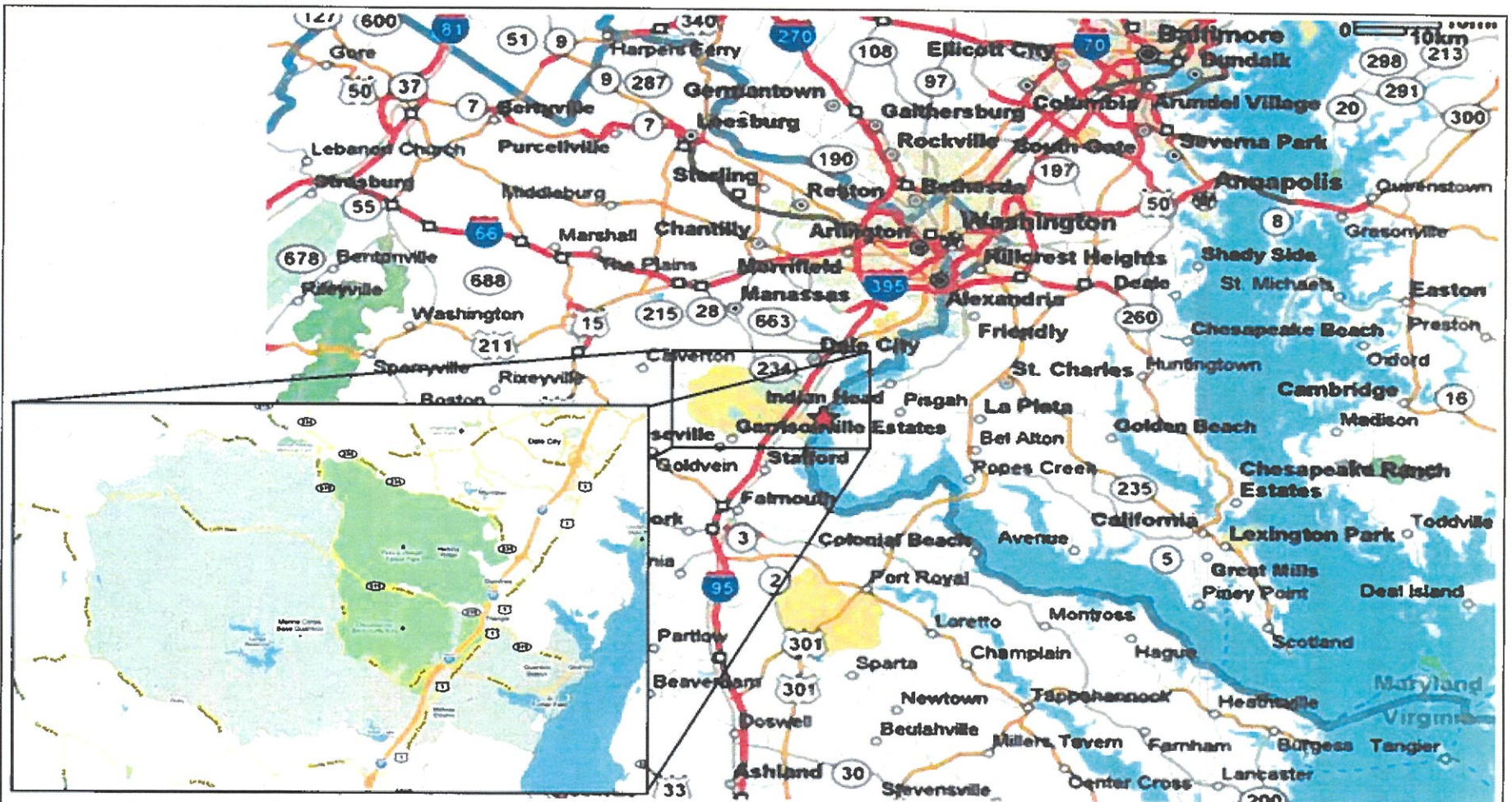
VA1170024722 Hazardous Waste Landfill Post Closure Permit

D. Air (Air Emissions from Proposed Sources)

70267 CHP
70267 CDC

E. Other (Specify)

6153675	Waterworks Operation Permit – Mainside
VA 411	Solid Waste Management Permit
STFRD-002	Stafford County, Virginia, Significant Industrial User Permit (Categorical)
VA6153063	Camp Upshur Water System
VA6153060	Camp Barrett Water System

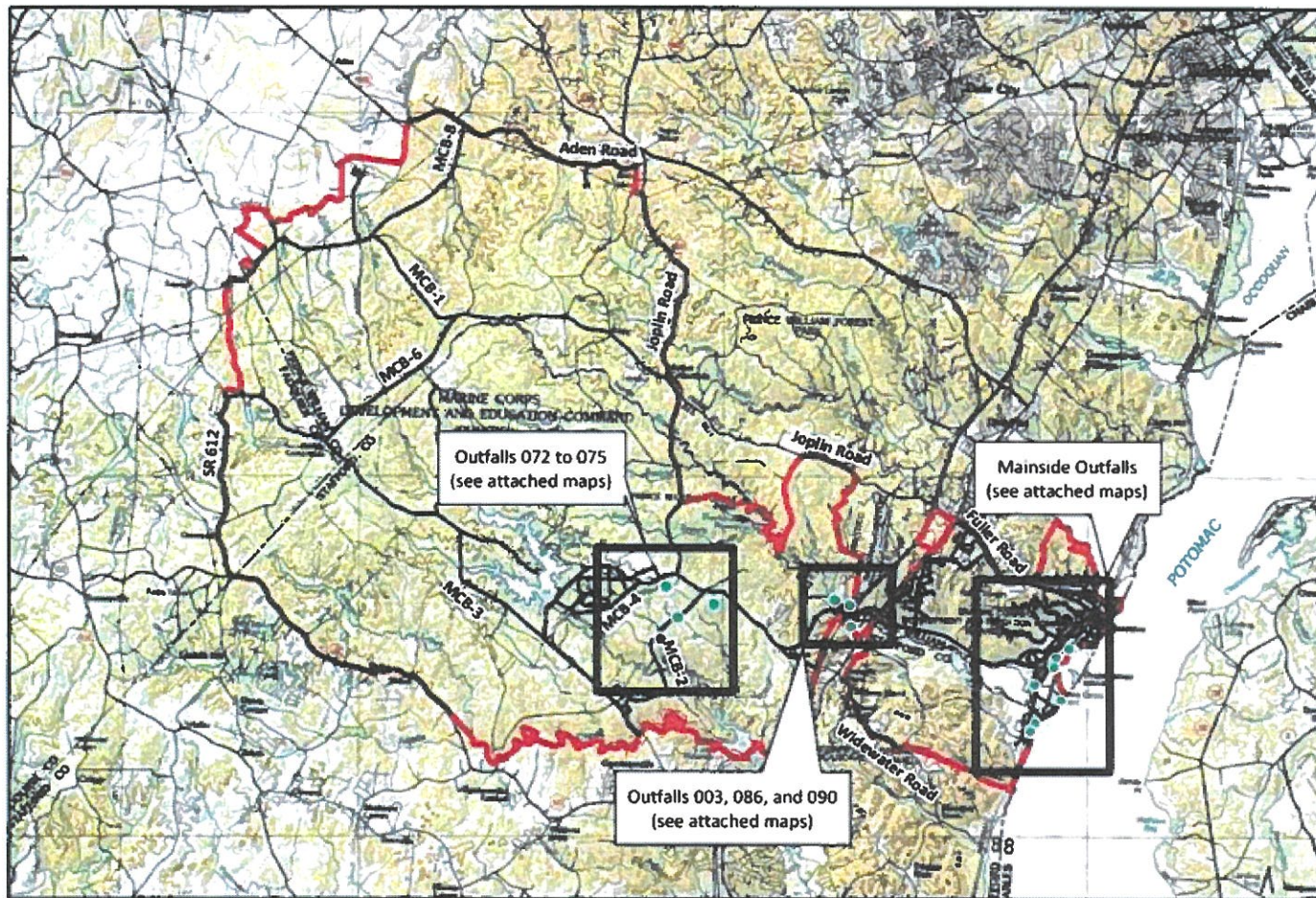


Source: Google Earth Pro, Under License



LOCATION MAP
 VPDES Permit Renewal
 Marine Corp Base Quantico, Virginia

Figure F1.7.1.1



Source: USGS Topographic Maps.
 USGS Quads: 7.5 minute series
 Independent Hill
 Joplin
 Stafford
 Quantico
 Somerville
 Nokesville
 Widewater

Legend

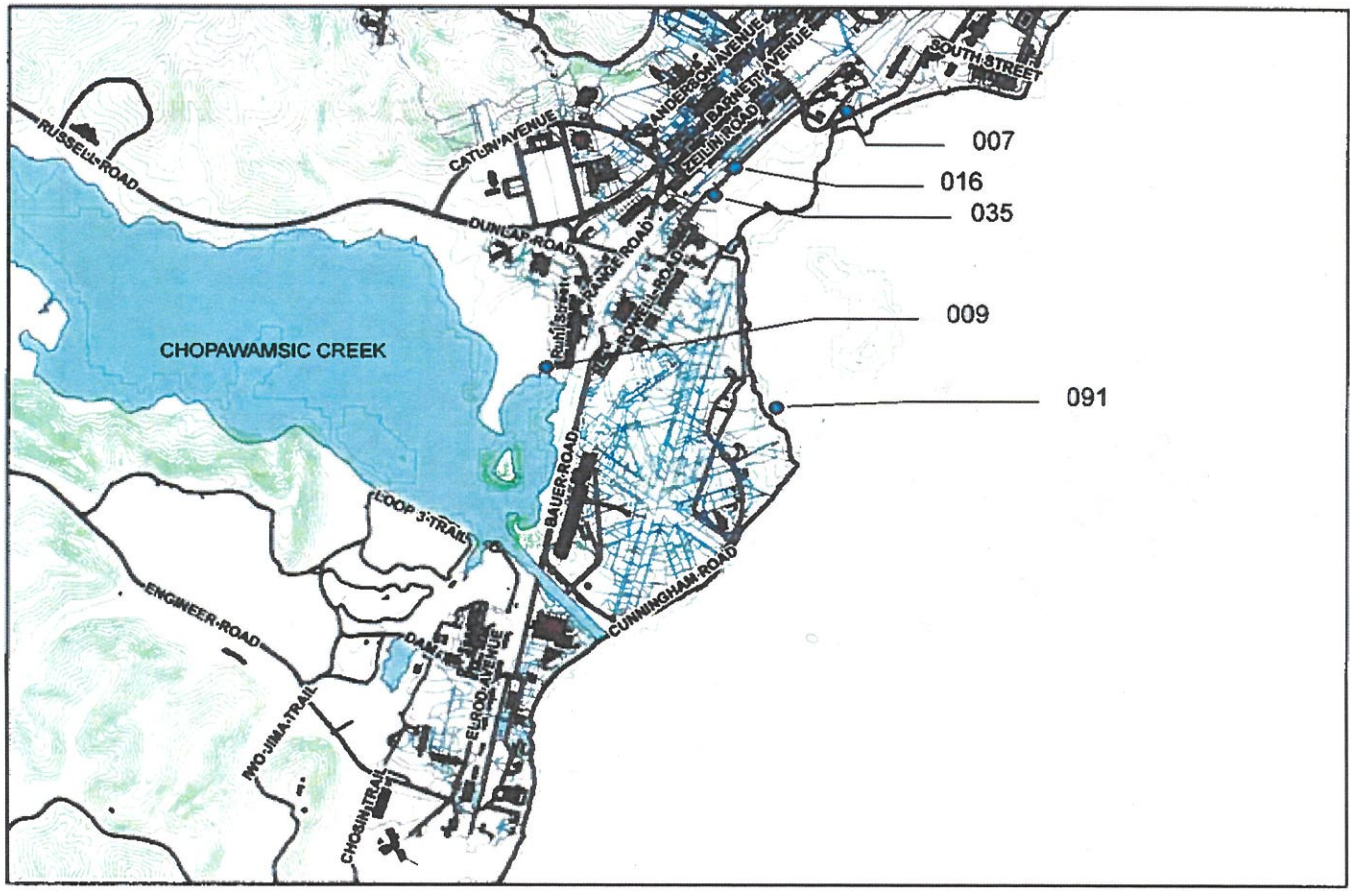
- Permitted Outfalls
- Road Centerlines
- Installation Area



OUTFALL LOCATION MAP

VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

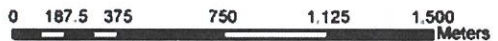
Figure F1.7.1.2



Outfall 007:	Lat-38.30.54	Long-77.17.55
Outfall 016:	Lat-38.30.47	Long-77.18.11
Outfall 035:	Lat-38.30.31	Long-77.18.00
Outfall 009:	Lat-38.30.21	Long-77.18.30
Outfall 091:	Lat-38.30.13	Long-77.18.03

Legend

- Potomac River Bank
- Storm Sewer Line
- 10ft Contours USGS
- Stucture Area
- VPDES Outfalls

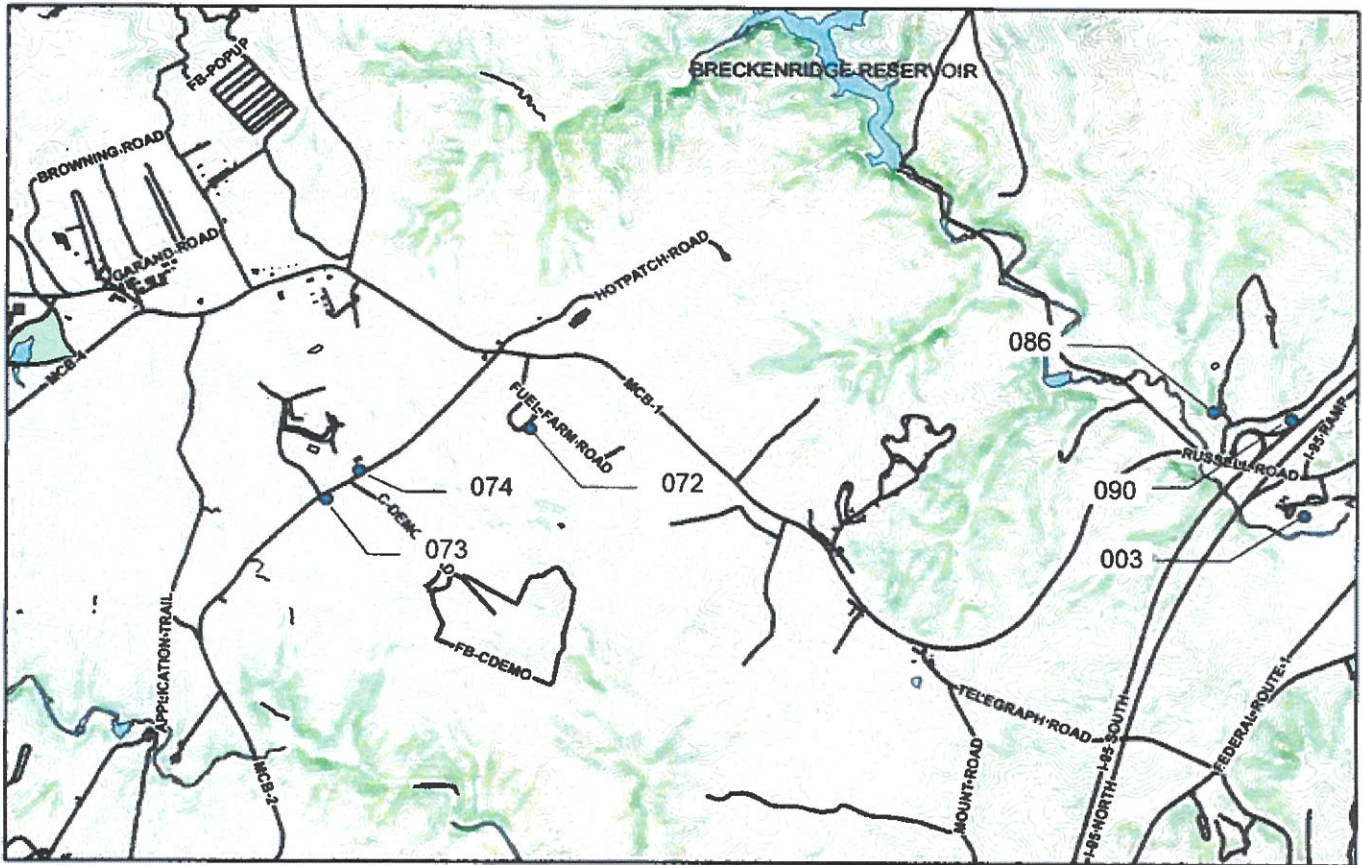


Source: Quantico GIS, 2004.



MAINSIDE VPDES OUTFALLS
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure F1.7.1.3



Outfall 074:	Lat-38.31.23	Long-77.25.19
Outfall 073:	Lat-38.31.16	Long-77.24.26
Outfall 072:	Lat-38.31.26	Long-77.24.40
Outfall 086:	Lat-38.31.31	Long-77.22.23
Outfall 090:	Lat-38.31.30	Long-77.22.06
Outfall 003:	Lat-38.31.09	Long-77.22.08

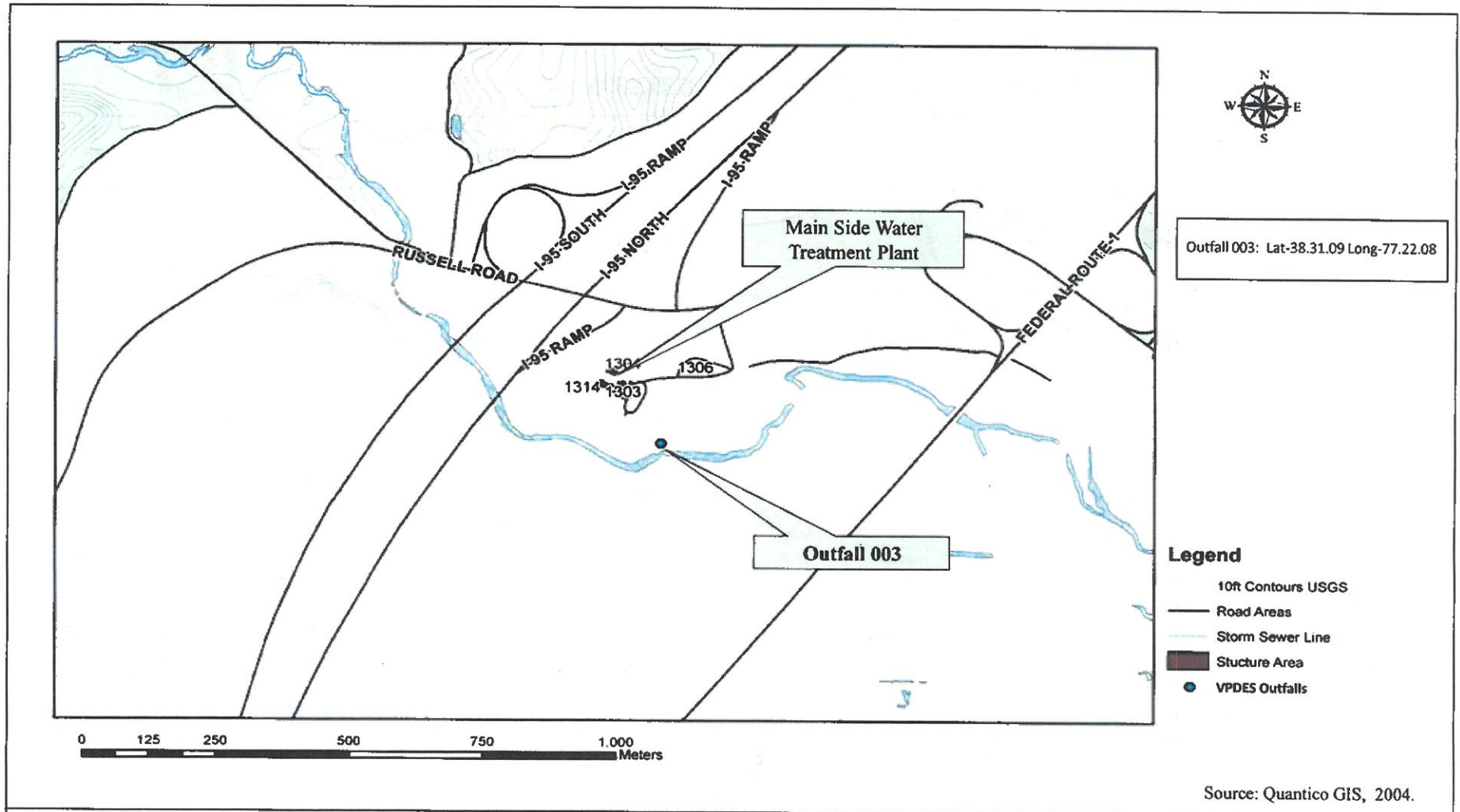
- Legend**
- 10ft Contours USGS
 - Road Areas
 - Storm Sewer Line
 - Structure Area
 - VPDES Outfalls

Source: Quantico GIS, 2004.



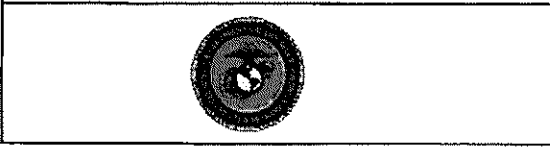
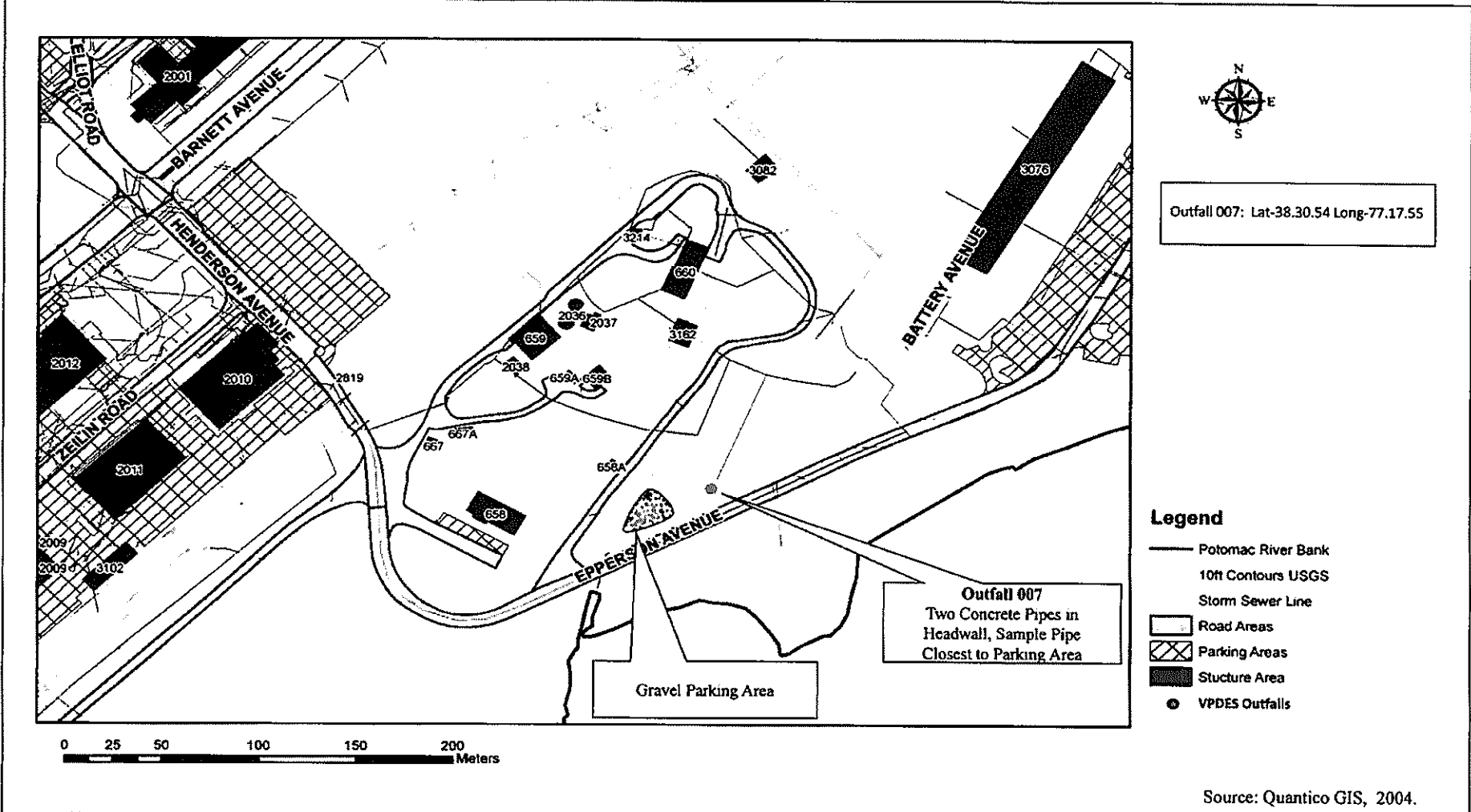
WESTERN QUANTICO VPDES OUTFALLS
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure F1.7.1.4



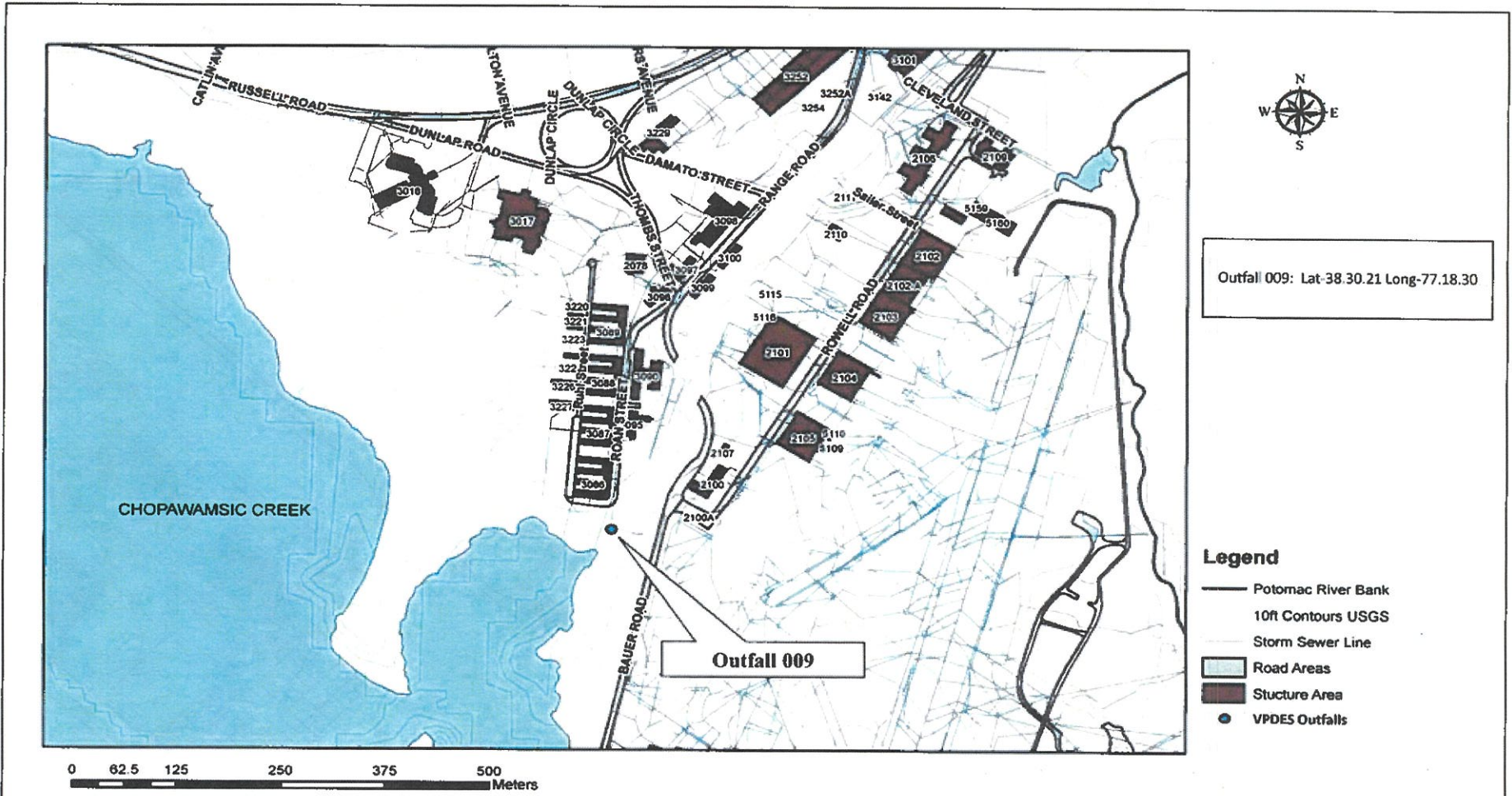
VPDES OUTFALL 003
 VPDES Permit Renewal
 Marine Corp Base Quantico, Virginia

Figure F1.7.1.5



VPDES OUTFALL 007
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure F1.7.1.6



Outfall 009: Lat-38.30.21 Long-77.18.30

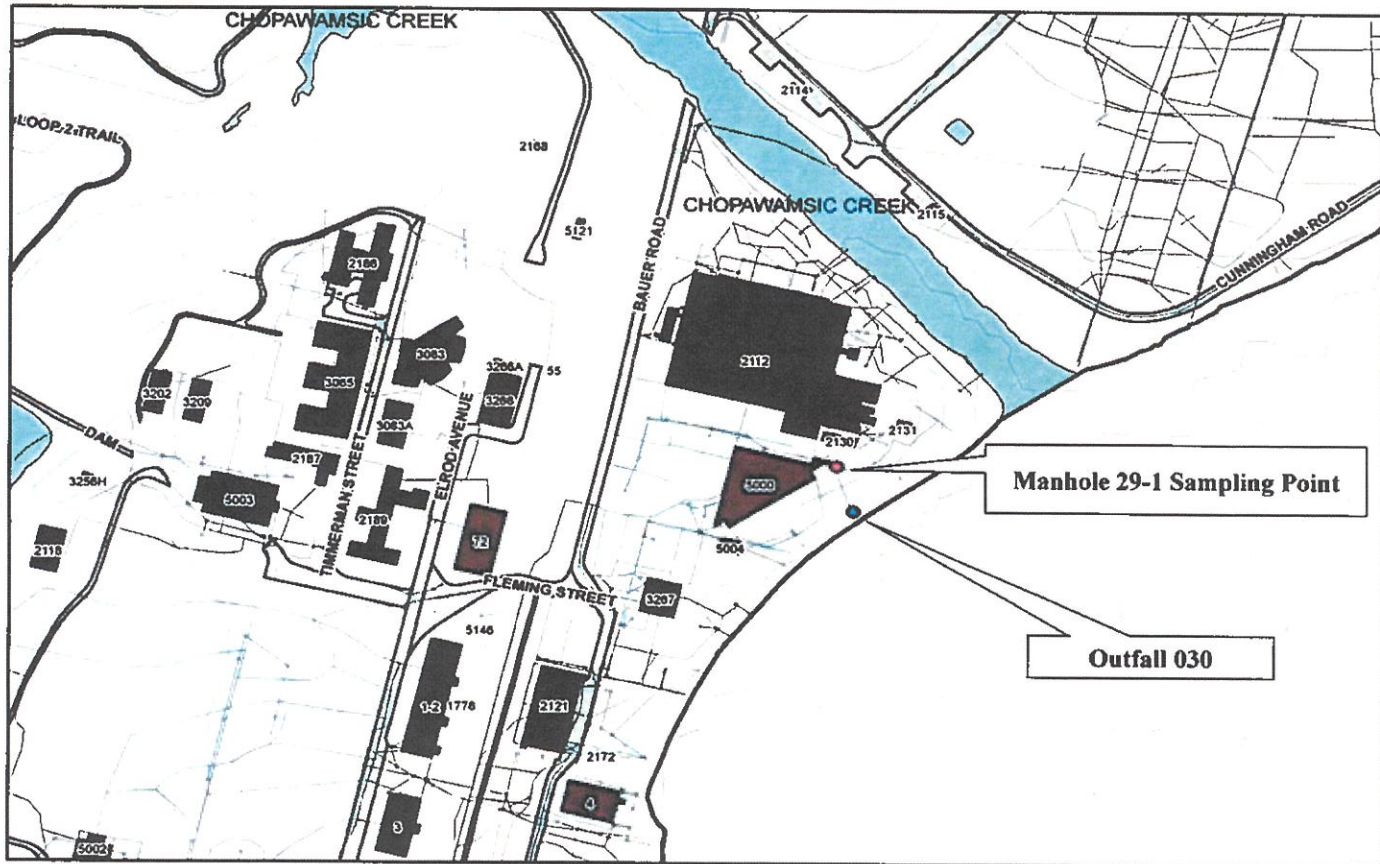
- Legend**
- Potomac River Bank
 - 10ft Contours USGS
 - Storm Sewer Line
 - ▭ Road Areas
 - ▭ Structure Area
 - VPDES Outfalls

Source: Quantico GIS, 2004.



VPDES OUTFALL 009
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

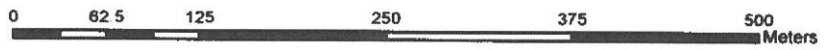
Figure F1.7.1.7



Outfall 030: Lat-38.30.40 Long-77.18.05

Manhole 29-1 Sampling Point

Outfall 030



Legend

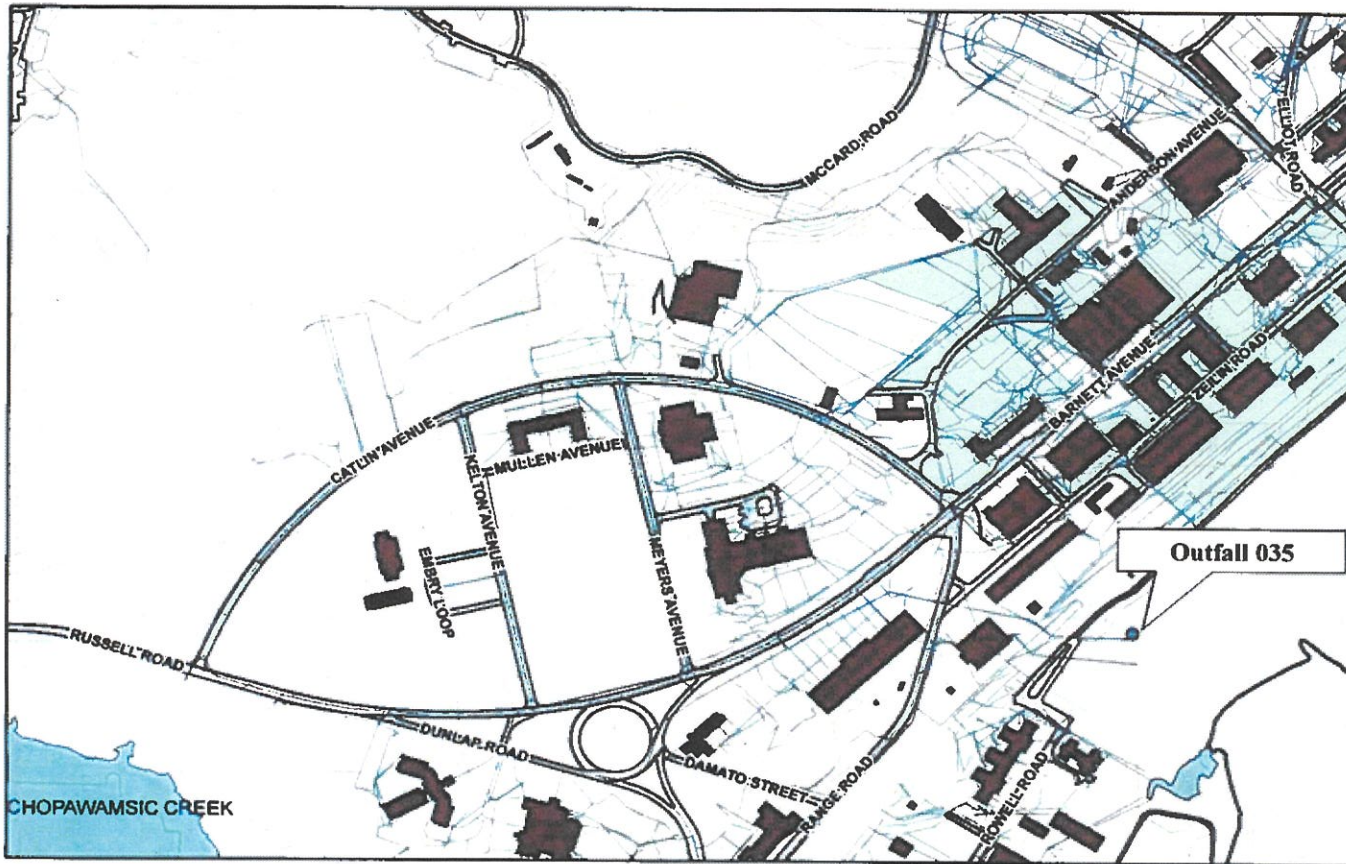
- Potomac River Bank
- 10ft Contours USGS
- Storm Sewer Line
- Road Areas
- Stucture Area
- VPDES Outfalls
- Alternate Sampling Location
- Drainage Area

Source: Quantico GIS, 2004.



VPDES OUTFALL 030
 VPDES Permit Renewa 2022
 Marine Corp Base Quantico, Virginia

Figure F1.7.1.8



Outfall 035: Lat-38.30.31 Long-77.18.00

Outfall 035

Legend

- Potomac River Bank
- 10ft Contours USGS
- - - Storm Sewer Line
- ▭ Road Areas
- ▭ Structure Area
- VPDES Outfalls
- ▭ Drainage Area

0 62.5 125 250 375 500 Meters

Source: Quantico GIS, 2004.



VPDES OUTFALL 035
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure F1.7.1.9

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Facilities Maintenance

Revised May 2021

FMS – Facilities Maintenance Building 3252

FACILITY OPERATIONS:

Facilities Maintenance located on Range Road consists of multiple trades in one complex such as a sign/paint shop, electric shop, machine shop, grounds/maintenance shop, and refrigeration shop. Industrial storm water pollutant source activities performed at Facilities Maintenance include:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Outdoor Painting Operations
- Vehicle/Equipment Maintenance/Staging
- Loading and Unloading of Hazardous Material
- Pesticide/Herbicide Applications
- On-Site Welding Operations

All equipment maintenance is completed indoors. Any vehicle/equipment washing is performed in the designated area at Guad Maintenance. Facilities Maintenance is also responsible for the salt storage facility located on South Westside of the Base in Building 3236. Building 3252 has a hazardous waste satellite site.

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Emergency Coordinator	Title	Phone	Fax
Shawn Bowman	Deputy Supervisor	703-784-1492	703-784-4841
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: UT to Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|----------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • Shower Station with Eyewash |
| • Fire Extinguishers | • Spill kits and Emergency kits |
| • First aid kits | • Telephone Communications |
| • Leak Detection System (Visual) | • Emergency Alarm |

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Revised May 2021

**Storm Water Pollution Prevention Plan
MCB Quantico**

Subject: Standard Operating Procedures – FMS – Facilities Maintenance	Revised May 2021
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SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol sprays and 5 to 55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Flammable lockers and secondary containment pallets	Self Contained	Potomac River
Hazardous Waste Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Concrete berm within hazardous waste storage shed	Confined in Hazardous Waste Storage Shed	Potomac River
Above Ground Storage Tank	Two 250-gallon	Gasoline	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	Two 500-gallon	Used Oil	Concrete dike within Hazardous Waste Storage Shed	Confined within Hazardous Waste Storage Shed	Potomac River
Above Ground Storage Tank	Two 1,000-gallon	Diesel	Double wall construction	Self Contained	Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Facilities Maintenance

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage shed when not in use• Keep the used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep the used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill
OUTDOOR PAINTING OPERATIONS
<ul style="list-style-type: none">• Place drop cloths over drains in the immediate area• Place plastic tarps on the ground in the painting area• Perform all painting operations inside the paint booth
VEHICLE/EQUIPMENT MAINTENANCE/STAGING
<ul style="list-style-type: none">• Perform all vehicle/equipment washing in the designated wash down area• Perform all equipment maintenance indoors• Use biodegradable detergents when washing vehicle/equipment

Revised May 2021

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – FMS – Facilities Maintenance	Revised May 2021
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<ul style="list-style-type: none">• Stage of vehicles/equipment on impervious surfaces in designated workcenter areas only; use drip pans when necessary• Conduct daily visual inspections for the staging vehicles/equipment area
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Operator needs to be present throughout the duration of the unloading process• Keep spill kit in the immediate area in the event of a spill• Cover area storm sewer immediately adjacent to loading dock during HM transfer operations
PESTICIDE/HERBICIDE APPLICATION
<ul style="list-style-type: none">• Implement the Base Pesticide Management Plan and Base Nutrient Management Plan• Follow EPA label recommendations• Only apply during dry weather conditions
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Guad Maintenance

Revised May 2021

FMS – Guad Maintenance Building 27001, 27002

FACILITY OPERATIONS:

Guad Maintenance is located on Route 4 adjacent to Shop 71 Westside Roads and Grounds. The primary responsibilities of the facility are maintenance and services of grounds and roads throughout the Base consisting of grass cutting, snow removal, and general road maintenance. Industrial storm water pollutant source activities performed at Guad Maintenance include:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Oil Water Separator
- Vehicle/Equipment Maintenance/Staging/Washing
- Loading and Unloading of Hazardous Materials

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
Shawn Bowman	Deputy Supervisor	703-784-1492	703-784-4841
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body:	UT to Beaverdam Run/Smith Lake/Aquia Creek/Potomac River
-----------------------	--

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|--|--|
| <ul style="list-style-type: none"> • Absorbent pads and speedy-dry • Leak detection system (Visual) • Emergency alarm • Fire Extinguishers | <ul style="list-style-type: none"> • First aid kits • Shower Station with Eyewash • Spill kits and Emergency kits • Telephone Communications |
|--|--|

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Guad Maintenance

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol sprays and 5 to 55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Flammable lockers and secondary containment pallets	To Building Floor or Ground	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River
Hazardous Waste Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Concrete berm within hazardous waste storage shed	Confined in Hazardous Waste Storage Shed	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River
Above Ground Storage Tank	250-gallon	Diesel	Double wall construction	Self Contained	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River
Above Ground Storage Tank	1,000-gallon	Diesel	Double wall construction	Self Contained	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River
Above Ground Storage Tank	Two 2,000-gallon	Diesel	Double wall construction	Self Contained	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River
Above Ground Storage Tank	500-gallon	Used Oil	Concrete dike within Hazardous Waste Storage Shed	Confined in Hazardous Waste Storage Shed	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River
Above Ground Storage Tank	10,000-gallon	Diesel	Double wall construction	Self Contained	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Guad Maintenance

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)

GENERAL OUTSIDE AREA

- Good Housekeeping Practices – keep area free of trash and debris
- Keep spill kits and emergency kits in accessible areas
- Keep all lids on dumpsters closed when not being filled or emptied
- Conduct maintenance of government vehicles and equipment indoors to the extent practicable; all maintenance of government vehicles and equipment is to be performed by Construction Equipment Repair (CER)
- Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted

HAZARDOUS MATERIAL STORAGE

- Lock HM storage shed when not in use
- Keep the used oil tank secondary containment free of debris
- Keep drainage valves in the closed position at all times except when discharging
- Document and visually inspect discharge collection water prior to release
- Store HM containers on impervious surfaces with containment and cover
- Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums
- Properly label all containers
- Conduct daily visual inspections of the HM storage shed

HAZARDOUS WASTE STORAGE

- HW storage shed must remain locked when not in use
- Keep the used oil tank secondary containment free of debris
- Keep drainage valves in the closed position at all times except when discharging
- Document and visually inspect discharge collection water prior to release
- Store HW containers on impervious surfaces with containment and cover
- Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums
- Properly label all containers with waste material and date
- Conduct daily visual inspections of the HW storage shed

FUEL DISPENSING OPERATIONS

- Do not “top off” vehicles/equipment (i.e., overfilled)
- Conduct daily visual inspections of the fuel dispensing operations
- Keep a spill kit in the immediate area in the event of a spill
- Fuel Operator must be present throughout the duration of the unloading process

OIL WATER SEPARATOR

- Inspect oil/water separator quarterly and document
- Clean oil/water separator annually or as needed

VEHICLE/EQUIPMENT STAGING/WASHING

- Perform all vehicle/equipment washing in the designated wash down area

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Guad Maintenance

Revised May 2021

- Perform all equipment maintenance indoors
- Use biodegradable detergents when washing vehicle/equipment
- Stage of vehicles/equipment on impervious surfaces in designated workcenter areas only; use drip pans when necessary
- Conduct daily visual inspections for the staging vehicles/equipment area

LOADING AND UNLOADING OPERATIONS

- Operator needs to be present throughout the duration of the unloading process
- Keep spill kit in the immediate area in the event of a spill
- Cover area storm sewer immediately adjacent to loading dock during HM transfer operations

SALT STORAGE

- Conduct daily visual inspections of the salt storage facility

AUDITS

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: **Standard Operating Procedures – FMS – MAINSIDE STP**

Revised May 2021

FMS – Mainside Sewage Treatment Plant (STP) Building 660

FACILITY OPERATIONS:

The Mainside STP, located off Epperson Avenue, is the primary wastewater treatment facility at the Base with an average daily influent of 1.2 million gallons. The secure fenced area consists of multiple storage and control buildings and above ground storage tanks. Industrial storm water pollutant source activities performed at the Sewage Treatment Plant include:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Oil Water Separator
- Loading and Unloading of Hazardous Material

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Emergency Coordinator	Title	Phone	Fax
Shawn Bowman	Deputy Supervisor	703-784-1492	703-784-4841
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: UT to Potomac River Bight/Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|-----------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • First aid kits |
| • Automatic leak detection system | • Shower Station with Eyewash |
| • Emergency alarm | • Spill kits and Emergency kits |
| • Fire Extinguishers | • Telephone Communications |

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – MAINSIDE STP

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Bags and 55-gallon drums	Water Treatment Chemicals	Contained within Building	To Building Floor or Ground	Potomac River
Hazardous Material Storage	5 to 55-gallon drums	Greases, Fuels, Oils	Conex and flammable lockers	Self Contained	Potomac River
Above Ground Storage Tank	6,000-gallon	Acetic Acid	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	1,000-gallon	Diesel	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	Two 12,056-gallon	Sodium Hydroxide	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	Two 1,500-gallon	Sodium Hydroxide	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	Two 1,500-gallon	Alum	Double wall construction	Self Contained	Potomac River

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – MAINSIDE STP

Revised May 2021

Hazardous Material Storage	Bags and 55-gallon drums	Water Treatment Chemicals	Contained within Building	To Building Floor or Ground	Potomac River
Hazardous Material Storage	5 to 55-gallon drums	Greases, Fuels, Oils	Conex and flammable lockers	Self Contained	Potomac River
Above Ground Storage Tank	6,000-gallon	Acetic Acid	Double wall construction	Self Contained	Potomac River

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – MAINSIDE STP

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• HM storage shed must remain locked when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections for the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep the used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill• Fuel Operator must be present throughout the duration of the unloading process
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Operator needs to be present throughout the duration of the unloading process• Keep spill kit in the immediate area in the event of a spill• Cover area storm sewer immediately adjacent to loading dock during HM transfer operations
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Water Treatment Plant	Revised May 2021
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FMS – Water Treatment Plant Building 1303					
FACILITY OPERATIONS:					
<p>The Water Treatment Plant is located off Russell Road adjacent to I-95. The security locked fenced area consists of multiple storage and control buildings and above ground storage tanks. Industrial storm water pollutant source activities performed at the Water Treatment Plant include:</p> <ul style="list-style-type: none"> • Hazardous Material and Hazardous Waste Storage • Loading and Unloading of Hazardous Material • Fuel Dispensing Operations • Oil Water Separator 					
EMERGENCY INCIDENT NOTIFICATIONS:		<ul style="list-style-type: none"> • MCB Quantico Fire Department: 911 • Immediate Supervisor 			
FACILITY CONTACT(S):					
Facility Emergency Coordinator	Title	Phone	Fax		
Shawn Bowman	Deputy Supervisor	703-784-1492	703-784-4841		
NREAB		703-784-4030	703-784-4953		
SPILL PATHWAY:					
Potential Water Body:		Chopawamsic Creek			
SPILL RESPONSE EQUIPMENT MATERIALS:					
<ul style="list-style-type: none"> <li style="width: 50%;">• Absorbent pads and speedy-dry <li style="width: 50%;">• First aid kits <li style="width: 50%;">• Automatic leak detection system <li style="width: 50%;">• Shower Station with Eyewash <li style="width: 50%;">• Emergency alarm <li style="width: 50%;">• Spill kits and Emergency kits <li style="width: 50%;">• Fire Extinguishers <li style="width: 50%;">• Telephone Communications 					
SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist					
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 1) Stop the flow 2) Shut off / extinguish ignition source 3) Contain spill 4) Dike or cover sewers </td> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 5) Cleanup/recover spill 6) Arrange for proper disposal 7) Always document incident </td> </tr> </table>				<ol style="list-style-type: none"> 1) Stop the flow 2) Shut off / extinguish ignition source 3) Contain spill 4) Dike or cover sewers 	<ol style="list-style-type: none"> 5) Cleanup/recover spill 6) Arrange for proper disposal 7) Always document incident
<ol style="list-style-type: none"> 1) Stop the flow 2) Shut off / extinguish ignition source 3) Contain spill 4) Dike or cover sewers 	<ol style="list-style-type: none"> 5) Cleanup/recover spill 6) Arrange for proper disposal 7) Always document incident 				

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Water Treatment Plant	Revised May 2021
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SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Bags and 55-gallon drums	Water Treatment Chemicals	Contained within Building	To Building Floor or Ground	Building Floor
Above Ground Storage Tank	Unknown	Liquid Alum	Contained within Building	Building Floor	Building Floor
Above Ground Storage Tank	Unknown	Sodium Hydroxide	Contained within Building	Building Floor	Building Floor
Above Ground Storage Tank	200-gallon	Diesel	Double wall construction	Self Contained	Chopawamsic Creek to Potomac River
Above Ground Storage Tank	Two 3,000-gallon	Diesel	Double wall construction	Self Contained	Chopawamsic Creek to Potomac River
Above Ground Storage Tank	100-gallon	Diesel	Double wall construction	Self Contained	Chopawamsic Creek to Potomac River
Above Ground Storage Tank	500-gallon	Diesel	Double wall construction	Self Contained	Chopawamsic Creek to Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Water Treatment Plant

Revised May 2021

Above Ground Storage Tank	8,400-gallon	Sodium Hydroxide	Double wall construction with concrete dike	Self Contained	Chopawamsic Creek to Potomac River
Above Ground Storage Tank	12,000-gallon	Liquid Alum	Contained within Building	Building Floor	Building Floor

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Water Treatment Plant

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• HM storage must remain locked when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections for the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill• Fuel Operator must be present throughout the duration of the unloading process
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Operator needs to be present throughout the duration of the unloading process• Keep spill kit in the immediate area in the event of a spill• Cover area storm sewer immediately adjacent to loading dock during HM transfer operations

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCCS – Auto Hobby Shop

Revised Nov 2022

MCCS – Auto Hobby Shop Building 2080

FACILITY OPERATIONS:

The Auto Hobby Shop, for personal vehicle maintenance, is located on Anderson Avenue with storm water drainage from the shop and surrounding area entering a storm water management basin before discharge to the Potomac River through a permitted outfall (Outfall 016). Industrial storm water pollutant source activities being performed at the Auto Hobby Shop include:

- Hazardous Material and Hazardous Waste Storage
- Vehicle Maintenance/Staging
- Oil Water Separator
- Loading and Unloading of Hazardous Material

All vehicle maintenance and storage of hazardous material are performed outside the Auto Hobby Shop in a covered area. All floor drains inside the Auto Hobby Shop are attached to an oil water separator that discharges to stormwater. This site has a <90 day site.

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Emergency Coordinator	Title	Phone	Fax
Adam Pahlavaninejad	Manager	703-784-2729	703-784-2174
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|---------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • Shower Station with Eyewash |
| • Fire Extinguishers | • Spill kits and Emergency kits |
| • First aid kits | • Telephone Communications |

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCCA – Auto Hobby Shop

Revised Nov 2022

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material / Waste Storage	5 to 55-gallon drums	Antifreeze, Degreasers, Greases, Paints, Solvents, Contaminated Fuel, Used Fuel Filters, Used Bead Blast Media	Flammable lockers and secondary containment pallets	Confined within Auto Hobby	Building Floor
Hazardous Waste Storage and Used Material Storage	5 to 55-gallon drums	Used Antifreeze, Used Batteries, Used Speedy Dry, Used Oil	Storage Shed	Confined in Hazardous Waste Storage Shed	SWM Pond to Potomac River
Above Ground Storage Tank	500-gallon	Used Oil	Concrete dike within Hazardous Waste Storage Shed	Confined in Hazardous Waste Storage Shed	SWM Pond to Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCCS – Auto Hobby Shop

Revised Nov 2022

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections for the HM storage
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep the used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
VEHICLE MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform all vehicle/equipment washing in the designated wash down area• Perform all equipment maintenance indoors• Use biodegradable detergents when washing vehicle/equipment• Stage of vehicles/equipment on impervious surfaces in designated workcenter areas only; use drip pans when necessary• Conduct daily visual inspections for the staging vehicles/equipment area
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Operator needs to be present throughout the duration of the unloading process• Keep spill kit in the immediate area in the event of a spill• Cover area storm sewer immediately adjacent to loading dock during HM transfer operations
AUDITS

Revised Nov 2022

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: **Standard Operating Procedures – MCCS – Auto Hobby Shop**

Revised Nov 2022

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

STORM WATER MANAGEMENT BASIN

- Inspect the dry pond located adjacent to the AHS quarterly to ensure that it is functioning properly

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Fuel Farm

Revised May 2021

Logistics G-4 – Fuel Farm Building 27263

FACILITY OPERATIONS:

The Fuel Farm is located on Fuel Farm Road off of MCB-1. The security locked fenced area consists of a personnel building containing fuel farm controls, an asphalt paved service road, pumps and equipment pads with associated above ground fuel piping, above ground storage tanks, a tanker truck loading and unloading area, and a tank truck parking area. Containment surrounds all storage tanks. Industrial storm water pollutant source activities performed at Fuel Farm include:

- Hazardous Material Storage
- Fuel Dispensing Operations
- Oil Water Separator

Storm water collected via the berms and fueling area discharge to an oil water separator and then to two permitted outfalls (Outfall 072 & 721). These outfalls are sampled quarterly for flow, pH, and TPH.

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
William Snow	Supervisor	703-784-5372	
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: Beaverdam Run/Smith Lake/Aquia Creek/Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|---|--|
| <ul style="list-style-type: none"> • Absorbent pads and speedy-dry • Automatic leak detection system • Emergency alarm • Fire Extinguishers | <ul style="list-style-type: none"> • First aid kits • Shower Station with Eyewash • Spill kits and Emergency kits • Telephone Communications |
|---|--|

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|--|---|
| <ol style="list-style-type: none"> 1) Stop the flow 2) Shut off/ extinguish ignition source 3) Contain spill 4) Dike or cover sewers | <ol style="list-style-type: none"> 5) Cleanup/recover spill 6) Arrange for proper disposal 7) Always document incident |
|--|---|

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – G-4 – Fuel Farm

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol sprays and 5-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Contained within Storage Shed	Confined in compound area and will flow to OWS	Unnamed Tributary of Beaverdam Run to Potomac River
Hazardous Waste Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Contained within Storage Shed	Confined in compound area and will flow to OWS	Unnamed Tributary of Beaverdam Run to Potomac River
Above Ground Storage Tank	100-gallon	Diesel	Double wall construction	Self Contained	Unnamed Tributary of Beaverdam Run to Potomac River
Above Ground Storage Tank	25,000-gallon	JP-8	Earthen berms	Earthen Berm to OWS	Unnamed Tributary of Beaverdam Run to Potomac River
Above Ground Storage Tank	Two 75,000-gallon	Diesel	Earthen berms	Earthen Berm to OWS	Unnamed Tributary of Beaverdam Run to Potomac River
Above Ground Storage Tank	Three 75,000-gallon	JP-8	Earthen berms	Earthen Berm to OWS	Unnamed Tributary of Beaverdam Run to Potomac River
Above Ground Storage Tank	12,500-gallon	Gasoline	Earthen berms	Earthen Berm to OWS	Unnamed Tributary of Beaverdam Run to Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Fuel Farm	Revised May 2021
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Above Ground Storage Tank	25,000-gallon	Gasoline	Earthen berms	Earthen Berm to OWS	Unnamed Tributary of Beaverdam Run to Potomac River
Above Ground Storage Tank	100-gallon	JP-8	Concrete dike	Self Contained	Unnamed Tributary of Beaverdam Run to Potomac River
Above Ground Storage Tank	100-gallon	Used Gasoline	Double wall construction	Self Contained	Unnamed Tributary of Beaverdam Run to Potomac River
Above Ground Storage Tank	400-gallon	Diesel	Double wall construction	Self Contained	Unnamed Tributary of Beaverdam Run to Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Fuel Farm

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage shed when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Fuel Operator must be present throughout the duration of the unloading process• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Pool Transport

Revised May 2021

G-4 – Motor Transport Building 3015, 3015A, 3016

FACILITY OPERATIONS:

The Motor Transport Operations lot is located behind NREAB off of Anderson Avenue. This fenced area consists of a large parking area for Base transportation (e.g., school buses and fleet vehicles). Industrial storm water pollutant source activities performed at the Motor Transport Operations include:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Oil Water Separator
- Vehicle/Equipment Staging/Washing

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
Andre McDonald	Supervisor	703-784-2576	---
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|-----------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • First aid kits |
| • Automatic leak detection system | • Shower Station with Eyewash |
| • Emergency alarm | • Spill kits and Emergency kits |
| • Fire Extinguishers | • Telephone Communications |

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|---|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off/ extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Pool Transport	Revised May 2021
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SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Above Ground Storage Tank	Six 60,000-gallon	Propane	Double wall construction	-	-
Decommissioned Under Ground Storage Tank	6,000-gallon	Decommissioned. Previously Diesel	Double wall construction	Decommissioned	-
Above Ground Storage Tank	10,000-gallon	Gasoline	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	10,000-gallon	E-85	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	10,000-gallon	Biodiesel	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	10,000-gallon	Diesel	Double wall construction	Self Contained	Potomac River
Hazardous Material Storage	Aerosol Sprays to 5-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Flammable locker	Self Contained	Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Pool Transport

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage shed when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep the used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
VEHICLE/EQUIPMENT STAGING/WASHING
<ul style="list-style-type: none">• Stage vehicle/equipment only on designated and impervious surfaces• Conduct daily visual inspections of the vehicle/equipment staging area• Perform all vehicle/equipment washing in the designated wash down area

Revised May 2021

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Pool Transport	Revised May 2021
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- | | |
|---|--|
| <ul style="list-style-type: none">• Use only biodegradable detergents when washing vehicle/equipment | |
| AUDITS | |
| <ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB | |

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: **Standard Operating Procedures – G-4 – Motor Transport Maintenance** | Revised May 2021

G-4 – Motor Transport Maintenance
Building 2013

FACILITY OPERATIONS:

Motor Transport Maintenance is located on Anderson Avenue with primary responsibilities of maintaining/servicing MCB Quantico vehicles (i.e., Military Police vehicles and school buses). Industrial storm water pollutant source activities performed at Motor Transport Maintenance include:

- Hazardous Material and Hazardous Waste Storage
- Oil Water Separator
- Painting Operations
- Vehicle/Equipment Maintenance/Staging/Washing
- Loading and Unloading of Hazardous Materials

This site is a hazardous waste satellite site.

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
Eric Woznick	Equipment Repair Supervisor	703-784-2958	
Kevin Salmon	Work Leader	703-784-2958	
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: UT to Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|---------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • Shower Station with Eyewash |
| • Fire Extinguishers | • Spill kits and Emergency kits |
| • First aid kits | • Telephone Communications |

SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist

- | | |
|---|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off/ extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Transport Maintenance	Revised May 2021
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SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	None	Building Floor	OWS to Mainside STP to Potomac
Hazardous Waste Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	None	Building Floor	OWS to Mainside STP to Potomac
Above Ground Storage Tank	Two 275 gallon	Hydraulic / Lube Oil	None	Building Floor	OWS to Mainside STP to Potomac
Above Ground Storage Tank	500-gallon	Used Oil	Concrete dike within Hazardous Waste Storage Shed	Confined in Hazardous Waste Storage Shed	OWS to Mainside STP to Potomac

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Transport Maintenance | Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage shed when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• Lock HW storage shed when not in use• Keep the used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
PAINTING OPERATIONS
<ul style="list-style-type: none">• Perform all painting operations inside the paint booth
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
VEHICLE MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform all vehicle/equipment washing in the designated wash down area• Perform all equipment maintenance indoors• Use biodegradable detergents when washing vehicle/equipment• Stage of vehicles/equipment on impervious surfaces in designated workcenter areas only; use drip pans when necessary• Conduct daily visual inspections for the staging vehicles/equipment area
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Operator needs to be present throughout the duration of the unloading process

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Transport Maintenance | Revised May 2021

- Keep spill kit in the immediate area in the event of a spill
- Cover area storm sewer immediately adjacent to loading dock during HM transfer operations

AUDITS

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Transport West

Revised May 2021

**G-4 – Motor Transport West
Building 27054**

FACILITY OPERATIONS:

The Motor Transport West facility is located on Route 4 and has the responsibility of repairing large vehicles/equipment. Industrial storm water pollutant source activities performed at Motor Transport West include:

- Hazardous Material and Hazardous Waste Storage
- Oil Water Separator
- Painting Operations
- Vehicle/Equipment Maintenance/Staging/Washing
- Loading and Unloading of Hazardous Material

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
Erik Woznick	Equipment Repair Supervisor	703-784-2958	
Justin Neal	Work Leader	703-784-5271	
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: UT to Beaverdam Run/Smith Lake/Aquia Creek/Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|---------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • Shower station with eyewash |
| • Fire extinguishers | • Spill kits and emergency kits |
| • First aid kits | • Telephone communications |

SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Transport West

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol Sprays to 5-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Flammable lockers	Self Contained	Building Floor
Hazardous Material Storage	Aerosol Sprays to 5-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Secondary containment pallets in hazardous storage shed	To ground	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River
Hazardous Material Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Secondary containment pallets in hazardous waste storage shed	Confined in Hazardous Waste Storage Shed	OWS to Stafford POTW
Above Ground Storage Tank	Two 2,000-gallon	Diesel	Double wall construction	Self Contained	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River
Above Ground Storage Tank	225-gallon	Diesel	Double wall construction	Self Contained	Beaverdam Run / Smith Lake / Aquia Creek / Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Transport West

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage shed when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
OUTDOOR PAINTING OPERATIONS
<ul style="list-style-type: none">• Place drop cloths over drains in the immediate area• Place plastic tarps on the ground in the painting area• Perform all painting operations inside the paint booth
VEHICLE MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform all vehicle/equipment washing in the designated wash down area• Perform all equipment maintenance indoors• Use biodegradable detergents when washing vehicle/equipment• Stage of vehicles/equipment on impervious surfaces in designated workcenter areas only; use drip pans when necessary• Conduct daily visual inspections for the staging vehicles/equipment area

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – G-4 – Motor Transport West

Revised May 2021

LOADING AND UNLOADING OPERATIONS

- Operator needs to be present throughout the duration of the unloading process
- Keep spill kit in the immediate area in the event of a spill
- Cover area storm sewer immediately adjacent to loading dock during HM transfer operations

AUDITS

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: **Standard Operating Procedures – HMX-1 – Ground Support Equipment** | Revised May 2021

HMX-1 – Ground Support Equipment (GSE) Building 2105

FACILITY OPERATIONS:

HMX-1 is responsible for maintaining the executive helicopters in support of Presidential requests. This consists of performing day-to-day operations of the aircrafts including maintaining aircraft engines, logbooks of service/flight times, flight schedule, and inspections. HMX GSE, located in Building 2105, provides maintenance of aircraft support equipment. Industrial storm water pollutant source activities being performed at HMX-1 include:

- Hazardous Material and Hazardous Waste Storage
- Oil Water Separator
- Vehicle/Equipment Maintenance/Staging/Washing

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
GySgt. Patrick Riley	Environmental Coordinator	571-494-4708/4755	---
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: UT to Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|--|--|
| <ul style="list-style-type: none"> • Absorbent pads and speedy-dry • Emergency alarm • Fire extinguishers • First aid kits | <ul style="list-style-type: none"> • Shower station with eyewash • Spill kits and emergency kits • Telephone communications |
|--|--|

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|---|---|
| <ol style="list-style-type: none"> 1) Stop the flow 2) Shut off / extinguish ignition source 3) Contain spill 4) Dike or cover sewers | <ol style="list-style-type: none"> 5) Cleanup/recover spill 6) Arrange for proper disposal 7) Always document incident |
|---|---|

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Ground Support Equipment | Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol Sprays to 55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Flammable Locker	Self Contained	Building Floor
Above Ground Storage Tank	500-gallon	Diesel	Double wall construction	Self Contained	Storm Sewer to Chopawamsic Creek

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Ground Support Equipment | Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage shed when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage shed
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
VEHICLE/EQUIPMENT MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform vehicle/equipment maintenance indoors• Stage vehicle/equipment only on designated and impervious surfaces• Conduct daily visual inspections of the vehicle/equipment staging area• Perform all vehicle/equipment washing in the designated wash down area• Use only biodegradable detergents when washing vehicle/equipment
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Revised May 2021

**Storm Water Pollution Prevention Plan
MCB Quantico**

Subject: Standard Operating Procedures – HMX-1 – Hangars Airfield

Revised May 2021

**HMX-1 – Hangars Airfield
Buildings 2132 & 2133**

FACILITY OPERATIONS:

HMX-1 is responsible for maintaining the executive helicopters in support of Presidential requests. This consists of performing day-to-day operations of the aircrafts including maintaining aircraft engines and support equipment, logbooks of service/flight times, flight schedule, and inspections. Industrial storm water pollutant source activities being performed at HMX-1 include:

- Hazardous Material and Hazardous Waste Storage
- Hazardous Material Unloading (Hazmat Pharmacy)
- Fuel Dispensing Operations
- Oil Water Separator
- Aircraft/Equipment Maintenance/Staging/Washing

A portion of the area drains to a permitted outfall (Outfall 014).

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
GySgt. Patrick Riley	Environmental Coordinator	571-494-4708/4755	---
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: UT to Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|---------------------------------|------------------------------------|
| • Absorbent pads and speedy-dry | • Shower station with eyewash |
| • Emergency alarm | • Spill kits and emergency kits |
| • Fire extinguishers | • Storm sewer mat absorbent covers |
| • First aid kits | • Telephone communications |

SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Hangars Airfield

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol sprays and 5 to 55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Confined within flammable lockers and concrete bermed containment pad (outside)	Confined to concrete bermed containment pad (outside) and within building floor	Potomac River
Hazardous Waste Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Contained within Storage Bins/Shed	Confined within building	Potomac River
Above Ground Storage Tank	500-gallon	Used Oil	Unknown	Unknown	Potomac River
Above Ground Storage Tank	1,000-gallon	Diesel	Double wall construction	Self Contained	Potomac River
Under Ground Storage Tank	Unknown	Activated AFFF	Unknown	Unknown	Potomac River

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Hangars Airfield

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage shed when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections shall be conducted for the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• Lock HW storage shed when not in use• Keep the used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
AIRCRAFT/EQUIPMENT MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform aircraft/vehicle/equipment maintenance indoors• Stage aircraft/vehicle/equipment only on designated and impervious surfaces• Conduct daily visual inspections of the aircraft/vehicle/equipment staging area• Perform all aircraft/equipment washing in the designated wash down area• Use only biodegradable detergents when washing aircraft/equipment

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Hangars Airfield

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)

LOADING AND UNLOADING OPERATIONS

- Cover area storm sewers immediately adjacent to loading dock during HM transfer operations
- Operator needs to be present throughout the duration of the unloading process
- Keep a spill kit in the immediate area in the event of a spill

AUDITS

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Revised May 2021

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Supply Warehouse	Revised May 2021
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HMX-1 – Supply Warehouse Building 2121			
FACILITY OPERATIONS:			
<p>HMX-1 Supply Warehouse is responsible for maintaining the executive helicopters in support of Presidential requests performing all aspects of the day-to-day operations of the aircrafts including maintaining aircraft engines and support equipment, logbooks of service/flight times, flight schedule, and inspections. The primary HM receiving area for HMX is located at Building 2121. Materials received at Building 2121 are distributed to the Hazmat Pharmacy at the HMX Hangars. Industrial storm water pollutant source activities being performed at HMX-1 include:</p> <ul style="list-style-type: none"> • Hazardous Material and Hazardous Waste Storage • Hazardous Material Unloading <p>The building floor drains discharge to a permitted outfall (Outfall 018).</p>			
EMERGENCY INCIDENT NOTIFICATIONS:		<ul style="list-style-type: none"> • MCB Quantico Fire Department: 911 • Immediate Supervisor 	
FACILITY CONTACT(S):			
Facility Emergency Coordinator	Title	Phone	Fax
GySgt. Patrick Riley	Environmental Coordinator	571-494-4708/4755	---
NREAB		703-784-4030	703-784-4953
SPILL PATHWAY:			
Potential Water Body:		UT to Potomac River	
SPILL RESPONSE EQUIPMENT MATERIALS:			
<ul style="list-style-type: none"> • Absorbent pads and speedy-dry • Emergency alarm • Fire extinguishers • First aid kits 		<ul style="list-style-type: none"> • Shower station with eyewash • Spill kits and emergency kits • Telephone communications 	
SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist			
1) Stop the flow		5) Cleanup/recover spill	
2) Shut off / extinguish ignition source		6) Arrange for proper disposal	
3) Contain spill		7) Always document incident	
4) Dike or cover sewers			

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Supply Warehouse	Revised May 2021
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SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol Sprays to 55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Hazmat Storage Room	Contained within building	Building Floor
Hazardous Material Loading Dock	Aerosol Sprays to 55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Hydraulic lift on dock equipped with perimeter lip and sump pump	Down gradient from loading dock ramp to storm sewer	Potomac River
Above Ground Storage Tank	262-gallon	Diesel	Double wall construction	Self Contained	Potomac River

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: **Standard Operating Procedures – HMX-1 – Supply Warehouse**

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• HM storage room must remain locked when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label containers• Conduct daily visual inspections of the HM room
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep drainage valves in the closed position at all times except when discharging• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Cover area storm sewers immediately adjacent to loading dock during HM transfer operations• Operator needs to be present throughout the duration of the unloading process• Spill kit needs to be in the immediate area in the event of a spill
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: **Standard Operating Procedures – HMX-1 – Test Cell**

Revised May 2021

HMX-1 – Test Cell

FACILITY OPERATIONS:

HMX-1 is responsible for maintaining the executive helicopters in support of Presidential requests. This consists of performing all aspects of the day-to-day operations of the aircrafts including maintaining aircraft engines, logbooks of service/flight times, flight schedule, and inspections. The HMX-1 – Test Cell, located just east of the airfield and adjacent to the Potomac River, functions as the test center for HMX aircraft engines. Industrial storm water pollutant source activities being performed at HMX-1 – Test Cell include:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Oil Water Separator
- Aircraft/Equipment Maintenance/Staging/Washing

A permitted storm water outfall (Outfall 091) is associated with the drainage from this area.

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Emergency Coordinator	Title	Phone	Fax
GySgt. Patrick Riley	Environmental Coordinator	571-494-4708/4755	---
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: Potomac River Bight, Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|--|--|
| <ul style="list-style-type: none"> • Absorbent pads and speedy-dry • Emergency alarm • Fire extinguishers • First aid kits | <ul style="list-style-type: none"> • Shower station with eyewash • Spill kits and emergency kits • Telephone communications |
|--|--|

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|---|---|
| <ol style="list-style-type: none"> 1) Stop the flow 2) Shut off / extinguish ignition source 3) Contain spill 4) Dike or cover sewers | <ol style="list-style-type: none"> 5) Cleanup/recover spill 6) Arrange for proper disposal 7) Always document incident |
|---|---|

Revised May 2021

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Test Cell

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	500	JP-8	Concrete Dike	Confined in Concrete Dike	Storm Sewer to Potomac River
Hazardous Material Storage	500	JP-8	Concrete Dike	Confined in Concrete Dike	Storm Sewer to Potomac River
Hazardous Material Storage	500	JP-8	Concrete Dike	Confined in Concrete Dike	Storm Sewer to Potomac River
Hazardous Material Storage	Quarts to 5-gallons	Gasoline, Oil	Flammable Storage Locker	Self Contained	Storm Sewer to Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Test Cell

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)

GENERAL OUTSIDE AREA

- Good Housekeeping Practices – keep area free of trash and debris
- Keep spill kits and emergency kits in accessible areas
- Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only
- Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted

HAZARDOUS MATERIAL STORAGE

- Keep HM storage lockers locked when not in use
- Keep drainage valves in the closed position at all times except when discharging
- Document and visually inspect discharge collection water prior to release
- Store HM containers on impervious surfaces with containment and cover
- Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums
- Properly label all containers

HAZARDOUS WASTE STORAGE

- HW storage shed must remain locked when not in use
- Keep drainage valves in the closed position at all times except when discharging
- Document and visually inspect discharge collection water prior to release
- Store HW containers on impervious surfaces with containment and cover
- Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums
- Properly label all containers with waste material and date
- Conduct daily visual inspections of the HW storage shed

FUEL DISPENSING OPERATIONS

- Do not “top off” vehicles/equipment (i.e., overfilled)
- Conduct daily visual inspections of the fuel dispensing operations
- Keep a spill kit in the immediate area in the event of a spill
- Fuel Operator must be present throughout the duration of the unloading process

OIL WATER SEPARATOR

- Inspect oil/water separator quarterly and document
- Clean oil/water separator annually or as needed

AIRCRAFT/EQUIPMENT MAINTENANCE/STAGING/WASHING

- Perform aircraft/vehicle/equipment maintenance indoors
- Stage aircraft/vehicle/equipment only on designated and impervious surfaces
- Conduct daily visual inspections of the aircraft/vehicle/equipment staging area
- Perform all aircraft/equipment washing in the designated wash down area
- Use only biodegradable detergents when washing aircraft/equipment

Revised May 2021

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – HMX-1 – Test Cell

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)

AUDITS

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – LAR Motor Pool

Revised May 2021

**4th Light Armored Reconnaissance (LAR)
Building 26100**

FACILITY OPERATIONS:

The 4th LAR is located at Camp Upshur on the northwest portion of the Base. Industrial storm water pollutant source activities performed at the 4th LAR include:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Oil Water Separator
- Vehicle/Equipment Maintenance/Staging/Washing
- Loading and Unloading of Hazardous Material
- Weapons Cleaning

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
Sgt. Scruders	Environmental Compliance Officer	703-784-2853	703-784-3390
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: UT to Cedar Run/ Occoquan River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|---------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • Shower Station with Eyewash |
| • Fire Extinguishers | • Spill kits and Emergency kits |
| • First aid kits | • Telephone Communications |

SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – LAR Motor Pool

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	5- gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Locked conex box with integral secondary containment	Self Contained	OWS to Camp Upshur STP
Hazardous Material Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Maintenance Bay, Building 26100	Self Contained	OWS to Camp Upshur STP
Above Ground Storage Tank	370-gallon	Diesel	Double wall construction	Self Contained	OWS to Camp Upshur STP

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – LAR Motor Pool

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Conduct daily visual inspections of the vehicle/equipment storage area• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage conex when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections for the HM storage conex
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
STORM WATER MANAGEMENT BASIN
<ul style="list-style-type: none">• Inspect the dry pond located behind the building quarterly to ensure that it is functioning properly
VEHICLE/EQUIPMENT MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform all vehicle/equipment maintenance indoors• Stage vehicle/equipment only on designated and impervious surfaces

Revised May 2021

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – LAR Motor Pool

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)

- Conduct daily visual inspections of the vehicle/equipment staging area
- Perform all vehicle/equipment washing in the designated wash down area on the Tracked Vehicle Maintenance side of the complex
- Use only biodegradable detergents when washing vehicle/equipment

LOADING AND UNLOADING OPERATIONS

- Operator needs to be present throughout the duration of the unloading process
- Keep spill kit in the immediate area in the event of a spill
- Cover area storm sewer immediately adjacent to loading dock during HM transfer operations

AUDITS

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCAF Fuels

Revised May 2021

MCAF Fuels Building 5170

FACILITY OPERATIONS:

The Marine Corps Air Facility provides fuel in support of HMX-1 executive helicopters and Presidential support requests. Industrial storm water pollutant source activities performed at MCAF Fuels operations include:

- Hazardous Material and Hazardous Waste Storage
- Loading and Unloading of Hazardous Materials
- Fuel Dispensing Operations
- Vehicle/Equipment Maintenance/Staging/Washing

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Emergency Coordinator	Title	Phone	Fax
Paul Dodd / GySgt. Adam Naylor	Environmental Coordinator	703-432-1689 703-784-4233	---
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- Fire extinguishers on each truck
- Portable halon caddys
- Spill kits at each truck

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|---|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off/ extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCAF Fuels

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	(8)- 5,000 Tank Trucks	JP-8	Asphalt bermed containment pad	Confined in bermed containment pad	Potomac River
Hazardous Materials Storage	Unknown	Fuel	Flammable Locker	Confined to building	Potomac River

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCAF Fuels

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)

GENERAL OUTSIDE AREA

- Good Housekeeping Practices – keep area free of trash and debris
- Keep spill kits and emergency kits in accessible areas
- Keep all lids on dumpsters closed when not being filled or emptied
- Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only
- Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted

TANKER STAGING

- Keep the secondary containment drainage valves in the closed position at all times except when discharging
- Document and visually inspect discharge collection water prior to release
- Keep tankers grounded and parked fully within secondary containment when not in use
- Maintain neat and orderly storage of tankers with proper spacing for pathways and walkways between each truck
- Properly label all tankers
- Conduct daily visual inspections of the tanker secondary containment pad

HAZARDOUS WASTE STORAGE

- HW storage shed must remain locked when not in use
- Keep drainage valves in the closed position at all times except when discharging
- Document and visually inspect discharge collection water prior to release
- Store HW containers on impervious surfaces with containment and cover
- Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums
- Properly label all containers with waste material and date
- Conduct daily visual inspections of the HW storage shed

LOADING AND UNLOADING OPERATIONS

- Operator needs to be present throughout the duration of the unloading process
- Keep spill kit in the immediate area in the event of a spill
- Cover area storm sewer immediately adjacent to loading dock during HM transfer operations

FUEL DISPENSING OPERATIONS

- Do not “top off” vehicles/equipment (i.e., overfilled)
- Conduct daily visual inspections of the fuel dispensing operations
- Keep a spill kit in the immediate area in the event of a spill
- Fuel Operator must be present throughout the duration of the unloading process

VEHICLE MAINTENANCE/STAGING/WASHING

- Perform all vehicle/equipment washing in the designated wash down area
- Perform all equipment maintenance indoors

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCAF Fuels

Revised May 2021

- Use biodegradable detergents when washing vehicle/equipment
- Stage of vehicles/equipment on impervious surfaces in designated workcenter areas only; use drip pans when necessary
- Conduct daily visual inspections for the staging vehicles/equipment area

AUDITS

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

Revised May 2021

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – MCCA – Golf Maintenance	Revised May 2021
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MCCA – Golf Maintenance Building 3063, 3303, 3306			
FACILITY OPERATIONS:			
<p>The Golf Course is an 18-hole course complete with Clubhouse and Pro Shop on Fuller Road. Industrial storm water pollutant source activities performed at Golf Maintenance include:</p> <ul style="list-style-type: none"> • Hazardous Material and Hazardous Waste Storage • Fuel Dispensing Operations • Pesticide/Herbicide Applications • Vehicle/Equipment Maintenance/Staging/Washing <p>This site is a hazardous waste satellite site.</p>			
EMERGENCY INCIDENT NOTIFICATIONS:		<ul style="list-style-type: none"> • MCB Quantico Fire Department: 911 • Immediate Supervisor 	
FACILITY CONTACT(S):			
Facility Emergency Coordinator	Title	Phone	Fax
Kevin Karkiewicz	Golf Superintendent	703-784-2424	703-784-6732
NREAB		703-784-4030	703-784-4953
SPILL PATHWAY:			
Potential Water Body:		UT to Little Creek, Potomac River	
SPILL RESPONSE EQUIPMENT MATERIALS:			
<ul style="list-style-type: none"> • Absorbent pads and speedy-dry • Automatic leak detection system • Emergency alarm • Fire Extinguishers 		<ul style="list-style-type: none"> • First aid kits • Shower Station with Eyewash • Spill kits and Emergency kits • Telephone Communications 	
SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist			
1) Stop the flow	2) Shut off / extinguish ignition source	3) Contain spill	4) Dike or cover sewers
5) Cleanup/recover spill	6) Arrange for proper disposal	7) Always document incident	

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCCS – Golf Maintenance

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol Sprays to 55-gallon drums	Antifreeze, Degreasers, Greases, Oils	Flammable lockers and secondary containment pallets in storage buildings	Self Contained	Potomac River
Hazardous Material Storage	55-lb bags	Pesticides / Herbicides	Locked conex box with integral secondary containment	Self Contained	Potomac River
Hazardous Waste Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Secondary containment pallets in storage buildings	Confined in Storage Garage	Potomac River
Above Ground Storage Tank	500-gallon	Diesel	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	550-gallon	Gasoline	Double wall construction	Self Contained	Potomac River

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCCA – Golf Maintenance

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Keep HM storage shed locked when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• Keep HW storage shed locked when not in use• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections for the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Vehicles/equipment are not to be “topped off” (i.e., overfilled)• Daily inspections shall be conducted of the fuel dispensing operations• Spill kit needs to be in the immediate area in the event of a spill
PESTICIDE/HERBICIDE APPLICATION
<ul style="list-style-type: none">• Implement the Base Pesticide Management Plan and Base Nutrient Management Plan• Follow EPA label recommendations• Only apply during dry weather conditions
VEHICLE/EQUIPMENT MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform all vehicle/equipment maintenance indoors• Stage vehicle/equipment only on designated and impervious surfaces• Conduct daily visual inspections of the vehicle/equipment staging area• Perform all equipment rinsing in area grassy/graveled area that is sloped away from storm drains• Use only rinse water while rinsing equipment (no detergents allowed!)
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCCA – Marina

Revised May 2021

MCCA – Marina Building 25, 26, 3215

FACILITY OPERATIONS:

The Marina, for service members privately owned watercrafts, is northeast of Quantico Town located on Potomac Avenue. The Marina consists of three building structures: the Marina Office (Building 25), a bathhouse (Building 26), and a building used for training, storage, and watercraft maintenance (Building 3215). Industrial storm water pollutant source activities performed at the Marina include:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Painting Operations
- Loading and Unloading of Hazardous Material
- Watercraft Maintenance/Staging/Washing

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Emergency Coordinator	Title	Phone	Fax
Kate Cutshall	Harbor Master	703-784-2359	
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|----------------------------------|---------------------------------|
| • Absorbent pads and speedy dry | • First aid kits |
| • Leak detection system (Visual) | • Eyewash Station |
| • Telephone Communications | • Spill kits and Emergency kits |
| • Fire Extinguishers | |

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – M CCS – Marina

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	5 to 55-gallon drums	Gasoline, Greases, Oils, Paint, Solvents	Flammable lockers and secondary containment pallets within hazardous storage shed	To ground	Potomac River
Above Ground Storage Tank	3,000-gallon	Gasoline	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	1,000-gallon	Watercraft septic waste	None	To ground	Potomac River

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCCA – Marina

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• HM storage shed must remain locked when not in use• HM containers should be stored on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label containers• Conduct daily visual inspections of the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep the used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Fuel dispensing must be a controlled operation between Marina personnel and the watercraft patron owner• Watercrafts are not to be “topped off” (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep spill kit in the immediate area in the event of a spill
PAINTING OPERATIONS
<ul style="list-style-type: none">• Conduct all painting operations inside
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Operator needs to be present throughout the duration of the unloading process• Keep spill kit in the immediate area in the event of a spill• Cover area storm sewer immediately adjacent to loading dock during HM transfer operations

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCCA – Marina

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs) (continued)

WATERCRAFT MAINTENANCE/STAGING/WASHING

- Perform all watercraft maintenance indoors
- Conduct daily visual inspections of the watercraft slips and staging area
- Wash all watercraft in the designated wash down area
- Use biodegradable detergents when washing watercraft

AUDITS

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCSC – Amphibious Raids and Recon	Revised May 2021
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MCSC – Amphibious Raids and Recon Building 3230

FACILITY OPERATIONS:

The Amphibious Raids and Recon facility tests marine watercraft for all military aspects of warfare and is located on Hanson Avenue in a low lying flood zone with area drainage direct to the Potomac River. Industrial storm water pollutant source activities performed at Amphibious Raids and Recon include:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Oil Water Separator
- Loading and Unloading of Hazardous Material
- Watercraft/Equipment Maintenance/Staging/Washing

This site is a Hazardous Waste satellite site.

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
Kevin O'Brien		703-432-6018	703-784-6086
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body:	UT to Potomac River
-----------------------	---------------------

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|--|--|
| <ul style="list-style-type: none"> • Absorbent pads and speedy-dry • Leak detection system (Visual) • Emergency alarm • Fire Extinguishers | <ul style="list-style-type: none"> • First aid kits • Shower Station with Eyewash • Spill kits and Emergency kits • Telephone Communications |
|--|--|

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|---|---|
| <ol style="list-style-type: none"> 1) Stop the flow 2) Shut off / extinguish ignition source 3) Contain spill 4) Dike or cover sewers | <ol style="list-style-type: none"> 5) Cleanup/recover spill 6) Arrange for proper disposal 7) Always document incident |
|---|---|

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – MCSC – Amphibious Raids and Recon | Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol cans to 55-gallon drums	Antifreeze, Degreasers, Gasoline Bladders, Greases, Oils, Paint, Solvents	Flammable lockers and secondary containment pallets	Self Contained	Potomac River
Hazardous Waste Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Secondary containment pallets	Confined in Hazardous Waste Storage Shed	Potomac River
Above Ground Storage Tank	250-gallon	Gasoline	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	1,000-gallon	Diesel	Double wall construction with concrete dike	Confined within concrete dike	Potomac River
Above Ground Storage Tank	125-gallon	Used Oil	Double wall construction with concrete dike	Confined within concrete dike	Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCSC – Amphibious Raids and Recon

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL/WASTE STORAGE
<ul style="list-style-type: none">• Lock HM storage shed when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Operator needs to be present throughout the duration of the unloading process• Keep spill kit in the immediate area in the event of a spill• Cover area storm sewer immediately adjacent to loading dock during HM transfer operations
WATERCRAFT/EQUIPMENT MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform water craft/equipment maintenance indoors• Conduct daily visual inspections of the water craft/equipment staging areas• Perform all water craft/equipment washing in the designated wash down area• Use only biodegradable detergents when washing vehicle/equipment
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCSC – TDSA

Revised May 2021

**MCSC – Transportation Demonstration Support Area (TDSA) –
Buffalo Area
Building 28000, 28003, 28004, 28005, 28009**

FACILITY OPERATIONS:

TDSA (Buffalo Area), located off of U.S.1 on Old Route 1, previews and tests military vehicles for warfare using an all-terrain course. Industrial storm water pollutant source activities performed at TDSA include:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Oil Water Separator
- Vehicle/Equipment Maintenance/Staging/Washing

The wash down operations were out of service during the time of this Revision to the SWPPP; however, the wash rack was expected to be operational within a year.

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
Mike Anderson	Operations Manager	703-898-9528	703-784-0330
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: UT to Chopawamsic Creek/Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|-----------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • First aid kits |
| • Automatic leak detection system | • Shower Station with Eyewash |
| • Emergency alarm | • Spill kits and Emergency kits |
| • Fire Extinguishers | • Telephone Communications |

SOURCE CONTROL PROCEDURES:

Proceed only if properly trained and safe conditions exist

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCSC – TDSA

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	Aerosol cans to 5-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Contained in flammable lockers inside storage building	Self Contained	Building Floor
Non-Hazardous Material Storage	5 to 55-gallon drums	Used Antifreeze, Used Oil	Contained in Hazardous Waste Storage Shed	Confined within Hazardous Waste Storage Shed	Chopawamsic Creek to Potomac River
Above Ground Storage Tank	Four 1,000 gallon	Diesel	Double wall construction	Self Contained	Chopawamsic Creek to Potomac River
Above Ground Storage Tank	1,000-gallon	Gasoline	Double wall construction	Self Contained	Chopawamsic Creek to Potomac River
Above Ground Storage Tank	1,500-gallon	Diesel	Double wall construction	Self Contained	Chopawamsic Creek to Potomac River
Above Ground Storage Tank	500-gallon	Used Oil	Concrete dike within Hazardous Waste Storage Shed	Confined within Hazardous Waste Storage Shed	Chopawamsic Creek to Potomac River

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – MCSC – TDSA

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage locker when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage locker
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator quarterly and document• Clean oil/water separator annually or as needed
VEHICLE/EQUIPMENT MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform vehicles/equipment maintenance indoors• Conduct daily visual inspections of the vehicle/equipment staging areas• Perform all vehicle/equipment washing in the designated wash down area• Use only biodegradable detergents when washing vehicle/equipment
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – NREA – HWSF

Revised May 2021

**NREA – Hazardous Waste Storage Facility (HWSF)
Building 27401, 27401A**

FACILITY OPERATIONS:

The Hazardous Waste Storage Facility is located on MCB-1. The facility is a secure building enclosed by an eight-foot high chain-link fence. Seven bays are separated by masonry block walls inside the building. Waste materials are segregated, maintained in boxes, cans and drums, all of which is stored within secondary containment prior to off-site disposal by an outside contractor. Discharges from any of the containers in the hazardous waste storage facility are contained by berms, floor trench drains, and walls. This is a < 90 day site.

The quantity of material stored varies with the operational requirements of the activities conducted on Base. Industrial storm water pollutant source activities performed at the HWSF include:

- Hazardous Material and Hazardous Waste Storage
- Outdoor Painting Operations
- Loading and Unloading of Hazardous Material
- Pesticide/Herbicide Applications

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Emergency Coordinator	Title	Phone	Fax
David Norris	Haz. Waste Program Manager	703-432-0530	703-784-4953
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: Beaverdam Run/Smith Lake/Aquia Creek/Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|---------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • First aid kits |
| • Telephone Communications | • Shower Station with Eyewash |
| • Emergency alarm | • Spill kits and Emergency kits |
| • Fire Extinguishers | |

SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist

- | | |
|---|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off/ extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – NREA – HWSF

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Waste Storage	Varies based on operational activities on Base	Varies based on operational activities on Base	Enclosed within secured facility	Confined in compound area	Only if spilled outside - Beaverdam Run / Smith Lake / Aquia Creek / Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – NREA – HWSF

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• Lock HM storage shed when not in use• Keep any used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections of the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage facility and shed must remain locked when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
OUTDOOR PAINTING OPERATIONS
<ul style="list-style-type: none">• Place drop cloths over drains in the immediate area• Place plastic tarps on the ground in the painting area• Perform all painting operations inside the paint booth
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Operator needs to be present throughout the duration of the unloading process• Keep spill kit in the immediate area in the event of a spill• Cover area storm sewer immediately adjacent to loading dock during HM transfer operations
PESTICIDE/HERBICIDE APPLICATION
<ul style="list-style-type: none">• Implement the Base Pesticide Management Plan and Base Nutrient Management Plan• Follow EPA label recommendations• Only apply during dry weather conditions

Revised May 2021

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: **Standard Operating Procedures – TBS – Armory**

Revised May 2021

TBS – Armory
Building 24018

FACILITY OPERATIONS:

The TBS Armory, located on Belleau Avenue at Camp Barrett, is one of the largest armories in the Marine Corps and is responsible for the care of weaponry and optics at MCB Quantico. This consists of performing monthly inventories, cleaning, repair, and storage of weapons. Industrial storm water pollutant source activities performed at the TBS Armory include:

- Hazardous Material and Hazardous Waste Storage
- Oil Water Separator
- Weapons Cleaning

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S): Armory Phone: 784-5426

Facility Emergency Coordinator	Title	Phone	Fax
Scott Davis	Safety Manager	703-784-5231	703-784-6652
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: Long Branch/Aquia Creek/Smith Lake/Aquia Creek/Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|---------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • First aid kits |
| • Telephone Communications | • Eyewash Station |
| • Emergency alarm | • Spill kits and Emergency kits |
| • Fire Extinguishers | |

SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist

- | | |
|---|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off/ extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – TBS – Armory

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Paint Locker	-	Paint, stripping paint	None	Will drain to OWS and sanitary sewer	UT to Aquia Creek and Potomac River
Safety Kleen Container	Sixteen 30-gallon	Petroleum Distillate Gold Solvent	Self Contained	Will drain to OWS and sanitary sewer	UT to Aquia Creek and Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – TBS – Armory

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• HM storage shed must remain locked when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections for the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
OIL WATER SEPARATOR
<ul style="list-style-type: none">• Inspect oil/water separator monthly and document• Clean oil/water separator annually or as needed
STORM WATER MANAGEMENT BASIN
<ul style="list-style-type: none">• Inspect the dry pond located adjacent to the AHS quarterly to ensure that it is functioning properly
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

Revised May 2021

**Storm Water Pollution Prevention Plan
MCB Quantico**

Subject: Standard Operating Procedures – TBS – Motor Transport Maintenance | Revised May 2021

**TBS – Motor Transport Maintenance
Building 24009**

FACILITY OPERATIONS:

Motor Transport Maintenance, located on Route 3 at Camp Barrett, is responsible for maintaining all-terrain military vehicles. This consists of performing all aspects of maintenance on tracked and non-tracked vehicles. Industrial storm water pollutant source activities performed at Motor Transport Maintenance include:

- Hazardous Material and Hazardous Waste Storage
- Oil Water Separator
- Loading and Unloading of Hazardous Material
- Vehicle/Equipment Maintenance/Staging/Washing

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Environmental Contact	Title	Phone	Fax
Scott Davis	Safety Manager	703-784-5231	703-784-6652
NREAB		703-784-4030	703-784-4953

SPILL PATHWAY:

Potential Water Body: UT to Long Branch/Aquia Creek/Smith Lake/Aquia Creek/Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|----------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • First aid kits |
| • Leak detection system (Visual) | • Shower Station with Eyewash |
| • Emergency alarm | • Spill kits and Emergency kits |
| • Fire Extinguishers | • Telephone Communications |

SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist

- | | |
|--|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off / extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – TBS – Motor Transport Maintenance	Revised May 2021
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SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Contained in flammable lockers	Self Contained	OWS to Stafford POTW
Hazardous Waste Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Contained in Hazardous Waste Storage Shed	Confined in Hazardous Waste Storage Shed	OWS to Stafford POTW
Above Ground Storage Tank	500-gallon	Used Oil	Concrete dike	Confined in Hazardous Waste Storage Shed	OWS to Stafford POTW

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – TBS – Motor Transport Maintenance | Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)

GENERAL OUTSIDE AREA

- Good Housekeeping Practices – keep area free of trash and debris
- Keep spill kits and emergency kits in accessible areas
- Keep all lids on dumpsters closed when not being filled or emptied
- Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only
- Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted

HAZARDOUS MATERIAL STORAGE

- Lock HM storage shed when not in use
- Keep drainage valves in the closed position at all times except when discharging
- Document and visually inspect discharge collection water prior to release
- Store HM containers on impervious surfaces with containment and cover
- Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums
- Properly label all containers
- Conduct daily visual inspections of the HM storage shed

HAZARDOUS WASTE STORAGE

- Lock HW storage shed when not in use
- Keep the used oil tank secondary containment free of debris
- Keep drainage valves in the closed position at all times except when discharging
- Document and visually inspect discharge collection water prior to release
- Store HW containers on impervious surfaces with containment and cover
- Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums
- Properly label all containers with waste material and date
- Conduct daily visual inspections of the HW storage shed

OIL WATER SEPARATOR

- Inspect oil/water separator quarterly and document
- Clean oil/water separator annually or as needed

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Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – TBS – Motor Transport Maintenance | Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)

LOADING AND UNLOADING OPERATIONS

- Operator needs to be present throughout the duration of the unloading process
- Keep spill kit in the immediate area in the event of a spill
- Cover area storm sewer immediately adjacent to loading dock during HM transfer operations

VEHICLE/EQUIPMENT MAINTENANCE/STAGING/WASHING

- Perform vehicle/equipment maintenance indoors
- Stage vehicle/equipment only on designated and impervious surfaces
- Conduct daily visual inspections of the vehicle/equipment staging area
- Perform all vehicle/equipment washing in the designated wash down area on the Tracked Vehicle Maintenance side of the complex
- Use only biodegradable detergents when washing vehicle/equipment

AUDITS

- Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB

Revised May 2021

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – TBS – PM Shop	Revised May 2021
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TBS – PM Shop Building 24101			
FACILITY OPERATIONS:			
<p>TBS PM Shop is located in Building 24101. The industrial storm water pollutant source activity performed in this area includes:</p> <ul style="list-style-type: none"> • Hazardous Material and Hazardous Waste Storage • Fuel Dispensing Operations • Vehicle/Equipment Maintenance/Staging/Washing 			
EMERGENCY INCIDENT NOTIFICATIONS:		<ul style="list-style-type: none"> • MCB Quantico Fire Department: 911 • Immediate Supervisor 	
FACILITY CONTACT(S):			
Facility Emergency Coordinator	Title	Phone	Fax
Scott Davis	Safety Manager	703-784-5231	703-784-6652
NREAB		703-784-0525	703-784-4953
SPILL PATHWAY:			
Potential Water Body:		Long Branch/Aquia Creek/Smith Lake/Aquia Creek/Potomac River	
SPILL RESPONSE EQUIPMENT MATERIALS:			
<ul style="list-style-type: none"> • Absorbent pads and speedy-dry • Fire Extinguishers • First aid kits 		<ul style="list-style-type: none"> • Telephone Communications • Spill kits and Emergency kits 	
SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist			
1) Stop the flow		5) Cleanup/recover spill	
2) Shut off/ extinguish ignition source		6) Arrange for proper disposal	
3) Contain spill		7) Always document incident	
4) Dike or cover sewers			

Storm Water Pollution Prevention Plan
MCB Quantico

Subject: Standard Operating Procedures – TBS – PM Shop	Revised May 2021
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SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage - Inside	Aerosol cans and 1-gallon cans	Carpentry Adhesives, Paint, Solvents	Flammable Lockers	Self Contained	To Building Floor
Hazardous Material Storage - Outside	5- gallon plastic/metal cans	Fuels: Diesel, Gasoline, Mixed Gas	Flammable Lockers	Self Contained	Potomac River

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – TBS – PM Shop

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• HM storage shed must remain locked when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections for the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Properly label all containers with waste material and date• Conduct daily visual inspections of the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill• Fuel Operator must be present throughout the duration of the unloading process
VEHICLE MAINTENANCE/STAGING/WASHING
<ul style="list-style-type: none">• Perform all vehicle/equipment washing in the designated wash down area• Perform all equipment maintenance indoors• Use biodegradable detergents when washing vehicle/equipment• Stage of vehicles/equipment on impervious surfaces in designated workcenter areas only; use drip pans when necessary• Conduct daily visual inspections for the staging vehicles/equipment area
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

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Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – TBS – Power Plant

Revised May 2021

TBS – Power Plant Building 24162

FACILITY OPERATIONS:

The Power Plant, also referred to as the Heat Plant, supplies heat to TBS buildings. Industrial storm water pollutant source activities performed at the Power Plant include:

- Hazardous Material Storage
- Loading/Unloading of Boiler Underground Fuel Tanks

EMERGENCY INCIDENT NOTIFICATIONS:

- MCB Quantico Fire Department: **911**
- Immediate Supervisor

FACILITY CONTACT(S):

Facility Emergency Coordinator	Title	Phone	Fax
L.P. Weedon	Supervisor	703-784-5384	703-784-5229
NREAB		703-784-0525	703-784-4953

SPILL PATHWAY:

Potential Water Body:

UT to Long Branch/Aquia Creek/Smith Lake/Aquia Creek/Potomac River

SPILL RESPONSE EQUIPMENT MATERIALS:

- | | |
|-----------------------------------|---------------------------------|
| • Absorbent pads and speedy-dry | • First aid kits |
| • Automatic leak detection system | • Shower Station with Eyewash |
| • Emergency alarm | • Spill kits and Emergency kits |
| • Fire Extinguishers | • Telephone Communications |

SOURCE CONTROL PROCEDURES: **Proceed only if properly trained and safe conditions exist**

- | | |
|---|--------------------------------|
| 1) Stop the flow | 5) Cleanup/recover spill |
| 2) Shut off/ extinguish ignition source | 6) Arrange for proper disposal |
| 3) Contain spill | 7) Always document incident |
| 4) Dike or cover sewers | |

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – TBS – Power Plant

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	5-gallon drums	Boiler and Water Treatment Chemicals	Floor drains conveyed to basement sump pump	Sump pump drains out the east side of the building	Potomac River
Above Ground Storage Tank	1,000-gallon	Diesel	Double wall construction	Self Contained	Potomac River
Under Ground Storage Tank	20,000-gallon	No. 6 Fuel Oil	Double wall construction	Self Contained	Potomac River
Under Ground Storage Tank	20,000-gallon	No. 6 Fuel Oil	Double wall construction	Self Contained	Potomac River

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Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – TBS – Power Plant

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• HM storage shed must remain locked when not in use• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections for the HM storage shed• Conduct daily visual inspections for the basement sump pump and document
LOADING/UNLOADING OF BOILER UNDERGROUND FUEL TANKS
<ul style="list-style-type: none">• Fuel Operator must be present throughout the duration of the unloading process• Spill kit needs to be in the immediate area in the event of a spill
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit of the entire facility using the following checklist, and provide the results to NREAB.

Revised May 2021

**Storm Water Pollution Prevention Plan
MCB Quantico**

Subject: Standard Operating Procedures – WTBN

Revised May 2021

Weapon Training Battalion (WTBN) Building 27211, 27212, and Weapon Precision Lab (27250)			
FACILITY OPERATIONS:			
Industrial storm water pollutant source activities being performed at Weapon Training Battalion (WTBN) include:			
<ul style="list-style-type: none"> • Hazardous Material and Hazardous Waste Storage • Fuel Dispensing Operations • Ground Maintenance Vehicle/Equipment Staging • Outdoor Weapon Cleaning • Loading and Unloading of Hazardous Material 			
All activities at the precision weapon lab (Building 27250) are performed indoors under a high security military squadron.			
EMERGENCY INCIDENT NOTIFICATIONS:		<ul style="list-style-type: none"> • MCB Quantico Fire Department: 911 • Immediate Supervisor 	
FACILITY CONTACT(S):			
Facility Emergency Coordinator	Title	Phone	Fax
Capitan McDannel	S-4 Officer	703-432-2699	703-784-5216
NREAB		703-784-4030	703-784-4953
SPILL PATHWAY:			
Potential Water Body:		Potomac River	
SPILL RESPONSE EQUIPMENT MATERIALS:			
<ul style="list-style-type: none"> • Absorbent pads and speedy-dry • Automatic leak detection system • Emergency alarm • Fire extinguishers 		<ul style="list-style-type: none"> • First aid kits • Shower station with eyewash • Spill kits and emergency kits • Telephone communications 	
SOURCE CONTROL PROCEDURES: Proceed only if properly trained and safe conditions exist			
1) Stop the flow		5) Cleanup/recover spill	
2) Shut off / extinguish ignition source		6) Arrange for proper disposal	
3) Contain spill		7) Always document incident	
4) Dike or cover sewers			

Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – WTBN

Revised May 2021

SIGNIFICANT MATERIAL INVENTORY AND RESPONSE STRATEGIES					
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Direction of Flow & Initial Receptor	Ultimate Receptor
Hazardous Material Storage	55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Conex and flammable lockers	Self Contained	Potomac River
Hazardous Waste Storage	55-gallon drums	Used Antifreeze, Used Batteries, Used Oil	Contained in Hazardous Waste Storage Shed	Confined in Hazardous Waste Storage Shed	Potomac River
Above Ground Storage Tank	6,000-gallon	Diesel	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	250-gallon	Diesel	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	250-gallon	Gasoline	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	1,000-gallon	Diesel	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank	100-gallon	Diesel	Double wall construction	Self Contained	Potomac River

Revised May 2021

Storm Water Pollution Prevention Plan


MCB Quantico

Subject: Standard Operating Procedures – WTBN

Revised May 2021

BEST MANAGEMENT PRACTICES (BMPs)
GENERAL OUTSIDE AREA
<ul style="list-style-type: none">• Good Housekeeping Practices – keep area free of trash and debris• Keep spill kits and emergency kits in accessible areas• Keep all lids on dumpsters closed when not being filled or emptied• Conduct maintenance of government vehicles and equipment indoors to the extent practicable; outdoor maintenance is to be performed on impervious surfaces in designated workcenter areas only• Keep a list of names and telephone numbers of appropriate personnel and procedures for notifying personnel in case of a leak or spill must be posted
HAZARDOUS MATERIAL STORAGE
<ul style="list-style-type: none">• HM storage shed must remain locked when not in use• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HM containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HM with proper spacing for pathways and walkways between containers and drums• Properly label all containers• Conduct daily visual inspections for the HM storage shed
HAZARDOUS WASTE STORAGE
<ul style="list-style-type: none">• HW storage shed must remain locked when not in use• Keep the used oil tank secondary containment free of debris• Keep drainage valves in the closed position at all times except when discharging• Document and visually inspect discharge collection water prior to release• Store HW containers on impervious surfaces with containment and cover• Maintain neat and orderly storage of HW with proper spacing for pathways and walkways between containers and drums• Conduct daily visual inspections of the HW storage shed
FUEL DISPENSING OPERATIONS
<ul style="list-style-type: none">• Do not “top off” vehicles/equipment (i.e., overfilled)• Conduct daily visual inspections of the fuel dispensing operations• Keep a spill kit in the immediate area in the event of a spill
LOADING AND UNLOADING OPERATIONS
<ul style="list-style-type: none">• Operator needs to be present throughout the duration of the unloading process• Keep spill kit in the immediate area in the event of a spill• Cover area storm sewer immediately adjacent to loading dock during HM transfer operations
VEHICLE/EQUIPMENT STAGING
<ul style="list-style-type: none">• Conduct daily visual inspections for the vehicle/equipment staging area• Perform all vehicle/equipment washing at Guad Maintenance in the designated wash down area
AUDITS
<ul style="list-style-type: none">• Conduct a quarterly self-audit using the following checklist, and provide the results to NREAB.

Revised May 2021

Form 2C NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS
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SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below.		
	Outfall Number	Receiving Water Name	Latitude	Longitude
		See enclosed Table 2C.1.1	° ' "	° ' "
			° ' "	° ' "
			° ' "	° ' "

SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))

Line Drawing	2.1	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

Average Flows and Treatment	3.1	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.		
	Outfall Number _____			
	Operations Contributing to Flow			
	Operation	Average Flow		
	See enclosed Table 2C.3.1	mgd		
		mgd		
		mgd		
		mgd		
	Treatment Units			
	Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

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VA0002151

Facility Name
Marine Corps Base Quantico

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Average Flows and Treatment Continued

3.1
cont.

****Outfall Number****

Operations Contributing to Flow

Operation	Average Flow
See enclosed Table 2C.3.1	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

****Outfall Number****

Operations Contributing to Flow

Operation	Average Flow
See enclosed Table 2C.3.1	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

System
Users

- 3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?
 Yes No → SKIP to Section 4.
- 3.3 Have you attached a list that identifies each user of the treatment works?
 Yes No

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
			see Table 2C.4.2	days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days

SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))

Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 6.				
	5.2	Provide the following information on applicable ELGs.				
		ELG Category	ELG Subcategory	Regulatory Citation		
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 6.				
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.				
		Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure	

SECTION 6. IMPROVEMENTS (40 CFR 122.21(g)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 6.3.			
	6.2	Briefly identify each applicable project in the table below.			
		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates
					Required Projected
	6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (optional item) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not applicable			

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(g)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.				
	Table A. Conventional and Non-Conventional Pollutants				
	7.1	Are you requesting a waiver from your NPDES permitting authority for one or more of the Table A pollutants for any of your outfalls? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.3.			
	7.2	If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application. Outfall Number _____ Outfall Number _____ Outfall Number _____			
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls.			
	Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants				
	7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.8.			
	7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B? <input type="checkbox"/> Yes <input type="checkbox"/> No			
	7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.			
		Primary Industry Category	Required GC/MS Fraction(s) (Check applicable boxes.)		
		<input type="checkbox"/> Volatile	<input type="checkbox"/> Acid	<input type="checkbox"/> Base/Neutral	<input type="checkbox"/> Pesticide
		<input type="checkbox"/> Volatile	<input type="checkbox"/> Acid	<input type="checkbox"/> Base/Neutral	<input type="checkbox"/> Pesticide
		<input type="checkbox"/> Volatile	<input type="checkbox"/> Acid	<input type="checkbox"/> Base/Neutral	<input type="checkbox"/> Pesticide

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Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? <input type="checkbox"/> Yes <input type="checkbox"/> No			
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? <input type="checkbox"/> Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. <input checked="" type="checkbox"/> No			
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	Table C. Certain Conventional and Non-Conventional Pollutants				
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	7.13	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Table D. Certain Hazardous Substances and Asbestos				
	7.14	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	7.15	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)					
7.16	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? <input type="checkbox"/> Yes → Complete Table E. <input checked="" type="checkbox"/> No → SKIP to Section 8.				
7.17	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? <input type="checkbox"/> Yes <input type="checkbox"/> No				
SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))					
Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 9.			
	8.2	List the pollutants below.			
	1.	4.	7.		
	2.	5.	8.		
	3.	6.	9.		

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(g)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
				<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(g)(12))

Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 11.			
	10.2	Provide information for each contract laboratory or consulting firm below.			
			Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
		Name of laboratory/firm	Universal Laboratories		
		Laboratory address	20 Research Dr Hampton, VA 23666		
		Phone number	(800) 695-2162		
	Pollutant(s) analyzed	All except pH, Total Residual Chlorine, and Temperature			

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

Additional Information	11.1	Has the NPDES permitting authority requested additional information? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 12.		
	11.2	List the information requested and attach it to this application.		
		1.	4.	
		2.	5.	
		3.	6.	

EPA Identification Number
110070001339

NPDES Permit Number

Facility Name
Marine Corps Base Quantico

Form Approved 03/05/19
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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

12.1	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.		
	Column 1	Column 2	
	<input checked="" type="checkbox"/> Section 1: Outfall Location	<input checked="" type="checkbox"/> w/ attachments	
	<input checked="" type="checkbox"/> Section 2: Line Drawing	<input checked="" type="checkbox"/> w/ line drawing <input checked="" type="checkbox"/> w/ additional attachments	
	<input checked="" type="checkbox"/> Section 3: Average Flows and Treatment	<input type="checkbox"/> w/ attachments <input type="checkbox"/> w/ list of each user of privately owned treatment works	
	<input type="checkbox"/> Section 4: Intermittent Flows	<input type="checkbox"/> w/ attachments	
	<input type="checkbox"/> Section 5: Production	<input type="checkbox"/> w/ attachments	
	<input type="checkbox"/> Section 6: Improvements	<input type="checkbox"/> w/ attachments <input type="checkbox"/> w/ optional additional sheets describing any additional pollution control plans	
	<input checked="" type="checkbox"/> Section 7: Effluent and Intake Characteristics	<input type="checkbox"/> w/ request for a waiver and supporting information	<input type="checkbox"/> w/ explanation for identical outfalls
		<input type="checkbox"/> w/ small business exemption request	<input type="checkbox"/> w/ other attachments
		<input checked="" type="checkbox"/> w/ Table A	<input checked="" type="checkbox"/> w/ Table B
		<input checked="" type="checkbox"/> w/ Table C	<input checked="" type="checkbox"/> w/ Table D
		<input type="checkbox"/> w/ Table E	<input type="checkbox"/> w/ analytical results as an attachment
<input type="checkbox"/> Section 8: Used or Manufactured Toxics	<input type="checkbox"/> w/ attachments		
<input type="checkbox"/> Section 9: Biological Toxicity Tests	<input type="checkbox"/> w/ attachments		
<input checked="" type="checkbox"/> Section 10: Contract Analyses	<input checked="" type="checkbox"/> w/ attachments		
<input type="checkbox"/> Section 11: Additional Information	<input type="checkbox"/> w/ attachments		
<input checked="" type="checkbox"/> Section 12: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments		

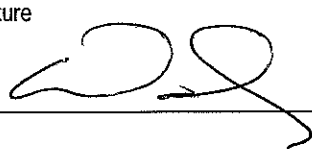
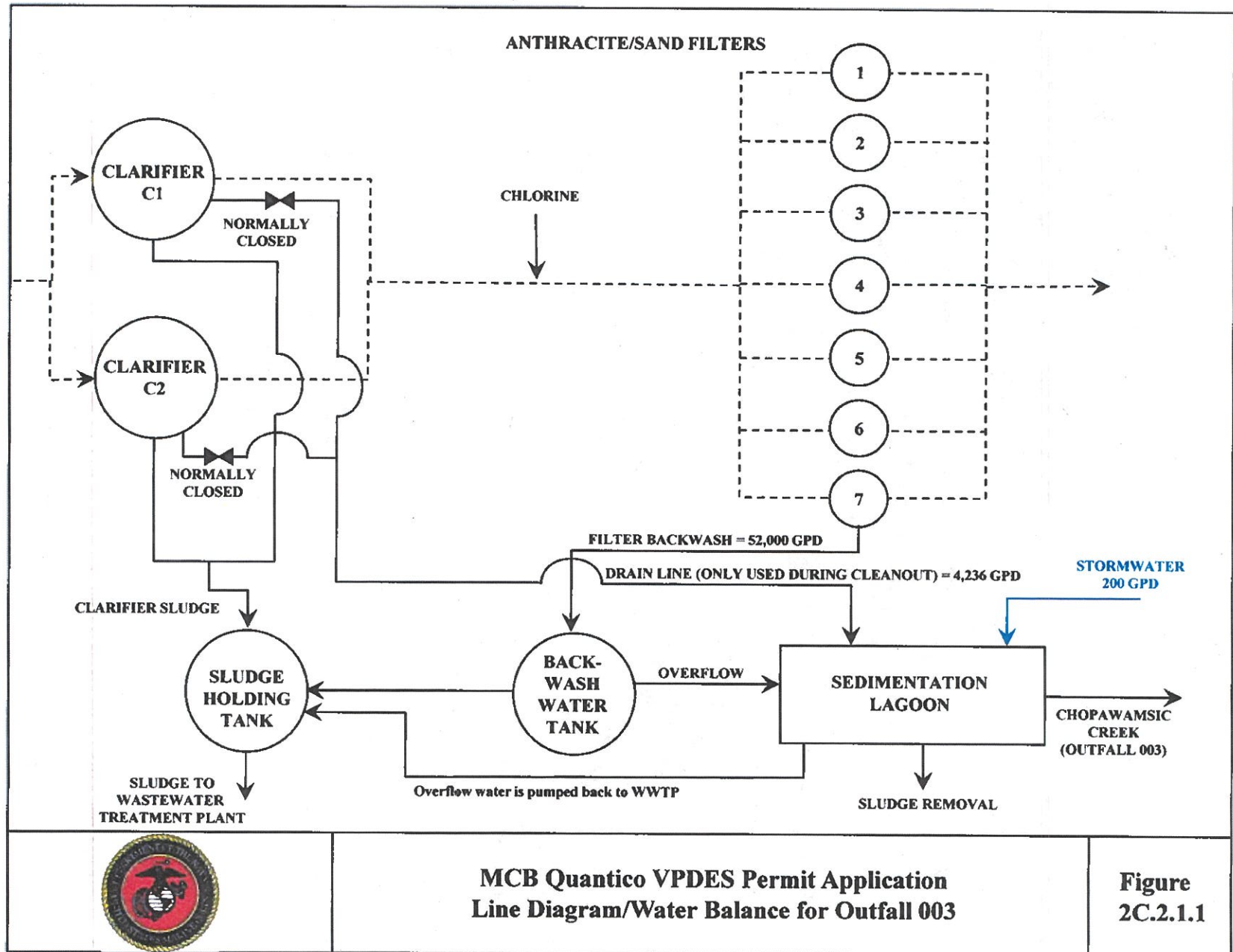
12.2 Certification Statement	
<p><i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry 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.</i></p>	
Name (print or type first and last name)	Official title
WALTER CHRISTENSEN	ENVIRONMENTAL DIRECTOR
Signature	Date signed
	20221215

Table 2C.1.1
 MCB Quantico VPDES Permit Renewal
 VPDES Permit No. VA0002151

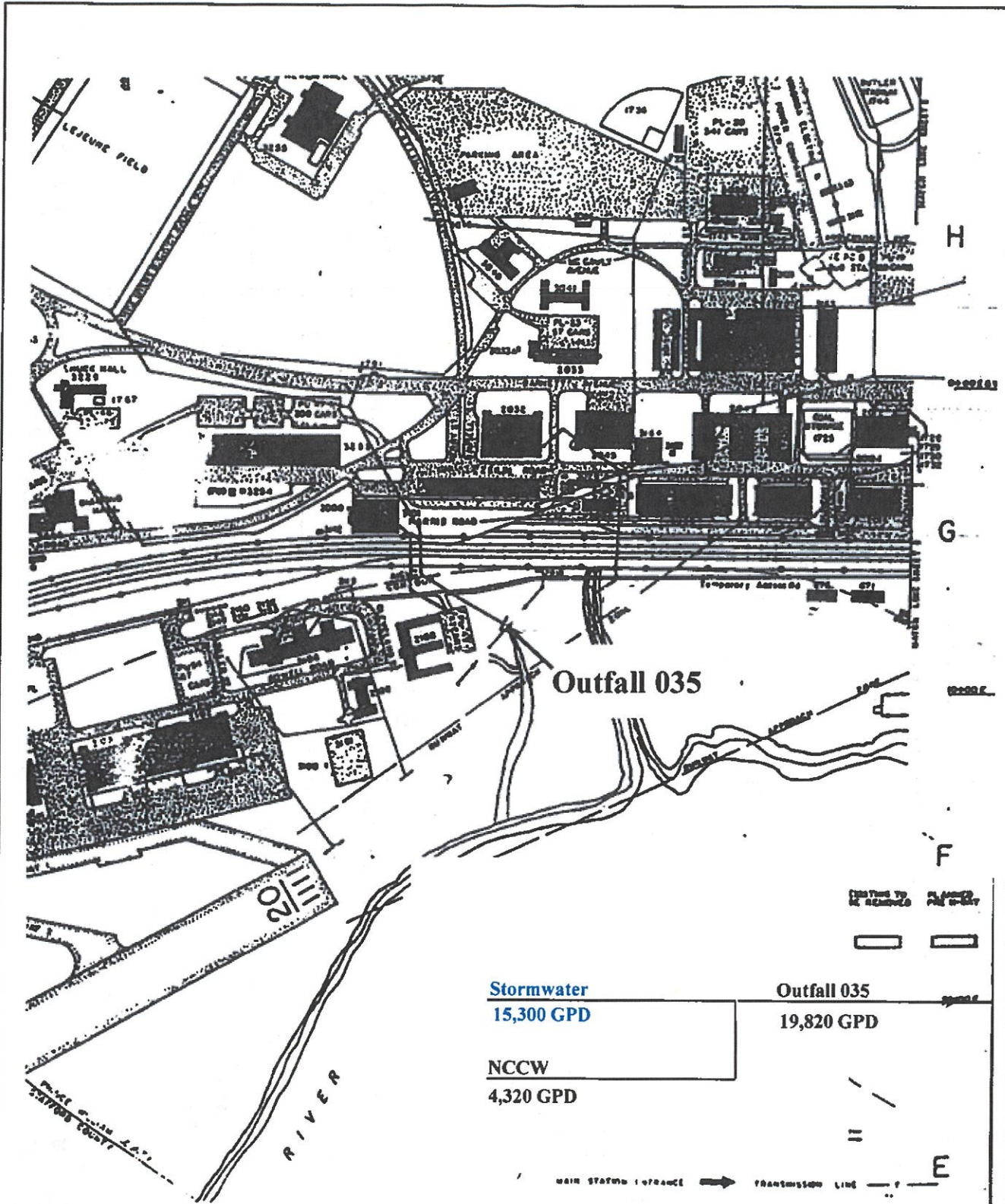
A. Outfall Number (List)	B. Latitude			C. Longitude			D. Receiving Water (Name)
	1. Deg.	2. Min	3. Sec.	1. Deg.	2. Min.	3. Sec.	
003	38	31	09	77	22	08	Chopawamsic Creek
009	38	30	21	77	18	30	Unnamed tributary to Chopawamsic Creek
010*	38	30	54	77	17	46	Unnamed tributary to Potomac River
014*	38	30	36	77	18	11	Unnamed tributary to Potomac River
016	38	30	47	77	18	11	Unnamed tributary to Potomac River
035	38	30	31	77	18	00	Unnamed tributary to Potomac River

* No required monitoring on outfall



MCB Quantico VPDES Permit Application
Line Diagram/Water Balance for Outfall 003

Figure
2C.2.1.1



Stormwater runoff estimate based on a total rainfall of 0.1 inches



MCB, Quantico VPDES Permit Application
Water Balance for Outfall 035

Figure
2C.2.1.2

Table 2C.3.1
 MCB Quantico VPDES Permit Renewal
 VPDES Permit No. VA0002151

1. Outfall No. (list)	2. Operations (a) Contributing Flow		Treatment	
	a. Operation (list)	b. Average Flow (gallons per day)	a. Description	b. List Codes from Table 2C-1
003	Mainside WTP¹			
	a. Clarifier (2) Blowdown	4,236	1,2	U,E
	b. Backwashing of 7 dual media filters	52,000	1	U
009	NCO Swimming Pool			
	a. Annual Pool Draining ²	70,000	2	E
	b. Stormwater	100	4	A
010	Mainside Drainage - North			
	b. Stormwater	310,000	4	A
	c. NCCW	12,000	4	A
014	HMX-1 Hangars and Maintenance			
	a. Mechanical Room	1,000	4	A
	b. Stormwater	91,000	4	A
016	Mainside Drainage-South			
	a. Stormwater	760,000	1	H
	c. NCCW ³	720	4	A
	d. Water softener backwash, CHP	71		
035	HMX-1 Airfield BOQ			
	b. Stormwater	15,300	4	A
	c. NCCW	4,320	4	A

- Notes:
- ¹ No regular discharge from this outfall as a result of water treatment plant operations has occurred since June 1997.
 - ² Backwash/Waste piping has been changed since the last permit issuance and all discharge is directed toward sanitary sewer and the Mainside Sewage Treatment Plant.
 - ³ NCCW is discharged May through September each year.

Table 2C.4.2
 MCB Quantico VPDES Permit Renewal
 VPDES Permit No. VA 0002151

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (LIST)	3. FREQUENCY		4. FLOW			c. DURATION (in days)	
		a. DAYS PER WEEK (specific average)	b. MONTHS PER YEAR (specific average)	a. FLOW RATE (mgd)		b. TOTAL VOLUME (specific with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE		2. MAXIMUM DAILY
003	Filter Backwash water/clarifier cleaning	Only discharges when WWTP can not accept flow due to an emergency. Very sporadic.						
009	NCO Swimming Pool - drained annually at season end in September	7 days/week	0.37 month/year	Flow rate held constant at 0.07 mgd		Approximately 750,000 gallons	11	
016	Non-Contact Cooling Water	7 days/week	6 month/year	0.0007	0.0007	0.13 mgal	182	

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 003
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TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) ¹								
Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (Optional)	
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD ₅)	<input type="checkbox"/>	Concentration	No Discharge					
		Mass						
2. Chemical oxygen demand (COD)	<input type="checkbox"/>	Concentration						
		Mass						
3. Total organic carbon (TOC)	<input type="checkbox"/>	Concentration						
		Mass						
4. Total suspended solids (TSS)	<input type="checkbox"/>	Concentration						
		Mass						
5. Ammonia (as N)	<input type="checkbox"/>	Concentration						
		Mass						
6. Flow	<input type="checkbox"/>	Rate						
7. Temperature (winter)	<input type="checkbox"/>	°C	°C					
		Temperature (summer)	<input type="checkbox"/>	°C	°C			
8. pH (minimum)	<input type="checkbox"/>	Standard units	s.u.					
		pH (maximum)	<input type="checkbox"/>	Standard units	s.u.			

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 003
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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.2 Arsenic, total (7440-38-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.3 Beryllium, total (7440-41-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.4 Cadmium, total (7440-43-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.5 Chromium, total (7440-47-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.6 Copper, total (7440-50-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.7 Lead, total (7439-92-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.8 Mercury, total (7439-97-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.9 Nickel, total (7440-02-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.10 Selenium, total (7782-49-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.11 Silver, total (7440-22-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.13	Zinc, total (7440-66-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.14	Cyanide, total (57-12-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.15	Phenols, total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)											
2.1	Acrolein (107-02-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.2	Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.3	Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.4	Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.5	Carbon tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.6	Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.7	Chlorodibromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.8	Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
2.9	2-chloroethylvinyl ether (110-75-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.10	Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.11	Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.12	1,1-dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.13	1,2-dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.15	1,2-dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.17	Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.18	Methyl bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.19	Methyl chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.20	Methylene chloride (75-09-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
2.22	Tetrachloroethylene (127-18-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.23	Toluene (108-88-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.27	Trichloroethylene (79-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.28	Vinyl chloride (75-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
3.6	2-nitrophenol (88-75-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.7	4-nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.9	Pentachlorophenol (87-86-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.10	Phenol (108-95-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.2	Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.3	Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.4	Benzidine (92-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.8	Benzo (ghi) perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.9	Benzo (k) fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.10	Bis (2-chloroethoxy) methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.11	Bis (2-chloroethyl) ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.14	4-bromophenyl phenyl ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.15	Butyl benzyl phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.16	2-chloronaphthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.17	4-chlorophenyl phenyl ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.18	Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.19	Dibenzo (a,h) anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.20	1,2-dichlorobenzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.24	Diethyl phthalate (84-66-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.25	Dimethyl phthalate (131-11-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.31	Fluoranthene (206-44-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.32	Fluorene (86-73-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.33	Hexachlorobenzene (118-74-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.36	Hexachloroethane (67-72-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.38	Isophorone (78-59-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.39	Naphthalene (91-20-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.40	Nitrobenzene (98-95-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.44	Phenanthrene (85-01-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.45	Pyrene (129-00-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))'

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.46	1,2,4-trichlorobenzene (120-82-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.2	α-BHC (319-84-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.3	β-BHC (319-85-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.4	γ-BHC (58-89-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.5	δ-BHC (319-86-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.6	Chlordane (57-74-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.7	4,4'-DDT (50-29-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.8	4,4'-DDE (72-55-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.9	4,4'-DDD (72-54-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.10	Dieldrin (60-57-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.11	α-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.12	β-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.14	Endrin (72-20-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.15	Endrin aldehyde (7421-93-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.16	Heptachlor (76-44-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.18	PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.19	PCB-1254 (11097-69-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.20	PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.21	PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.22	PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.23	PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.24	PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.25	Toxaphene (8001-35-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))'

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses

- Check here if you believe all pollutants on Table C to be **present** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for each pollutant.
- Check here if you believe all pollutants on Table C to be **absent** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for each pollutant.

1.	Bromide (24959-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
2.	Chlorine, total residual	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
3.	Color	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
4.	Fecal coliform	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
5.	Fluoride (16984-48-8)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
6.	Nitrate-nitrite	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
7.	Nitrogen, total organic (as N)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
8.	Oil and grease	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
9.	Phosphorus (as P), total (7723-14-0)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
10.	Sulfate (as SO ₄) (14808-79-8)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
11.	Sulfide (as S)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO ₃) (14265-45-3)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
13.	Surfactants	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
14.	Aluminum, total (7429-90-5)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
15.	Barium, total (7440-39-3)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
16.	Boron, total (7440-42-8)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
17.	Cobalt, total (7440-48-4)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
18.	Iron, total (7439-89-6)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
19.	Magnesium, total (7439-95-4)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
20.	Molybdenum, total (7439-98-7)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
21.	Manganese, total (7439-96-5)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
22.	Tin, total (7440-31-5)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						
23.	Titanium, total (7440-32-6)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration Mass						

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
Beta, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
Radium, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
Radium 226, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2.	Acetaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3.	Allyl alcohol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.	Allyl chloride	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
5.	Amyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
6.	Aniline	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
7.	Benzonitrile	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
8.	Benzyl chloride	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
9.	Butyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
10.	Butylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
11.	Captan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
12.	Carbaryl	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
13.	Carbofuran	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
14.	Carbon disulfide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
15.	Chlorpyrifos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
16.	Coumaphos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
17.	Cresol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
18.	Crotonaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
19.	Cyclohexane	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
21.	Diazinon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
22.	Dicamba	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
23.	Dichlobenil	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
24.	Dichlone	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
25.	2,2-dichloropropionic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
26.	Dichlorvos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
27.	Diethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
28.	Dimethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
29.	Dinitrobenzene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
30.	Diquat	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
31.	Disulfoton	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
32.	Diuron	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
33.	Epichlorohydrin	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
34.	Ethion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
35.	Ethylene diamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
36.	Ethylene dibromide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
37.	Formaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
38.	Furfural	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
40.	Isoprene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
41.	Isopropanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
42.	Kelthane	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
43.	Kepone	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
44.	Malathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
45.	Mercaptodimethur	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
46.	Methoxychlor	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
47.	Methyl mercaptan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
48.	Methyl methacrylate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
49.	Methyl parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
50.	Mevinphos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
51.	Mexacarbate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
52.	Monoethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
53.	Monomethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
54.	Naled	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
55.	Naphthenic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
56.	Nitrotoluene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
57.	Parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
59.	Phosgene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
60.	Propargite	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
61.	Propylene oxide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
62.	Pyrethrins	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
63.	Quinoline	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
64.	Resorcinol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
65.	Strontium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
66.	Strychnine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
67.	Styrene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
69.	TDE (tetrachlorodiphenyl ethane)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
71.	Trichlorofon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
72.	Triethanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
73.	Triethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
74.	Trimethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
75.	Uranium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
76.	Vanadium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
78.	Xylene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
79.	Xylenol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
80.	Zirconium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (Optional)	
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD ₅)	<input type="checkbox"/>	Concentration		No Discharge				
		Mass						
2. Chemical oxygen demand (COD)	<input type="checkbox"/>	Concentration						
		Mass						
3. Total organic carbon (TOC)	<input type="checkbox"/>	Concentration						
		Mass						
4. Total suspended solids (TSS)	<input type="checkbox"/>	Concentration						
		Mass						
5. Ammonia (as N)	<input type="checkbox"/>	Concentration						
		Mass						
6. Flow	<input type="checkbox"/>	Rate						
7. Temperature	<input type="checkbox"/>	winter	°C	°C				
		summer	°C	°C				
8. pH	<input type="checkbox"/>	minimum	Standard units	s.u.				
		maximum	Standard units	s.u.				

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.2 Arsenic, total (7440-38-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.3 Beryllium, total (7440-41-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.4 Cadmium, total (7440-43-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.5 Chromium, total (7440-47-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.6 Copper, total (7440-50-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.7 Lead, total (7439-92-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.8 Mercury, total (7439-97-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.9 Nickel, total (7440-02-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.10 Selenium, total (7782-49-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					
1.11 Silver, total (7440-22-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass					

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
1.13	Zinc, total (7440-66-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
1.14	Cyanide, total (57-12-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
1.15	Phenols, total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)

2.1	Acrolein (107-02-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.2	Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.3	Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.4	Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.5	Carbon tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.6	Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.7	Chlorodibromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.8	Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
2.9	2-chloroethylvinyl ether (110-75-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.10	Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.11	Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.12	1,1-dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.13	1,2-dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.15	1,2-dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.17	Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.18	Methyl bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.19	Methyl chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.20	Methylene chloride (75-09-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
2.22	Tetrachloroethylene (127-18-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
2.23	Toluene (108-88-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
2.25	1,1,1-trichloroethane (71-55-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
2.26	1,1,2-trichloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
2.27	Trichloroethylene (79-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
2.28	Vinyl chloride (75-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
3.2	2,4-dichlorophenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
3.3	2,4-dimethylphenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
3.5	2,4-dinitrophenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
3.7	4-nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
3.8	p-chloro-m-cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
3.9	Pentachlorophenol (87-86-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
3.10	Phenol (108-95-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
3.11	2,4,6-trichlorophenol (88-05-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)											
4.1	Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.2	Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.3	Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.4	Benzidine (92-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.5	Benzo (a) anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.6	Benzo (a) pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.8	Benzo (ghi) perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.9	Benzo (k) fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.10	Bis (2-chloroethoxy) methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.11	Bis (2-chloroethyl) ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.14	4-bromophenyl phenyl ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.15	Butyl benzyl phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.16	2-chloronaphthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.17	4-chlorophenyl phenyl ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.18	Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.19	Dibenzo (a,h) anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.20	1,2-dichlorobenzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.24	Diethyl phthalate (84-66-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.25	Dimethyl phthalate (131-11-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.31	Fluoranthene (206-44-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.32	Fluorene (86-73-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.33	Hexachlorobenzene (118-74-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.36	Hexachloroethane (67-72-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.38	Isophorone (78-59-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.39	Naphthalene (91-20-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.40	Nitrobenzene (98-95-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.44	Phenanthrene (85-01-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.45	Pyrene (129-00-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.46	1,2,4-trichlorobenzene (120-82-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.2	α-BHC (319-84-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.3	β-BHC (319-85-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.4	γ-BHC (58-89-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.5	δ-BHC (319-86-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.6	Chlordane (57-74-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.7	4,4'-DDT (50-29-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.8	4,4'-DDE (72-55-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.9	4,4'-DDD (72-54-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.10	Dieldrin (60-57-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.11	α-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.12	β-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.14	Endrin (72-20-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.15	Endrin aldehyde (7421-93-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.16	Heptachlor (76-44-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.18	PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.19	PCB-1254 (11097-69-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.20	PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.21	PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.22	PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.23	PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.24	PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.25	Toxaphene (8001-35-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for <i>each</i> pollutant.									
<input checked="" type="checkbox"/> Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for <i>each</i> pollutant.									
1. Bromide (24959-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
2. Chlorine, total residual	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
3. Color	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
4. Fecal coliform	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
5. Fluoride (16984-48-8)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
6. Nitrate-nitrite	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
7. Nitrogen, total organic (as N)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
8. Oil and grease	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
9. Phosphorus (as P), total (7723-14-0)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
10. Sulfate (as SO ₄) (14808-79-8)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
11. Sulfide (as S)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO ₃) (14265-45-3)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
13.	Surfactants	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
14.	Aluminum, total (7429-90-5)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
15.	Barium, total (7440-39-3)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
16.	Boron, total (7440-42-8)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
17.	Cobalt, total (7440-48-4)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
18.	Iron, total (7439-89-6)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
19.	Magnesium, total (7439-95-4)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
20.	Molybdenum, total (7439-98-7)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
21.	Manganese, total (7439-96-5)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
22.	Tin, total (7440-31-5)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						
23.	Titanium, total (7440-32-6)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
				Mass						

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
Beta, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
Radium, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						
Radium 226, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
			Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2.	Acetaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3.	Allyl alcohol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.	Allyl chloride	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
5.	Amyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
6.	Aniline	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
7.	Benzonitrile	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
8.	Benzyl chloride	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
9.	Butyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
10.	Butylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
11.	Captan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
12.	Carbaryl	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
13.	Carbofuran	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
14.	Carbon disulfide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
15.	Chlorpyrifos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
16.	Coumaphos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
17.	Cresol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
18.	Crotonaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
19.	Cyclohexane	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
21.	Diazinon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
22.	Dicamba	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
23.	Dichlobenil	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
24.	Dichlone	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
25.	2,2-dichloropropionic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
26.	Dichlorvos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
27.	Diethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
28.	Dimethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
29.	Dinitrobenzene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
30.	Diquat	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
31.	Disulfoton	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
32.	Diuron	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
33.	Epichlorohydrin	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
34.	Ethion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
35.	Ethylene diamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
36.	Ethylene dibromide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
37.	Formaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
38.	Furfural	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
40.	Isoprene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
41.	Isopropanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
42.	Kelthane	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
43.	Kepone	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
44.	Malathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
45.	Mercaptodimethur	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
46.	Methoxychlor	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
47.	Methyl mercaptan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
48.	Methyl methacrylate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
49.	Methyl parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
50.	Mevinphos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
51.	Mexacarbate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
52.	Monoethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
53.	Monomethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
54.	Naled	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
55.	Naphthenic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
56.	Nitrotoluene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
57.	Parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
59.	Phosgene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
60.	Propargite	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
61.	Propylene oxide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
62.	Pyrethrins	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
63.	Quinoline	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
64.	Resorcinol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
65.	Strontium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
66.	Strychnine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
67.	Styrene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
69.	TDE (tetrachlorodiphenyl ethane)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
71.	Trichlorofon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
72.	Triethanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
73.	Triethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
74.	Trimethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
75.	Uranium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
76.	Vanadium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
78.	Xylene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
79.	Xylenol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
80.	Zirconium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (Optional)	
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD ₅)	<input type="checkbox"/>	Concentration	mg/l	3			1	
		Mass						
2. Chemical oxygen demand (COD)	<input type="checkbox"/>	Concentration	mg/l	26.6			1	
		Mass						
3. Total organic carbon (TOC)	<input type="checkbox"/>	Concentration	mg/l	2.88			1	
		Mass						
4. Total suspended solids (TSS)	<input type="checkbox"/>	Concentration	mg/l	15.6			1	
		Mass						
5. Ammonia (as N)	<input type="checkbox"/>	Concentration	mg/l	0.44			1	
		Mass						
6. Flow	<input type="checkbox"/>	Rate	MGD	0.0023			1	
7. Temperature	<input type="checkbox"/>	winter	°C	°C	17.7		1	
		summer	°C	°C			1	
8. pH	<input type="checkbox"/>	minimum	Standard units	s.u.	6.42		1	
		maximum	Standard units	s.u.	6.42		1	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
<input type="checkbox"/> Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.											
Section 1. Toxic Metals, Cyanide, and Total Phenols											
1.1	Antimony, total (7440-36-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.2	Arsenic, total (7440-38-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.3	Beryllium, total (7440-41-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.4	Cadmium, total (7440-43-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.5	Chromium, total (7440-47-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.6	Copper, total (7440-50-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.7	Lead, total (7439-92-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.8	Mercury, total (7439-97-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.9	Nickel, total (7440-02-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.10	Selenium, total (7782-49-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.11	Silver, total (7440-22-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.13	Zinc, total (7440-66-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.14	Cyanide, total (57-12-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.15	Phenols, total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)											
2.1	Acrolein (107-02-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.2	Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.3	Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.4	Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.5	Carbon tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.6	Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.7	Chlorodibromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.8	Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent			Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.10	Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.11	Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.12	1,1-dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.13	1,2-dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.14	1,1-dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.15	1,2-dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.16	1,3-dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.17	Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.18	Methyl bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.19	Methyl chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.20	Methylene chloride (75-09-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.21	1,1,1,2-tetrachloroethane (79-34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
2.22	Tetrachloroethylene (127-18-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.23	Toluene (108-88-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.27	Trichloroethylene (79-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.28	Vinyl chloride (75-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
3.6	2-nitrophenol (88-75-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.7	4-nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.9	Pentachlorophenol (87-86-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.10	Phenol (108-95-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.2	Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.3	Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.4	Benzidine (92-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.8	Benzo (ghi) perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.9	Benzo (k) fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.10	Bis (2-chloroethoxy) methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.11	Bis (2-chloroethyl) ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.14	4-bromophenyl phenyl ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.15	Butyl benzyl phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.16	2-chloronaphthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.17	4-chlorophenyl phenyl ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.18	Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.19	Dibenzo (a,h) anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.20	1,2-dichlorobenzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.24	Diethyl phthalate (84-66-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.25	Dimethyl phthalate (131-11-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.31	Fluoranthene (206-44-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.32	Fluorene (86-73-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.34	Hexachlorobutadiene (87-68-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.35	Hexachlorocyclopentadiene (77-47-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.36	Hexachloroethane (67-72-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.38	Isophorone (78-59-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.39	Naphthalene (91-20-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.40	Nitrobenzene (98-95-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.41	N-nitrosodimethylamine (62-75-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.42	N-nitrosodi-n-propylamine (621-64-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.43	N-nitrosodiphenylamine (86-30-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.44	Phenanthrene (85-01-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.45	Pyrene (129-00-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.46	1,2,4-trichlorobenzene (120-82-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.2	α-BHC (319-84-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.3	β-BHC (319-85-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.4	γ-BHC (58-89-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.5	δ-BHC (319-86-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.6	Chlordane (57-74-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.7	4,4'-DDT (50-29-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.8	4,4'-DDE (72-55-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.9	4,4'-DDD (72-54-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.10	Dieldrin (60-57-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.11	α-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.13	Endosulfan sulfate (1031-07-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.14	Endrin (72-20-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.15	Endrin aldehyde (7421-93-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.16	Heptachlor (76-44-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.17	Heptachlor epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.18	PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.19	PCB-1254 (11097-69-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.20	PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.21	PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.22	PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.23	PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
5.24	PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.25 Toxaphene (8001-35-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
				Mass							

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
<input type="checkbox"/> Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
1. Bromide (24959-67-9)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
2. Chlorine, total residual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.00			1	
			Mass						
3. Color	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
4. Fecal coliform	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
5. Fluoride (16984-48-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
6. Nitrate-nitrite	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.35			1	
			Mass						
7. Nitrogen, total organic (as N)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	1.43			1	
			Mass						
8. Oil and grease	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
9. Phosphorus (as P), total (7723-14-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.10			1	
			Mass						
10. Sulfate (as SO ₄) (14808-79-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
11. Sulfide (as S)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO ₃) (14265-45-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
13.	Surfactants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
14.	Aluminum, total (7429-90-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
15.	Barium, total (7440-39-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
16.	Boron, total (7440-42-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
17.	Cobalt, total (7440-48-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
18.	Iron, total (7439-89-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
19.	Magnesium, total (7439-95-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
20.	Molybdenum, total (7439-98-7)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
21.	Manganese, total (7439-96-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
22.	Tin, total (7440-31-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						
23.	Titanium, total (7440-32-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
				Mass						

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi)) ¹									
Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
Beta, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
Radium, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
Radium 226, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2.	Acetaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3.	Allyl alcohol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.	Allyl chloride	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
5.	Amyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
6.	Aniline	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
7.	Benzonitrile	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
8.	Benzyl chloride	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
9.	Butyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
10.	Butylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
11.	Captan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
12.	Carbaryl	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
13.	Carbofuran	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
14.	Carbon disulfide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
15.	Chlorpyrifos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
16.	Coumaphos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
17.	Cresol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
18.	Crotonaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
19.	Cyclohexane	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
21.	Diazinon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
22.	Dicamba	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
23.	Dichlobenil	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
24.	Dichlone	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
25.	2,2-dichloropropionic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
26.	Dichlorvos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
27.	Diethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
28.	Dimethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
29.	Dinitrobenzene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
30.	Diquat	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
31.	Disulfoton	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
32.	Diuron	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
33.	Epichlorohydrin	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
34.	Ethion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
35.	Ethylene diamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
36.	Ethylene dibromide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
37.	Formaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
38.	Furfural	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
40.	Isoprene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
41.	Isopropanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
42.	Kelthane	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
43.	Kepone	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
44.	Malathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
45.	Mercaptodimethur	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
46.	Methoxychlor	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
47.	Methyl mercaptan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
48.	Methyl methacrylate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
49.	Methyl parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
50.	Mevinphos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
51.	Mexacarbate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
52.	Monoethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
53.	Monomethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
54.	Naled	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
55.	Naphthenic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
56.	Nitrotoluene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
57.	Parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
59.	Phosgene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
60.	Propargite	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
61.	Propylene oxide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
62.	Pyrethrins	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
63.	Quinoline	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
64.	Resorcinol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
65.	Strontium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
66.	Strychnine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
67.	Styrene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
69.	TDE (tetrachlorodiphenyl ethane)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
71.	Trichlorofon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
72.	Triethanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
73.	Triethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
74.	Trimethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
75.	Uranium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
76.	Vanadium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
78.	Xylene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
79.	Xylenol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
80.	Zirconium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

Pollutant	Waiver Requested (if applicable)	Units (specify)		Effluent				Intake (Optional)	
				Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.									
1. Biochemical oxygen demand (BOD ₅)	<input type="checkbox"/>	Concentration	mg/l	5			1		
		Mass							
2. Chemical oxygen demand (COD)	<input type="checkbox"/>	Concentration	mg/l	ND			1		
		Mass							
3. Total organic carbon (TOC)	<input type="checkbox"/>	Concentration	mg/l	3.42			1		
		Mass							
4. Total suspended solids (TSS)	<input type="checkbox"/>	Concentration	mg/l	3.7			1		
		Mass							
5. Ammonia (as N)	<input type="checkbox"/>	Concentration	mg/l	ND			1		
		Mass							
6. Flow	<input type="checkbox"/>	Rate	MGD	0.0046			1		
7. Temperature	<input type="checkbox"/>	winter	°C	°C	16.0		1		
	<input type="checkbox"/>	summer	°C	°C			1		
8. pH	<input type="checkbox"/>	minimum	Standard units	s.u.	6.88		1		
	<input type="checkbox"/>	maximum	Standard units	s.u.	6.88		1		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses

Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.

Section 1. Toxic Metals, Cyanide, and Total Phenols

1.1	Antimony, total (7440-36-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.2	Arsenic, total (7440-38-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.3	Beryllium, total (7440-41-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.4	Cadmium, total (7440-43-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.5	Chromium, total (7440-47-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.6	Copper, total (7440-50-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.7	Lead, total (7439-92-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.8	Mercury, total (7439-97-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.9	Nickel, total (7440-02-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.10	Selenium, total (7782-49-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
1.11	Silver, total (7440-22-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.13	Zinc, total (7440-66-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.14	Cyanide, total (57-12-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.15	Phenols, total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)											
2.1	Acrolein (107-02-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.2	Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.3	Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.4	Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.5	Carbon tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.6	Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.7	Chlorodibromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
2.8	Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
2.9	2-chloroethylvinyl ether (110-75-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.10	Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.11	Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.12	1,1-dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.13	1,2-dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.15	1,2-dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.17	Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.18	Methyl bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.19	Methyl chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.20	Methylene chloride (75-09-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
2.22	Tetrachloroethylene (127-18-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.23	Toluene (108-88-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.27	Trichloroethylene (79-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
2.28	Vinyl chloride (75-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
3.6	2-nitrophenol (88-75-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.7	4-nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.9	Pentachlorophenol (87-86-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.10	Phenol (108-95-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.2	Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.3	Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.4	Benzidine (92-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.7	3,4-benzofluoranthene (205-99-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.10	Bis (2-chloroethoxy) methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.14	4-bromophenyl phenyl ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.15	Butyl benzyl phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.16	2-chloronaphthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.18	Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.20	1,2-dichlorobenzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.24	Diethyl phthalate (84-66-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.25	Dimethyl phthalate (131-11-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.31	Fluoranthene (206-44-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
4.32	Fluorene (86-73-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.34	Hexachlorobutadiene (87-68-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.35	Hexachlorocyclopentadiene (77-47-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.36	Hexachloroethane (67-72-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.38	Isophorone (78-59-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.39	Naphthalene (91-20-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.40	Nitrobenzene (98-95-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.41	N-nitrosodimethylamine (62-75-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.42	N-nitrosodi-n-propylamine (621-64-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.43	N-nitrosodiphenylamine (86-30-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.44	Phenanthrene (85-01-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.45	Pyrene (129-00-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.46	1,2,4-trichlorobenzene (120-82-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.2	α-BHC (319-84-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.3	β-BHC (319-85-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.4	γ-BHC (58-89-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.5	δ-BHC (319-86-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.6	Chlordane (57-74-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.7	4,4'-DDT (50-29-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.8	4,4'-DDE (72-55-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.9	4,4'-DDD (72-54-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.10	Dieldrin (60-57-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							
5.11	α-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.12	β-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.13	Endosulfan sulfate (1031-07-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.14	Endrin (72-20-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.15	Endrin aldehyde (7421-93-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.16	Heptachlor (76-44-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.17	Heptachlor epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.18	PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.19	PCB-1254 (11097-69-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.20	PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.21	PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.22	PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.23	PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.24	PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.25 Toxaphene (8001-35-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration							
				Mass							

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
<input type="checkbox"/> Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
1. Bromide (24959-67-9)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
2. Chlorine, total residual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.00			1	
			Mass						
3. Color	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
4. Fecal coliform	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
5. Fluoride (16984-48-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
6. Nitrate-nitrite	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	1.02			1	
			Mass						
7. Nitrogen, total organic (as N)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	1.32			1	
			Mass						
8. Oil and grease	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
9. Phosphorus (as P), total (7723-14-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.06			1	
			Mass						
10. Sulfate (as SO ₄) (14808-79-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
11. Sulfide (as S)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO ₃) (14265-45-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
13.	Surfactants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
14.	Aluminum, total (7429-90-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
15.	Barium, total (7440-39-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
16.	Boron, total (7440-42-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
17.	Cobalt, total (7440-48-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
18.	Iron, total (7439-89-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
19.	Magnesium, total (7439-95-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
20.	Molybdenum, total (7439-98-7)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
21.	Manganese, total (7439-96-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
22.	Tin, total (7440-31-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
23.	Titanium, total (7440-32-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 035
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
Beta, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
Radium, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
Radium 226, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 035
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2.	Acetaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3.	Allyl alcohol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.	Allyl chloride	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
5.	Amyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
6.	Aniline	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
7.	Benzonitrile	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
8.	Benzyl chloride	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
9.	Butyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
10.	Butylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
11.	Captan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
12.	Carbaryl	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
13.	Carbofuran	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
14.	Carbon disulfide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
15.	Chlorpyrifos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
16.	Coumaphos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
17.	Cresol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
18.	Crotonaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
19.	Cyclohexane	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 035
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
21.	Diazinon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
22.	Dicamba	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
23.	Dichlobenil	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
24.	Dichlone	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
25.	2,2-dichloropropionic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
26.	Dichlorvos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
27.	Diethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
28.	Dimethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
29.	Dinitrobenzene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
30.	Diquat	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
31.	Disulfoton	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
32.	Diuron	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
33.	Epichlorohydrin	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
34.	Ethion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
35.	Ethylene diamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
36.	Ethylene dibromide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
37.	Formaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
38.	Furfural	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 035
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
40.	Isoprene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
41.	Isopropanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
42.	Kelthane	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
43.	Kepone	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
44.	Malathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
45.	Mercaptodimethur	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
46.	Methoxychlor	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
47.	Methyl mercaptan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
48.	Methyl methacrylate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
49.	Methyl parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
50.	Mevinphos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
51.	Mexacarbate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
52.	Monoethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
53.	Monomethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
54.	Naled	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
55.	Naphthenic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
56.	Nitrotoluene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
57.	Parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 035
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
59.	Phosgene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
60.	Propargite	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
61.	Propylene oxide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
62.	Pyrethrins	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
63.	Quinoline	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
64.	Resorcinol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
65.	Strontium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
66.	Strychnine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
67.	Styrene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
69.	TDE (tetrachlorodiphenyl ethane)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
71.	Trichlorofon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
72.	Triethanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
73.	Triethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
74.	Trimethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
75.	Uranium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
76.	Vanadium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 035
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
78.	Xylene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
79.	Xylenol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
80.	Zirconium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).



Universal Laboratories
20 Research Drive
Hampton, VA 23666
Phone: 1-800-695-2162
Fax: 757-865-8014

Client Report For: Marine Base Quantico NREA

Attention: Dylan Lane

Client Address: 3250 Catlin Avenue
NREA (B046)
Quantico, VA 22134

Project: Form 2C Table A OF-016

Order Number: 2209180

Report Date: 11/03/2022

Lab Receipt Date: 10/12/2022

Comment: This report contains the analytical results for the indicated Project and Order. The results contained in this report relate only to the samples identified in this Order. The analytical results meet all requirements of the 2009 TNI Standard, unless specifically stated or laboratory does not hold accreditation as seen in the Cert # column. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by: Carol K Zeno Signature

Carol K Zeno Name

President Director Title

Universal Laboratories

Client: Marine Base Quantico NREA

Lab ID: 2209180-001

Permit ID

Client Sample ID: OF-016 Grab

Collection Date: 10/12/2022 09:50

Matrix: AQUEOUS

Analyses

Biochemical Oxygen Demand (BOD) 5 Day

SM 5210 B (2011)

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		10/12/2022 13:55	BS		
Sample Receipt Temperature	1	C		10/12/2022 13:55	BS		
Biochemical Oxygen Demand	3	mg/L	2	10/12/2022 13:55	BS		460036

Chemical Oxygen Demand

HACH 8000

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		10/18/2022 09:54	LP		
Holding Time Met	Yes	Yes/No		10/18/2022 09:54	LP		
Sample Receipt Temperature	1	C		10/18/2022 09:54	LP		
Chemical Oxygen Demand	26.6	mg/L	20	10/18/2022 09:54	LP		460036

Solids, Total Suspended

SM 2540D (2011)

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		10/13/2022 17:37	BS		
Sample Receipt Temperature	1	C		10/13/2022 17:37	BS		
Solids, Total Suspended	15.6	mg/L	1	10/13/2022 17:37	BS		460036

Ammonia as N, Total

EPA 350.1

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		10/13/2022 16:13	MKL		
Holding Time Met	Yes	Yes/No		10/13/2022 16:13	MKL		
Sample Receipt Temperature	1	C		10/13/2022 16:13	MKL		
Ammonia as N	0.44	mg/L	0.2	10/13/2022 16:13	MKL		460036

Glossary of Terms and Abbreviations

ND	No analyte detected at or above the RL (Reporting Limit) listed
NR	No Results available, analyte not in instrument calibration
RL	(Reporting Limit) The minimum levels, concentrations, or quantities of a target analyte that can be reported within a specified degree of confidence. Generally, this number is equal to or just above the lowest calibration standard run with the analytical batch.
B	Analyte was found in the method blank
D	RPD outside acceptable limits
H	Holding time exceeded
IS	Internal standard outside acceptable limits
J	Result above calibration curve - results are approximate
L	LCS Outside acceptable limits
MI	Matrix interference
MS	Matrix spike recovery outside acceptable limits
QC	Method QC criteria not met
S	Surrogate outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
LCS	(Laboratory Control Sample) A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	Method Detection Limit is an estimate of the minimum amount of a substance that an analytical process can reliably detect
RPD	(Relative Percent Difference) The difference between a set of duplicates or sample spike duplicates.
MS/MSD	(Matrix Spike or Matrix Spike Duplicate) A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analytes concentration is available. Matrix Spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.
Calibration Verification	(Initial, Continuing, or Final) A standard analyzed at different times to verify that the initial calibration curve is still valid.
Holding Time	The maximum time that samples may be held prior to analysis and still be considered valid or not compromised.
Internal Standard	A known amount of standard added to a test portion of a sample as a reference for evaluating and controlling the precision and bias of the applied analytical method.
Method Blank	A sample of a matrix similar to the batch associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples.
Surrogate	A substance with properties that mimic the analyte of interest. It is unlikely to be found in environmental samples and is added to them for quality control purposes in Organics.
EPL	Exceeds Permit Limit. This is a qualifier to denote that the result exceeds the permit limit of the sample location.
Exceeds Benchmark Concentration	Result Exceeds Benchmark concentration listed in the General Permit. Benchmark Concentrations are primarily used to determine the overall effectiveness of the Stormwater pollution prevention plan. Exceedence of Benchmark concentrations does NOT constitute a violation of this permit and does NOT indicate that violation of a water quality standard has occurred.
*	If present under the "Cert #" column, indicates that the laboratory does not have 2009 TNI accreditation in Virginia. These analytes should not be reported for Virginia Air, Water, or Waste Laws or the Safe Drinking Water Act to meet their requirements.
460036	If present under the "Cert #" Column, indicates that the laboratory holds accreditation under the 2009 TNI Standard in Virginia.
R	SM 5210B-2011 7.b. Test replicates show more than 30% difference between high and low values



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M2J0907

Project Description

Universal Labs

For:

Dan Thornton

Universal Laboratories, Inc.

20 Research Drive

Hampton, VA 23666

Project Manager

Alicia Walker

Thursday, October 20, 2022

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories Inc., - Marietta, OH. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M2J0907

Universal Laboratories, Inc.

Project Name: Universal Labs

Dan Thornton
20 Research Drive
Hampton, VA 23666

Project / PO Number: 101322-008
Received: 10/14/2022
Reported: 10/20/2022

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
2209180-001 E	M2J0907-01	Aqueous			10/12/22 13:42	10/14/22 10:15



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M2J0907

Analytical Testing Parameters

Client Sample ID:	2209180-001 E	Collection Date:	10/12/2022 13:42
Sample Matrix:	Aqueous		
Lab Sample ID:	M2J0907-01		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
SM 5310 C-2011								
Total Organic Carbon - TOC	2.88	1.00	mg/L	1		10/17/22 1556	10/18/22 2117	DIH

Definitions

mg/L: Milligrams per Liter
 RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.4°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd ?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH
 460187

Virginia Department of General Services

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<https://www.microbac.com/standard-terms-conditions>>.

Reviewed and Approved By:

Alicia Walker

Project Manager

Reported: 10/20/2022 11:22

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com

Universal Laboratories

Marine Base Quantico NREA

3250 Catlin Avenue

Quantico, VA, 22134

Contact: Dylan Lane, 703-432-0527, dylan.lane@usmc.mil

Client PO/Project Name _____

CHAIN OF CUSTODY

ID: 2209180

Form 2C Table A OF-016

20 Research Drive

Hampton, VA 23666

1-800-695-2162

<http://www.universallaboratories.net>

Page 1 of 1

Sample Name	UL Sample ID	Matrix	Sample Date/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-016 Grab	2209180-001	AQUEOUS	10/12/22 <i>DL</i> 0150	001A	1/HDPE	H2SO4/<6°C	Waste, BOD, COD, TOC, TSS, NH3 <i>DL</i> <i>DL</i>
		AQUEOUS		001B	1/HDPE	<6°C	
		AQUEOUS		001C	2/HDPE	<6°C	
		AQUEOUS		001D	500/HDPE	H2SO4/<6°C	
		AQUEOUS		001E	150/HDPE	H2SO4/<6°C	

NOTES:

Phenol int check _____ CN int check _____ BOD int check _____ NH3 int check _____

Cooler Temp 4/22°C

TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by	<i>[Signature]</i>	10/12/22 10:06	Received by	<i>[Signature]</i>	10/12/22 10:06
Relinquished by			Received by	<i>[Signature]</i>	10/12/22 13:06
Relinquished by			Received by		
Relinquished by			Received by		



Universal Laboratories
20 Research Drive
Hampton, VA 23666
Phone: 1-800-695-2162
Fax: 757-865-8014

Client Report For: Marine Base Quantico NREA

Attention: Dylan Lane

Client Address: 3250 Catlin Avenue
NREA (B046)
Quantico, VA 22134

Project: Form 2C Table A OF-035

Order Number: 2209181

Report Date: 10/20/2022

Lab Receipt Date: 10/12/2022

Comment: This report contains the analytical results for the indicated Project and Order. The results contained in this report relate only to the samples identified in this Order. The analytical results meet all requirements of the 2009 TNI Standard, unless specifically stated or laboratory does not hold accreditation as seen in the Cert # column. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by: Carol K Zeno Signature

Carol K Zeno Name

Presteel Director Title

Universal Laboratories

Client: Marine Base Quantico NREA

Lab ID: 2209181-001

Permit ID

Client Sample ID: OF-035 Grab

Collection Date: 10/12/2022 09:40

Matrix: AQUEOUS

Analyses

Biochemical Oxygen Demand (BOD) 5 Day

SM 5210 B (2011)

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		10/13/2022 10:53	BS		
Sample Receipt Temperature	1	C		10/13/2022 10:53	BS		
Biochemical Oxygen Demand	5	mg/L	2	10/13/2022 10:53	BS		460036

Chemical Oxygen Demand

HACH 8000

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		10/18/2022 09:54	LP		
Holding Time Met	Yes	Yes/No		10/18/2022 09:54	LP		
Sample Receipt Temperature	1	C		10/18/2022 09:54	LP		
Chemical Oxygen Demand	ND	mg/L	20	10/18/2022 09:54	LP		460036

Solids, Total Suspended

SM 2540D (2011)

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		10/13/2022 17:37	BS		
Sample Receipt Temperature	1	C		10/13/2022 17:37	BS		
Solids, Total Suspended	3.7	mg/L	1	10/13/2022 17:37	BS		460036

Ammonia as N, Total

EPA 350.1

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		10/13/2022 16:13	MKL		
Holding Time Met	Yes	Yes/No		10/13/2022 16:13	MKL		
Sample Receipt Temperature	1	C		10/13/2022 16:13	MKL		
Ammonia as N	ND	mg/L	0.2	10/13/2022 16:13	MKL		460036

Glossary of Terms and Abbreviations

ND	No analyte detected at or above the RL (Reporting Limit) listed
NR	No Results available, analyte not in instrument calibration
RL	(Reporting Limit) The minimum levels, concentrations, or quantiles of a target analyte that can be reported within a specified degree of confidence. Generally, this number is equal to or just above the lowest calibration standard run with the analytical batch.
B	Analyte was found in the method blank
D	RPD outside acceptable limits
H	Holding time exceeded
IS	Internal standard outside acceptable limits
J	Result above calibration curve - results are approximate
L	LCS Outside acceptable limits
MI	Matrix interference
MS	Matrix spike recovery outside acceptable limits
QC	Method QC criteria not met
S	Surrogate outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
LCS	(Laboratory Control Sample) A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	Method Detection Limit is an estimate of the minimum amount of a substance that an analytical process can reliably detect
RPD	(Relative Percent Difference) The difference between a set of duplicates or sample spike duplicates.
MS/MSD	(Matrix Spike or Matrix Spike Duplicate) A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analytes concentration is available. Matrix Spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.
Calibration Verification	(Initial, Continuing, or Final) A standard analyzed at different times to verify that the initial calibration curve is still valid.
Holding Time	The maximum time that samples may be held prior to analysis and still be considered valid or not compromised.
Internal Standard	A known amount of standard added to a test portion of a sample as a reference for evaluating and controlling the precision and bias of the applied analytical method.
Method Blank	A sample of a matrix similar to the batch associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples.
Surrogate	A substance with properties that mimic the analyte of interest. It is unlikely to be found in environmental samples and is added to them for quality control purposes in Organics.
EPL	Exceeds Permit Limit. This is a qualifier to denote that the result exceeds the permit limit of the sample location.
Exceeds Benchmark Concentration	Result Exceeds Benchmark concentration listed in the General Permit. Benchmark Concentrations are primarily used to determine the overall effectiveness of the Stormwater pollution prevention plan. Exceedence of Benchmark concentrations does NOT constitute a violation of this permit and does NOT indicate that violation of a water quality standard has occurred.
*	If present under the "Cert #" column, indicates that the laboratory does not have 2009 TNI accreditation in Virginia. These analytes should not be reported for Virginia Air, Water, or Waste Laws or the Safe Drinking Water Act to meet their requirements.
460036	If present under the "Cert #" Column, indicates that the laboratory holds accreditation under the 2009 TNI Standard in Virginia.
R	SM 5210B-2011 7.b. Test replicates show more than 30% difference between high and low values



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M2J0909

Project Description

Universal Labs

For:

Dan Thornton

Universal Laboratories, Inc.

20 Research Drive

Hampton, VA 23666

Project Manager

Alicia Walker

Thursday, October 20, 2022

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories Inc., - Marietta, OH. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M2J0909

Universal Laboratories, Inc.

Project Name: Universal Labs

Dan Thornton
20 Research Drive
Hampton, VA 23666

Project / PO Number. 101322-009
Received: 10/14/2022
Reported: 10/20/2022

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
2209181-001 E	M2J0909-01	Aqueous			10/12/22 09:40	10/14/22 10:15



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M2J0909

Analytical Testing Parameters

Client Sample ID:	2209181-001 E	Collection Date:	10/12/2022 9 40
Sample Matrix:	Aqueous		
Lab Sample ID:	M2J0909-01		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
SM 5310 C-2011								
Total Organic Carbon - TOC	3.42	1.00	mg/L	1		10/17/22 1556	10/18/22 2138	DIH

Definitions

mg/L: Milligrams per Liter
 RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.4°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH
 460187

Virginia Department of General Services

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<https://www.microbac.com/standard-terms-conditions>>.

Reviewed and Approved By:

Alicia Walker
 Project Manager
 Reported 10/20/2022 11 21

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com

Universal Laboratories

20 Research Drive

Hampton, VA 23666

1-800-695-2162

<http://www.universallaboratories.net>

Marine Base Quantico NREA

3250 Catlin Avenue

Quantico, VA, 22134

Contact: Dylan Lane, 703-432-0527, dylan.lane@usmc.mil

Client PO/Project Name _____

CHAIN OF CUSTODY

ID: 2209181

Form 2C Table A OF-035

Page 1 of 1


Sample Name	UL_Sample ID	Matrix	Sample Date/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-035 Grab	2209181-001	AQUEOUS	<i>10/12/22 08:00 9:40 CSO</i>	001A	1/HDPE	H2SO4/<6°C	Waste, BOD, COD, TOC, TSS, NH3 <i>100</i> <i>RP</i> <i>RD</i>
		AQUEOUS		001B	1/HDPE	<6°C	
		AQUEOUS		001C	2/HDPE	<6°C	
		AQUEOUS		001D	500/HDPE	H2SO4/<6°C	
		AQUEOUS		001E	150/HDPE	H2SO4/<6°C	

NOTES:

Phenol int check _____ CN int check _____ BOD int check _____ NH3 int check _____

CoolerTemp *1/20/20* C

TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by	<i>[Signature]</i>	<i>10/12/22 10:00</i>	Received by	<i>[Signature]</i>	<i>10/12/22 10:06</i>
Relinquished by			Received by	<i>[Signature]</i>	<i>10/12/22 13:06</i>
Relinquished by			Received by		
Relinquished by			Received by		

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Form Approved 03/05/19 OMB No. 2040-0004		
Form 2F NPDES		U.S Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY			
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))					
Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below			
	Outfall Number	Receiving Water Name	Latitude	Longitude	
		See enclosed Table 2F.1.1	° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))					
Improvements	2.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 3.			
	2.2	Briefly identify each applicable project in the table below.			
		Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge	Final Compliance Dates
					Required Projected
	2.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item) <input type="checkbox"/> Yes <input type="checkbox"/> No			

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico
---	----------------------------------	---

SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))

Site Drainage Map	3.1	Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No


SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))

Pollutant Sources	4.1	Provide information on the facility's pollutant sources in the table below.																					
		<table border="1"> <thead> <tr> <th>Outfall Number</th> <th>Impervious Surface Area (within a mile radius of the facility)</th> <th>Total Surface Area Drained (within a mile radius of the facility)</th> </tr> </thead> <tbody> <tr> <td></td> <td>See enclosed Table 2F.4.1</td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td></td> <td><i>specify units</i></td> </tr> </tbody> </table>	Outfall Number	Impervious Surface Area (within a mile radius of the facility)	Total Surface Area Drained (within a mile radius of the facility)		See enclosed Table 2F.4.1	<i>specify units</i>			<i>specify units</i>			<i>specify units</i>			<i>specify units</i>			<i>specify units</i>			<i>specify units</i>
	Outfall Number	Impervious Surface Area (within a mile radius of the facility)	Total Surface Area Drained (within a mile radius of the facility)																				
		See enclosed Table 2F.4.1	<i>specify units</i>																				
			<i>specify units</i>																				
			<i>specify units</i>																				
			<i>specify units</i>																				
			<i>specify units</i>																				
			<i>specify units</i>																				
	4.2	Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)																					
	See Attachment 2F.4.2																						
4.3	Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)																						
	<table border="1"> <thead> <tr> <th colspan="3">Stormwater Treatment</th> </tr> <tr> <th>Outfall Number</th> <th>Control Measures and Treatment</th> <th>Codes from Exhibit 2F-1 (list)</th> </tr> </thead> <tbody> <tr> <td></td> <td>See Attachment 2F.4.3</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Stormwater Treatment			Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F-1 (list)		See Attachment 2F.4.3														
Stormwater Treatment																							
Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F-1 (list)																					
	See Attachment 2F.4.3																						

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico
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Form Approved 03/05/19
OMB No. 2040-0004

SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))

Non-Stormwater Discharges	5.1	I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.			
		Name (print or type first and last name)	Official title		
		<i>WALTER CHRISTENSEN</i>	<i>ENVIRONMENTAL DIRECTOR</i>		
		Signature	Date signed		
			<i>20221215</i>		
	5.2	Provide the testing information requested in the table below.			
		Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test
			<i>N/A</i>		

SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))

Significant Leaks or Spills	6.1	Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years.
		<i>N/A</i>

SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))

Discharge Information	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	7.1	Is this a new source or new discharge? <input type="checkbox"/> Yes → See instructions regarding submission of <i>estimated</i> data. <input type="checkbox"/> No → See instructions regarding submission of <i>actual</i> data.
	Tables A, B, C, and D	
	7.2	Have you completed Table A for each outfall? <input type="checkbox"/> Yes <input type="checkbox"/> No

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Form Approved 03/05/19 OMB No. 2040-0004
Discharge Information Continued	7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.5.	
	7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.5	Do you know or have reason to believe any pollutants in Exhibit 2F-2 are present in the discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.7.	
	7.6	Have you listed all pollutants in Exhibit 2F-2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? <input type="checkbox"/> Yes → SKIP to Item 7.18. <input checked="" type="checkbox"/> No	
	7.8	Do you know or have reason to believe any pollutants in Exhibit 2F-3 are present in the discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.10.	
	7.9	Have you listed all pollutants in Exhibit 2F-3 that you know or have reason to believe are present in the discharge in Table C? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.10	Do you expect any of the pollutants in Exhibit 2F-3 to be discharged in concentrations of 10 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.12.	
	7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F-3 that you expect to be discharged in concentrations of 10 ppb or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.14.	
	7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.14	Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.15	Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.17.	
	7.16	Have you listed pollutants in Exhibit 2F-4 that you know or believe to be present in the discharge and provided an explanation in Table C? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.17	Have you provided information for the storm event(s) sampled in Table D? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Discharge Information Continued	Used or Manufactured Toxics		
	7.18	Is any pollutant listed on Exhibits 2F-2 through 2F-4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 8.	
	7.19	List the pollutants below, including TCDD if applicable.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))

Biological Toxicity Testing Data	8.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 9.		
	8.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
				<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	

SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))

Contract Analysis Information	9.1	Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 10.		
	9.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
		Name of laboratory/firm	Universal Laboratories	
		Laboratory address	20 Research Drive Hampton, VA 23666	
		Phone number	(800) 695-2162	
	Pollutant(s) analyzed	All except pH, Total Residual Chlorine, and Temperature		

EPA Identification Number
110070001339

NPDES Permit Number
VA0002151

Facility Name
Marine Corps Base Quantico

Form Approved 03/05/19
OMB No. 2040-0004

SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

10.1	In Column 1 below, mark the sections of Form 2F that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.	
	Column 1	Column 2
	<input checked="" type="checkbox"/> Section 1	<input checked="" type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)
	<input type="checkbox"/> Section 2	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 3	<input checked="" type="checkbox"/> w/ site drainage map
	<input checked="" type="checkbox"/> Section 4	<input checked="" type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 5	<input checked="" type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 6	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 7	<input checked="" type="checkbox"/> Table A <input type="checkbox"/> w/ small business exemption request <input checked="" type="checkbox"/> Table B <input type="checkbox"/> w/ analytical results as an attachment <input checked="" type="checkbox"/> Table C <input type="checkbox"/> Table D
	<input type="checkbox"/> Section 8	<input type="checkbox"/> w/attachments
	<input checked="" type="checkbox"/> Section 9	<input type="checkbox"/> w/attachments (e.g., responses for additional contact laboratories or firms)
<input checked="" type="checkbox"/> Section 10	<input type="checkbox"/>	

10.2 **Certification Statement**
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.

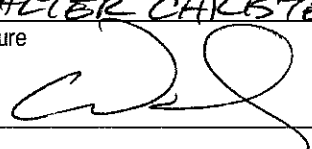
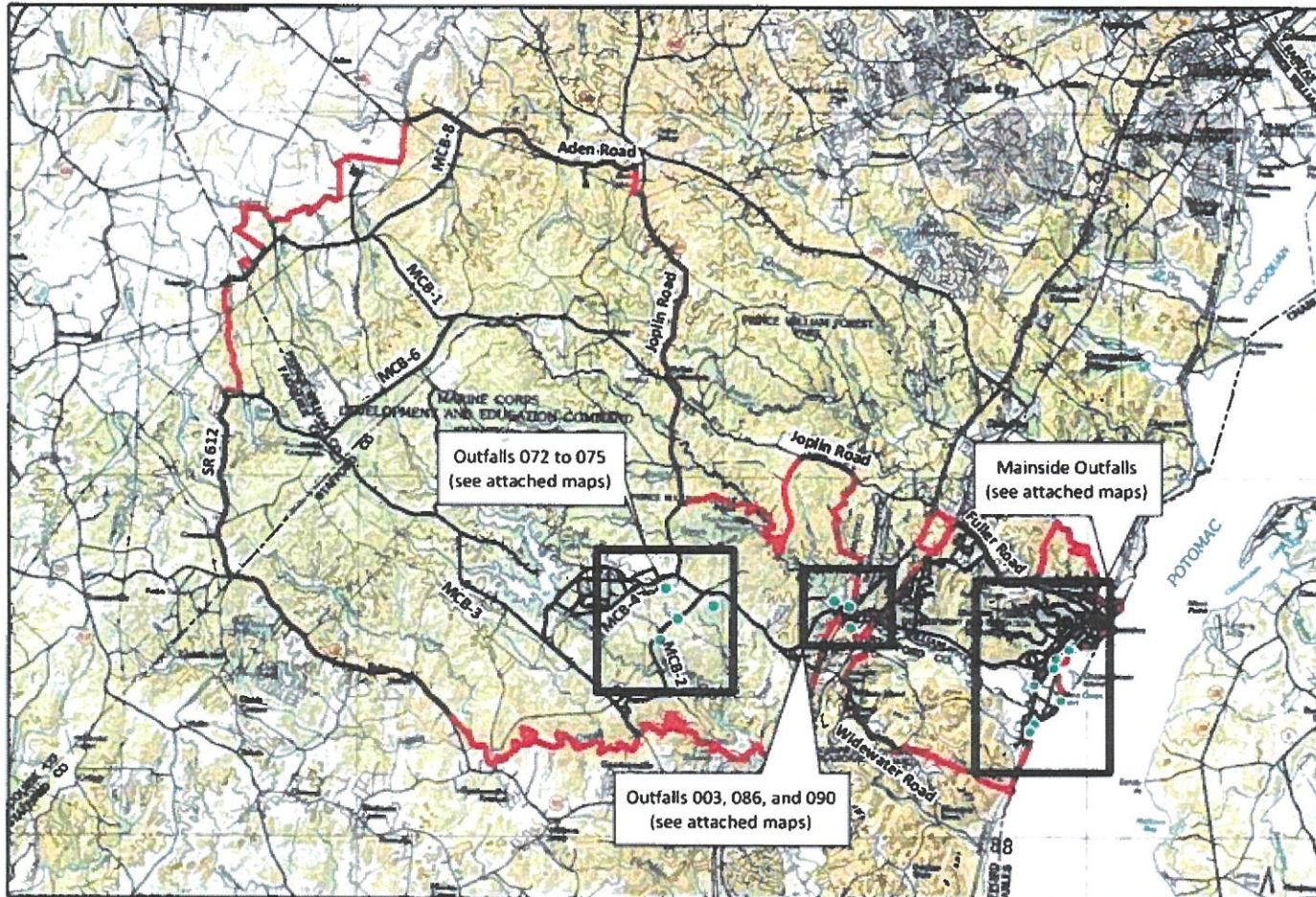
Name (print or type first and last name) WALTER CHRISTENSEN	Official title ENVIRONMENTAL DIRECTOR
Signature 	Date signed 20221215

Table 2F-1.1
MCB Quantico VPDES Permit Renewal
VPDES Permit No. VA0002151

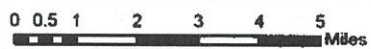
A. Outfall Number (List)	B. Latitude			C. Longitude			D. Receiving Water (Name)
	1. Deg.	2. Min.	3. Sec.	1. Deg.	2. Min.	3. Sec.	
007	38	30	54	-77	17	55	Unnamed tributary to Potomac River
010	38	30	54	-77	17	46	Unnamed tributary to Potomac River
014	38	30	36	-77	18	11	Unnamed tributary to Potomac River
016	38	30	47	-77	18	11	Unnamed tributary to Potomac River
072	38	31	26	-77	24	40	Unnamed tributary to Beaverdam Creek
073	38	31	16	-77	25	26	Unnamed tributary to Beaverdam Creek
074	38	31	23	-77	25	19	Unnamed tributary to Beaverdam Creek
086	38	31	31	-77	22	23	Unnamed tributary to Chopawamsic Creek
090	38	31	30	-77	22	6	Unnamed tributary to Chopawamsic Creek
091	38	30	13	-77	18	3	Unnamed tributary to Potomac River



Source: USGS Topographic Maps.
 USGS Quads: 7.5 minute series
 Independent Hill
 Joplin
 Stafford
 Quantico
 Somerville
 Nokesville
 Widewater

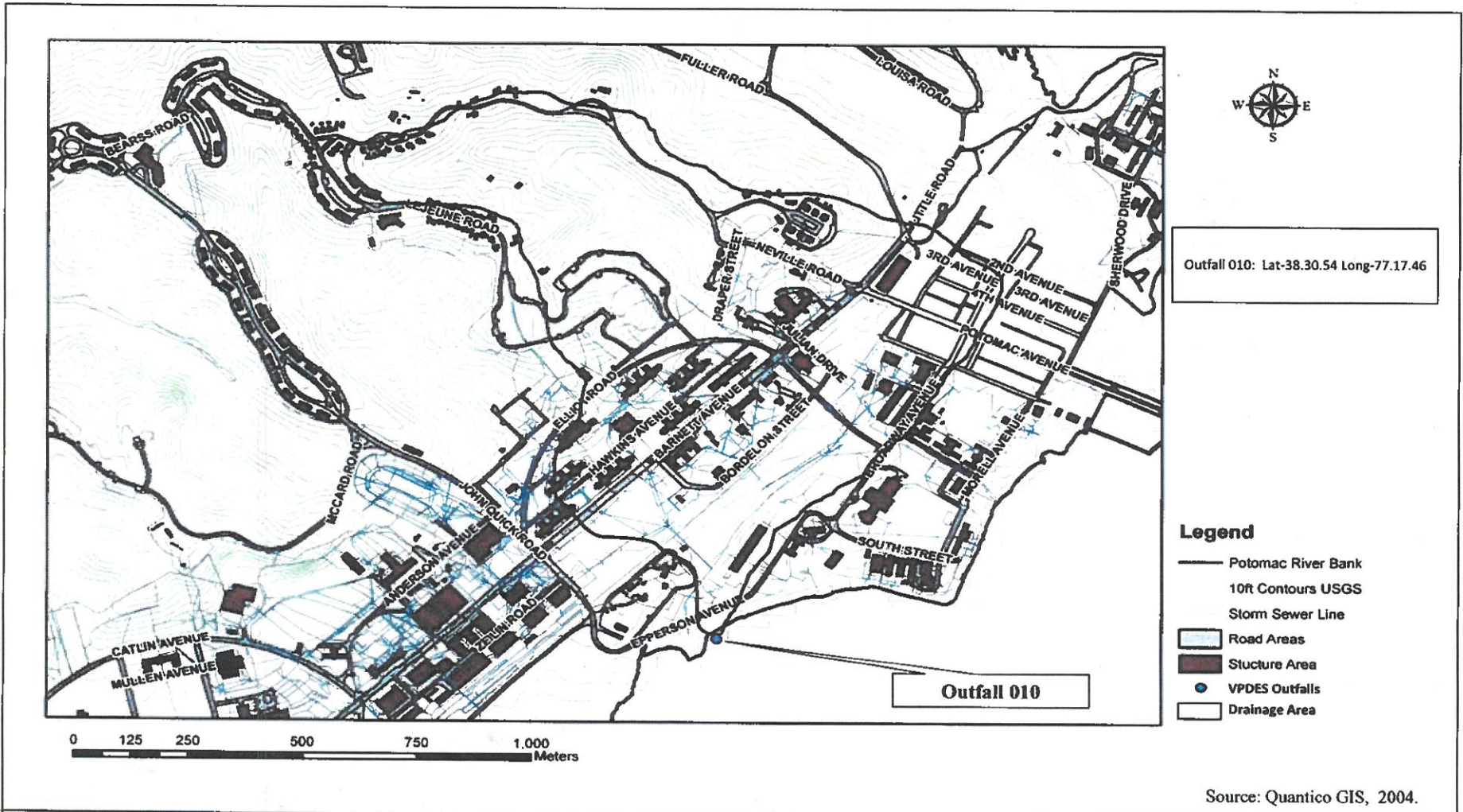
Legend

- Permitted Outfalls
- Road Centerlines
- Installation Area



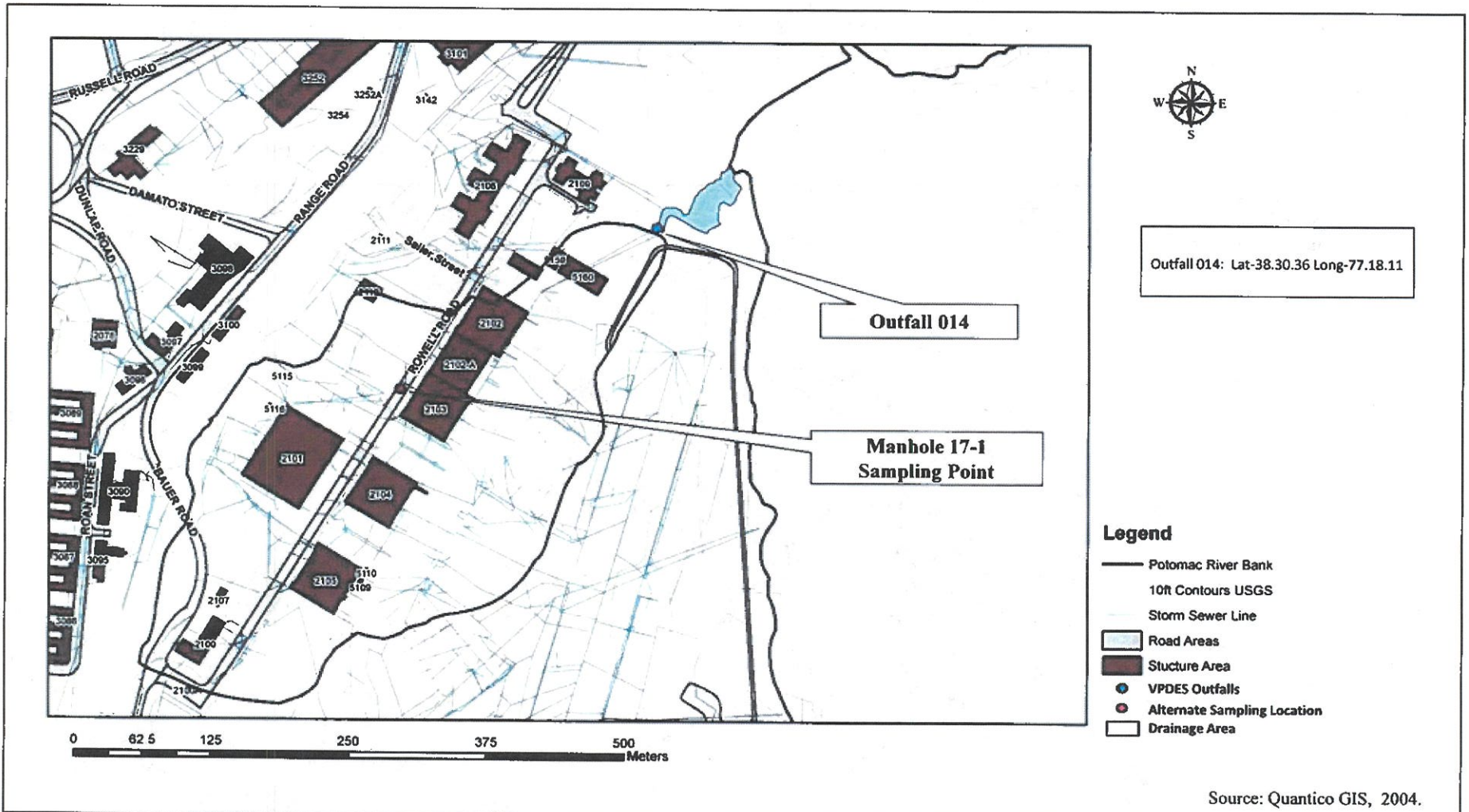
OUTFALL LOCATION MAP
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure 2F.3.1.1



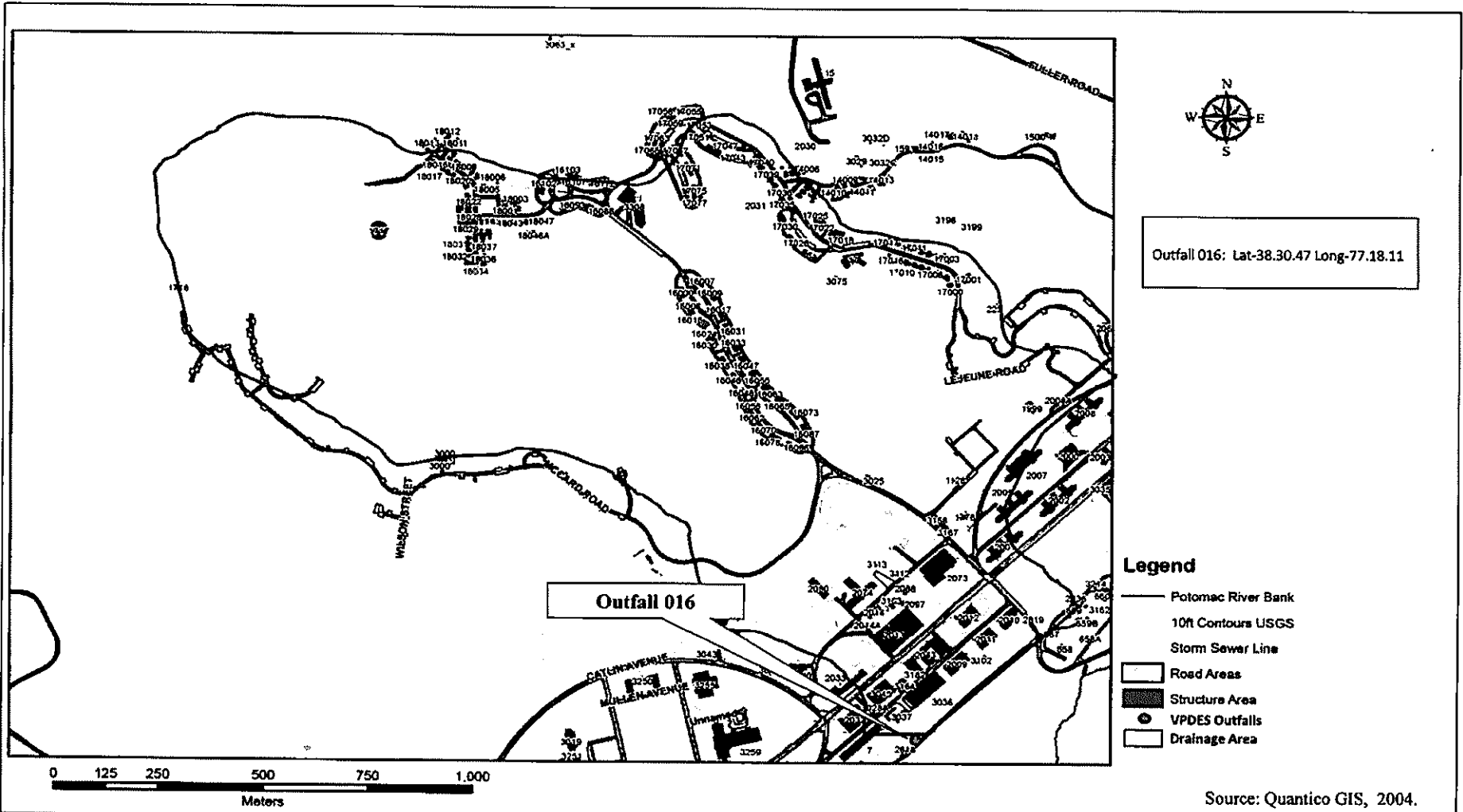
VPDES OUTFALL 010 AND DRAINAGE BASIN
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure 2F.3.1.2



VPDES OUTFALL 014 AND DRAINAGE BASIN
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure 2F.3.1.3



Outfall 016: Lat-38.30.47 Long-77.18.11

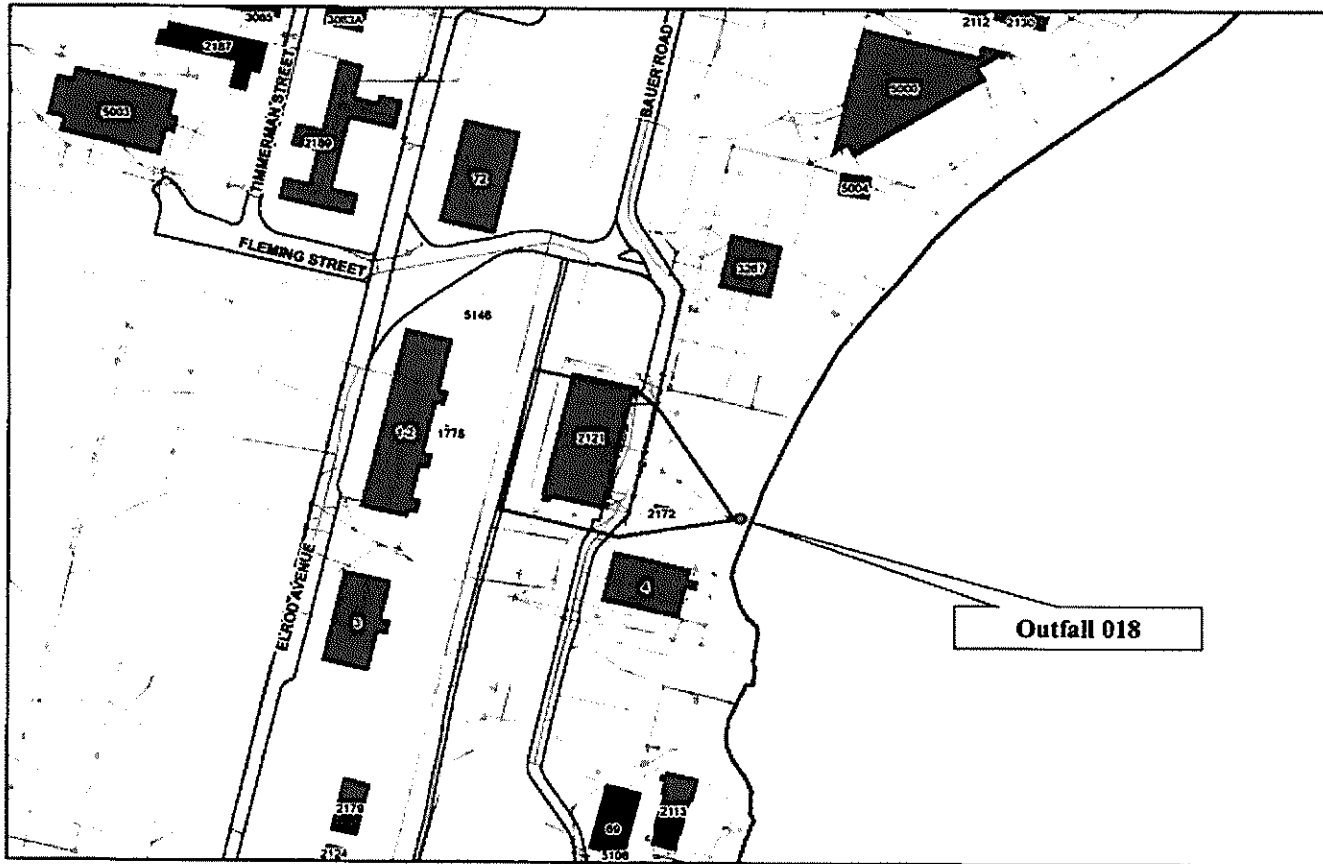
- Legend**
- Potomac River Bank
 - 10ft Contours USGS
 - Storm Sewer Line
 - ▭ Road Areas
 - ▨ Structure Area
 - VPDES Outfalls
 - ▭ Drainage Area

Source: Quantico GIS, 2004.



VPDES OUTFALL 016 AND DRAINAGE BASIN
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure 2F.3.1.4



Outfall 018: Lat-38.29.39 Long-77.18.39

Legend

- Potomac River Bank
- 10ft Contours USGS
- - - Storm Sewer Line
- ▭ Road Areas
- Structure Area
- VPDES Outfalls
- Drainage Area

0 12.525 50 75 100 Meters

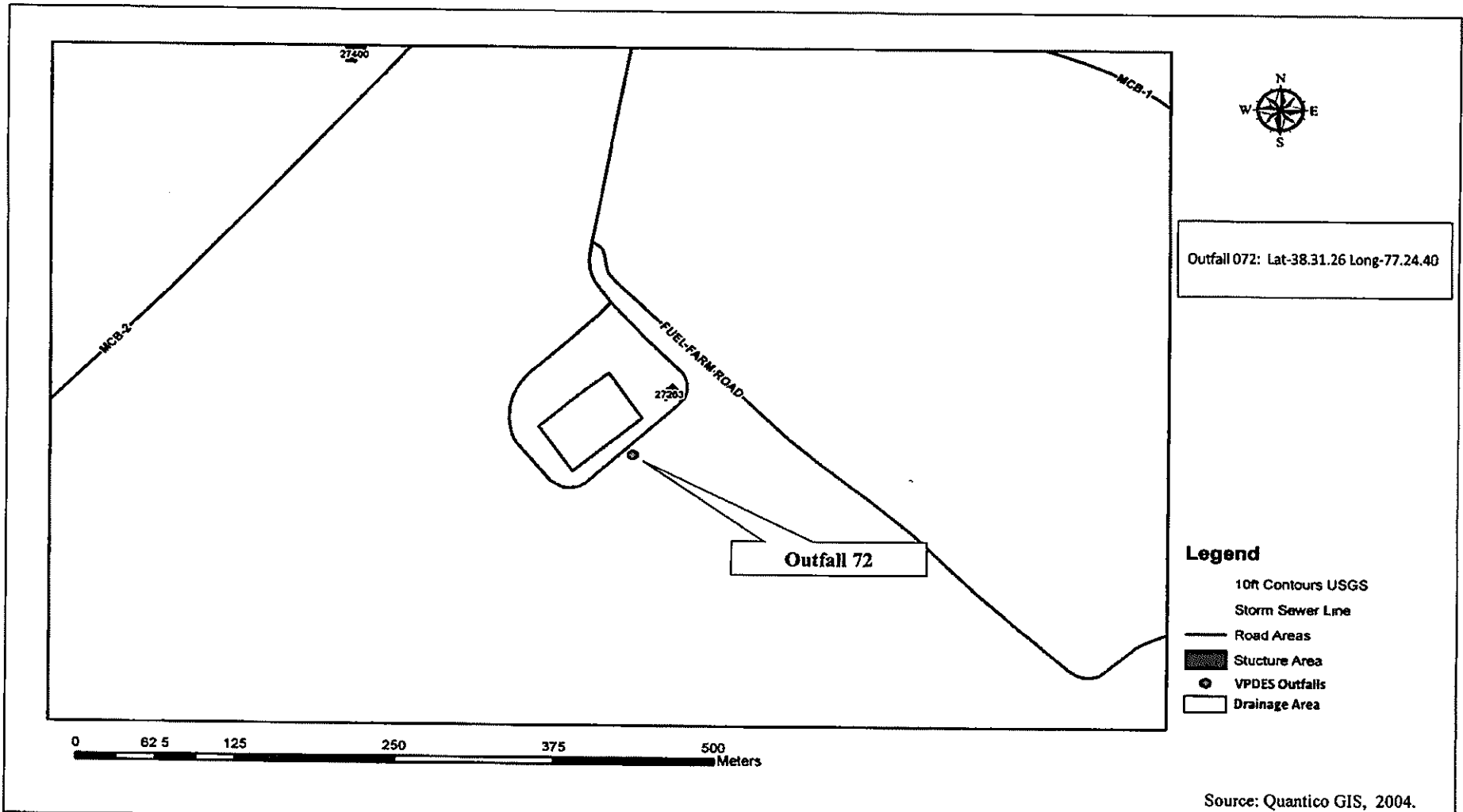
Source: Quantico GIS, 2004.



VPDES OUTFALL 018 AND DRAINAGE BASIN

VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

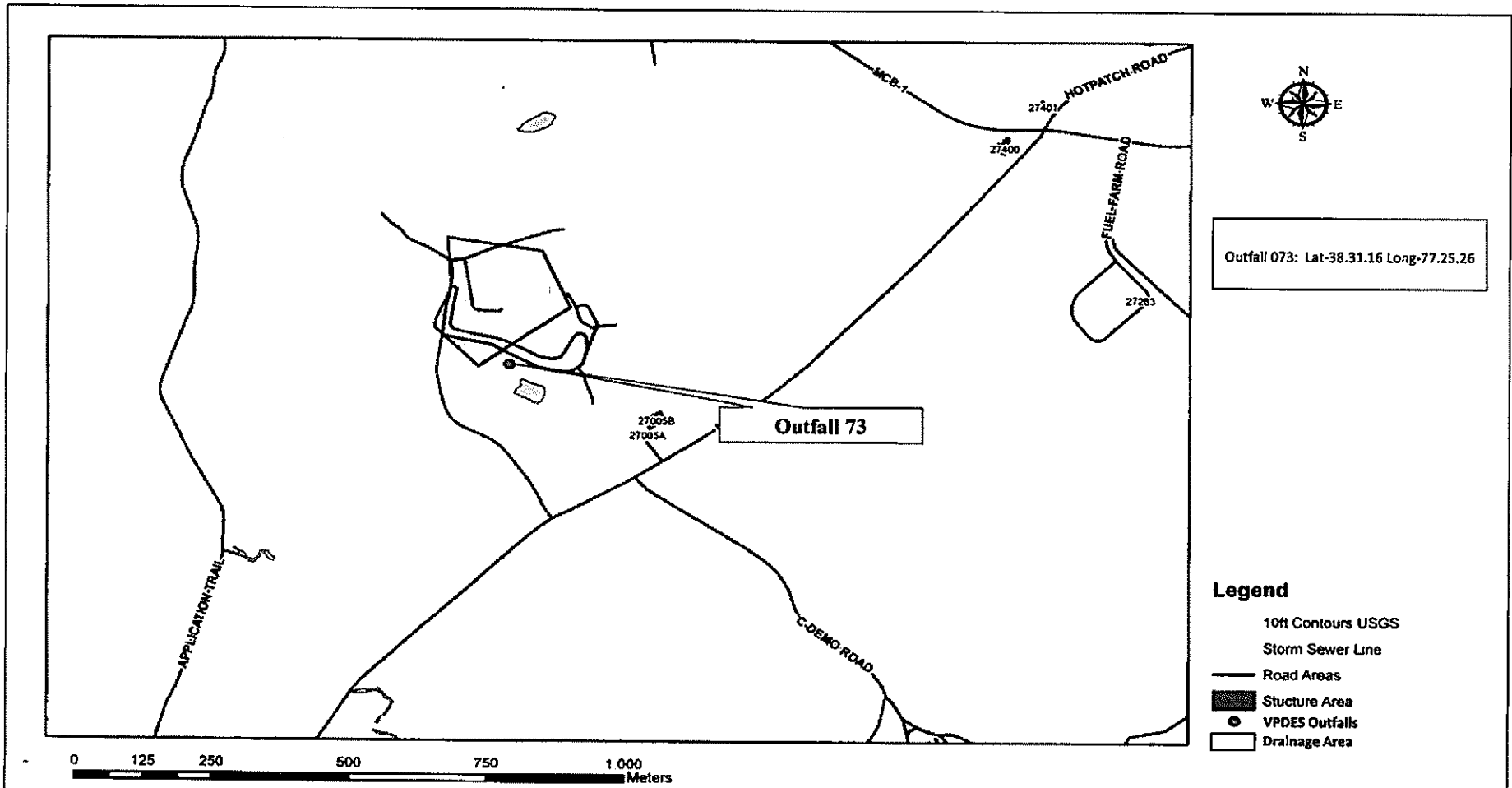
Figure 2F.3.1.5



VPDES OUTFALL 072 AND DRAINAGE BASIN

VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure 2F.3.1.6

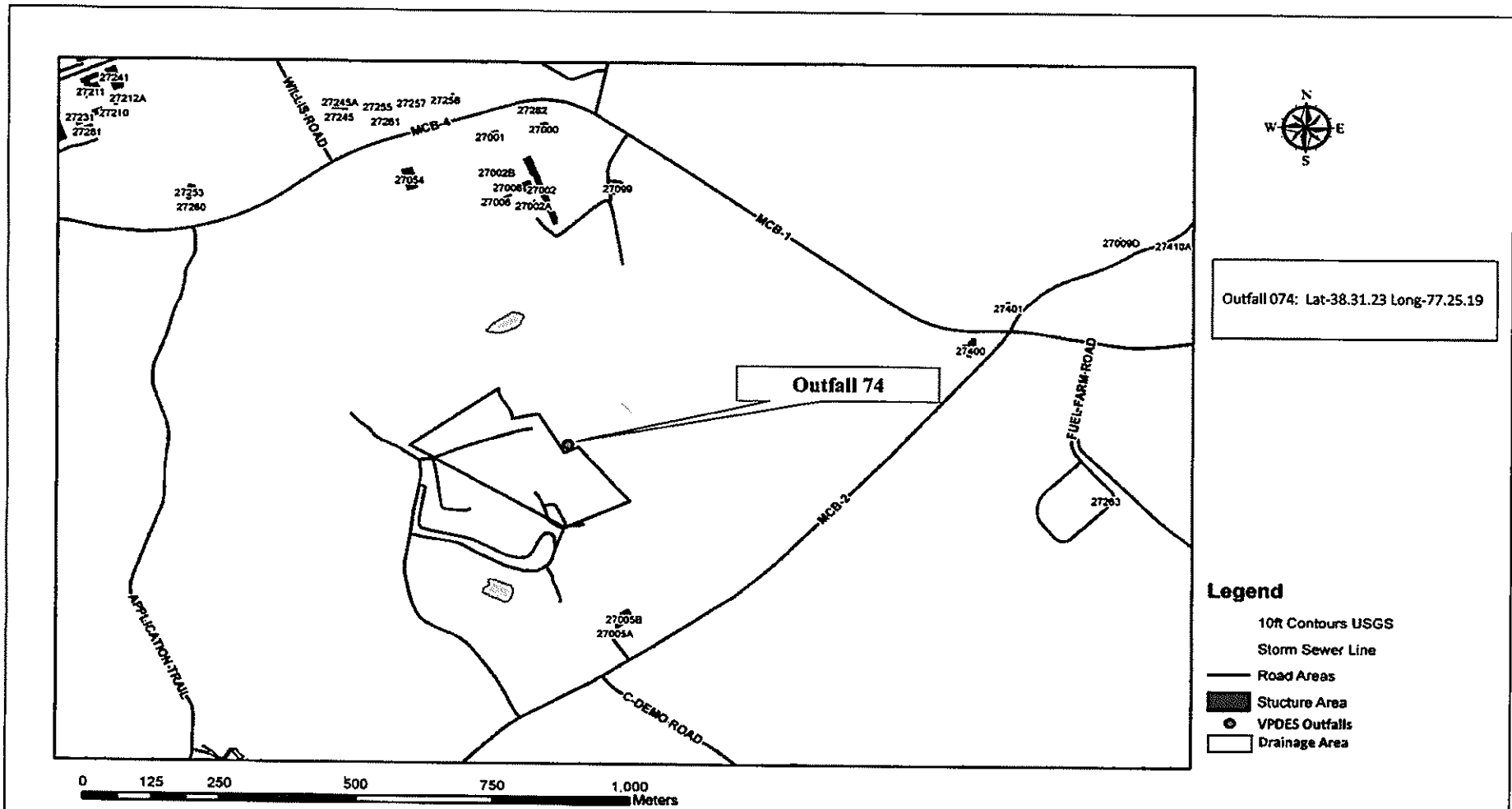


Source: Quantico GIS, 2004.



VPDES OUTFALL 073 AND DRAINAGE BASIN
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure 2F.3.1.7

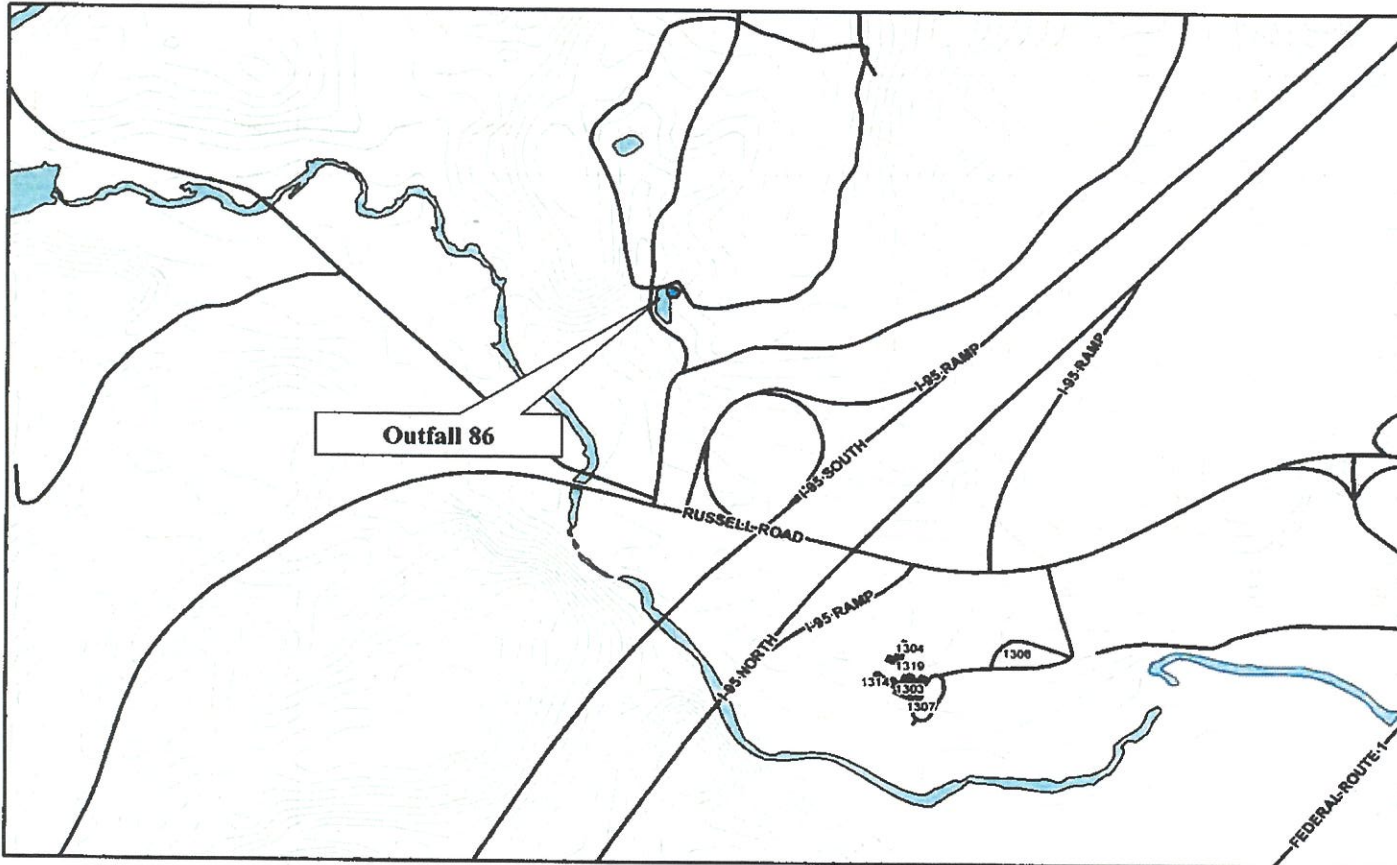


Source: Quantico GIS, 2004.



VPDES OUTFALL 074 AND DRAINAGE BASIN
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

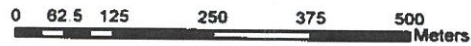
Figure 2F.3.1.8



Outfall 086: Lat-38.31.31 Long-77.22.23

Legend

- 10ft Contours USGS
- Road Areas
- Storm Sewer Line
- Structure Area
- VPDES Outfalls
- Drainage Area



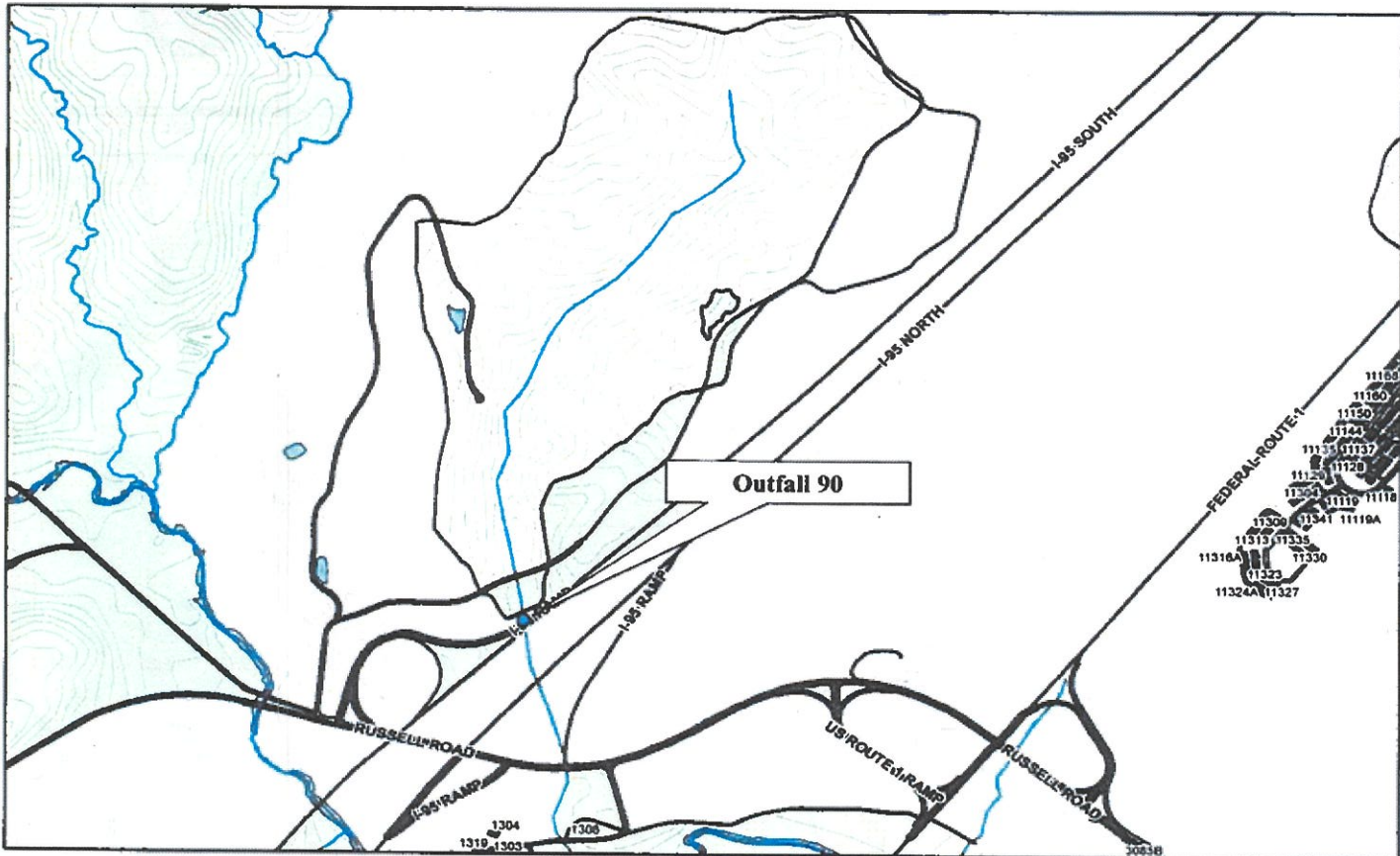
Source: Quantico GIS, 2004.



VPDES OUTFALL 086 AND DRAINAGE BASIN

VPDES Permit Renewal 2022
Marine Corp Base Quantico, Virginia

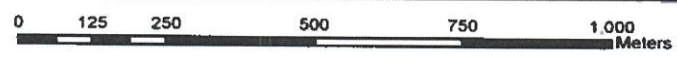
Figure 2F.3.1.9



Outfall 090: Lat-38.31.30 Long-77.22.06

Legend

- 10ft Contours USGS
- Road Areas
- Storm Sewer Line
- Structure Area
- VPDES Outfalls
- Drainage Area

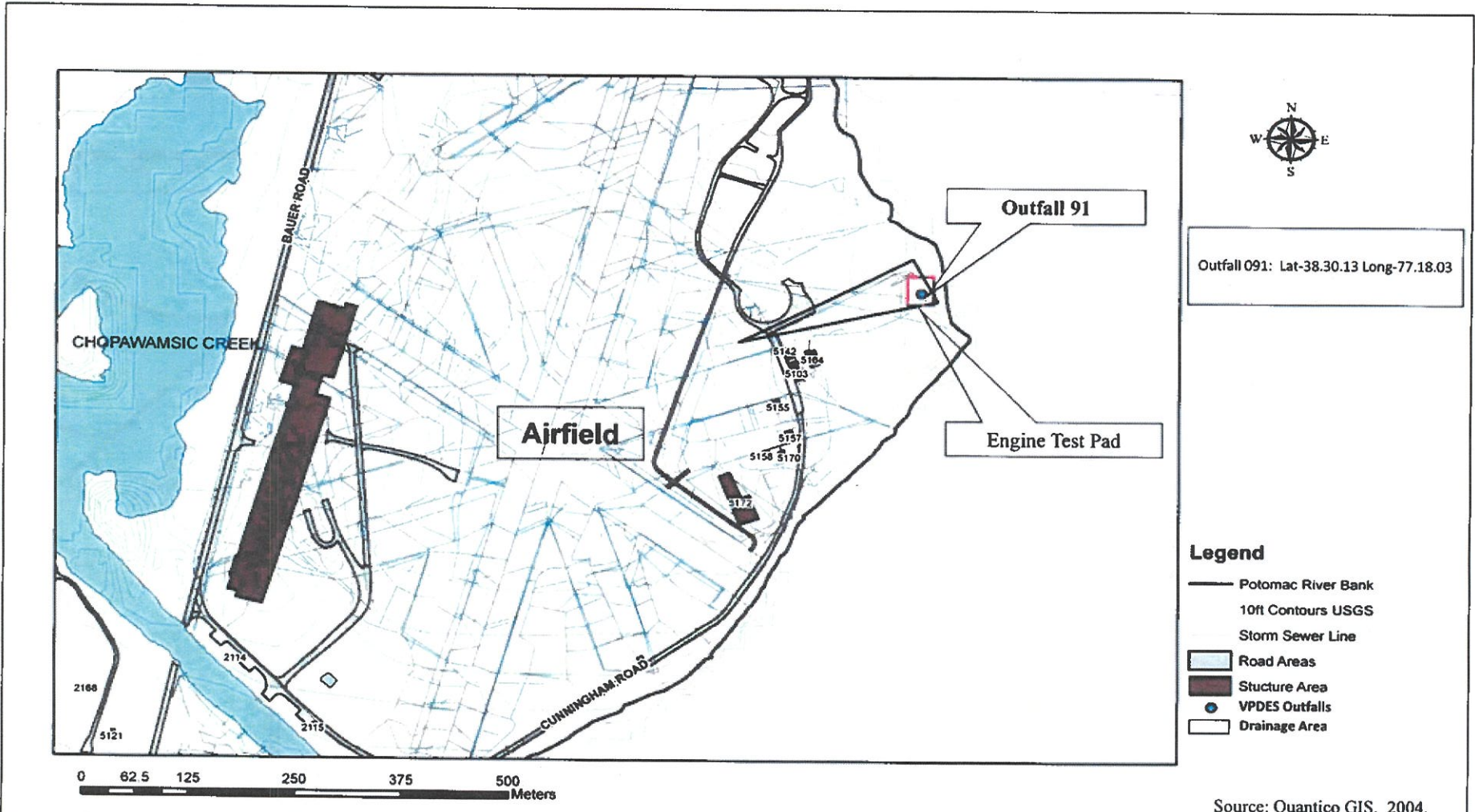


Source: Quantico GIS, 2004.



VPDES OUTFALL 090 AND DRAINAGE BASIN
 VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure 2F.3.1.10



VPDES OUTFALL 091 AND DRAINAGE BASIN

VPDES Permit Renewal 2022
 Marine Corp Base Quantico, Virginia

Figure 2F.3.1.11

Table 2F.4.1
MCB Quantico VPDES Permit Renewal
VPDES Permit No. VA0002151

Outfall No.	Area of Impervious Surface (Acres)	Total Area Drained (Acres)
007	0.2	0.24
010	70.5	220
014	24.5	27.5
016	132	440
072	0.5	2.5
073	0	16.5
074	0	16.5
086	0	40
090	0	80
091	0.27	0.27

Note: Outfalls No. 010 and 014 have no monitoring within the permit due to removal of industrial activities.

Attachment 2F.4.2 -- Pollutant Sources

Form 2F, Item 4.2. Narrative Description of Pollutant Sources

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored, or disposed...

Outfall 007 – Mainside Sewage Treatment Plant (STP)

Industrial storm water pollutant source activities performed in this area include indoor storage as well as loading and unloading of Hazardous Materials. Storages of water treatment chemicals (Sodium Hydroxide, Alum, Polymer, Soda Ash), greases, fuels (including diesel fuels), and oils are contained within buildings. Most of the storages are above ground storage tanks that are confined in concrete berms and/or dikes. Diesel fuels storage tanks have double walls construction and are self-confined. Drainage from the south end of the facility in the vicinity of the STP Admin Building is conveyed directly to this outfall.

Outfall 010 – Mainside Drainage – North

Possible spot application of pesticides and herbicides in this area. No treatment, storage or disposal of significant materials.

Outfall 016 – Mainside Drainage – South

Motor pool parking area (via oil/water separator). Fuel oil storage tanks inside secondary containment (via oil/water separator).

Outfall 072 – Fuel Farm

Various POL products, including diesel fuel and aviation fuel, are stored in aboveground storage tanks. All tanks are inside secondary containment areas, and the secondary containment areas drain through an oil/water separator.

Outfall 073 – Landfill Pond

Closed landfill.

Outfall 074 – Landfill Marsh

Closed landfill.

Outfall 086 – Landfill Creek

Closed landfill.

Outfall 090 – Landfill Creek

Closed landfill.

Outfall 091 – Engine Test Pad

Various POL products, including diesel fuel and aviation fuel, are stored in aboveground storage tanks. All tanks are inside secondary containment areas.

Attachment 2F.5.2 - Testing for Nonstormwater Discharges

Form 2F, Item 5.2 Nonstormwater Discharges

Visual inspection, dye testing, and smoke testing have been used to identify non stormwater discharges to the outfalls in this Form 2F many times over the past twelve years. This section describes several large-scale inspections in chronological order. This section does not list dye testing that has been conducted at Outfalls 073, 074, 075, 086 and 090 because these outfalls carry overland flow only, or at Outfalls 072 and 091 because all stormwater sources are known.

In 2010 and 2012, illicit discharge surveys were completed to identify any dry-weather discharges.

In 2014-2015, an investigation was initiated and completed to identify the cause on an illicit discharge that was affecting OF-035. The cause was determined to be water tank sanitizing practices that were the cause on an illicit discharge that was affecting OF-035.

In 2018, and continuing every year after, an illicit discharge survey is completed on at least 60 of the base's over 240 outfalls. The 60 outfalls are rotated to ensure all outfalls are covered and surveyed at least once every 5 years.

Attachment 2F.4.3 – Pollutant Sources
 Form 2F, Item 4.3 Narrative Description of Pollutant Sources

Outfall Number	Control Measures and Treatment	Codes (see 2F-1)
007	Hazardous material storages are contained within building or using conex containers and flammable lockers. Diesel fuel above ground storage tanks were built using double walls and are self-confined. All other above ground storage tanks are confined in concrete berms and/or dikes.	
010	None.	
016	One oil/water separator treats stormwater discharges from the motor pool, and a second treats stormwater from the central heating plant, oil storage tank containment area, and the former coal storage yard. The discharge valve from each secondary containment area is normally closed. Accumulated precipitation is not released until it has been visually inspected for signs of contamination. The oil/water separator units receive periodic inspections and cleaning as outlined by the <i>Operations and Maintenance Manual for Process Wastewater Outfalls, Marine Corps Base Quantico</i> .	1-H, 1-U (Oil/Water separator treats part of flow)
072	A valve (normally closed) controls the discharge from each secondary containment area. Accumulated precipitation in the containment area is not released until it has been visually inspected for signs of contamination. An oil/water separator treats drainage and runoff from the tank farm, the vehicle loading/unloading area, and the aboveground storage tanks. This unit receives periodic inspections and cleaning as outlined by the <i>Operations and Maintenance Manual for Process Wastewater Outfalls, Marine Corps Base Quantico</i> .	1-H, 1-U (Oil/Water separator)
073	Stormwater runoff from the landfill enters a detention pond prior to discharge through the outfall.	1-U
074	Stormwater runoff from the landfill enters a detention pond prior to discharge through the outfall.	1-U
086	None.	
090	None.	
091	A concrete detention basin contains any spills in the engine test area. The discharge valve from the detention basin is normally closed. Accumulated precipitation in the detention basin is not released to a collection pond until it has been visually inspected for contamination.	

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 016
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))¹

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	ND				1	
2. Biochemical oxygen demand (BOD ₅)	3 mg/l				1	
3. Chemical oxygen demand (COD)	24.4 mg/l				1	
4. Total suspended solids (TSS)	15.2 mg/l				1	
5. Total phosphorus	0.16 mg/l				1	
6. Total Kjeldahl nitrogen (TKN)	0.9 mg/l				1	
7. Total nitrogen (as N)	1.38 mg/l				1	
8. pH (minimum)	6.08				1	
	pH (maximum)	6.08			1	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 072
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))¹

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	ND				1	
2. Biochemical oxygen demand (BOD ₅)	2 mg/l				1	
3. Chemical oxygen demand (COD)	ND				1	
4. Total suspended solids (TSS)	92.4 mg/l				1	
5. Total phosphorus	0.05 mg/l				1	
6. Total Kjeldahl nitrogen (TKN)	0.5 mg/l				1	
7. Total nitrogen (as N)	0.88 mg/l				1	
8. pH (minimum)	6.39				1	
	pH (maximum)	6.39			1	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 073
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))¹

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant or Parameter		Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND				1	
2.	Biochemical oxygen demand (BOD ₅)	5 mg/l				1	
3.	Chemical oxygen demand (COD)	40.7 mg/l				1	
4.	Total suspended solids (TSS)	21.5mg/l				1	
5.	Total phosphorus	0.13 mg/l				1	
6.	Total Kjeldahl nitrogen (TKN)	1.0 mg/l				1	
7.	Total nitrogen (as N)	1.33 mg/l				1	
8.	pH (minimum)	7.22				1	
	pH (maximum)	7.22				1	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 074
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))¹

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	ND				1	
2. Biochemical oxygen demand (BOD ₅)	9 mg/l				1	
3. Chemical oxygen demand (COD)	68.3 mg/l				1	
4. Total suspended solids (TSS)	19 mg/l				1	
5. Total phosphorus	0.05 mg/l				1	
6. Total Kjeldahl nitrogen (TKN)	1.0 mg/l				1	
7. Total nitrogen (as N)	1.04 mg/l				1	
8. pH (minimum)	7.36				1	
	pH (maximum)	7.36			1	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 086
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))¹

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	No discharge					
2. Biochemical oxygen demand (BOD ₅)	No discharge					
3. Chemical oxygen demand (COD)	No discharge					
4. Total suspended solids (TSS)	No discharge					
5. Total phosphorus	No discharge					
6. Total Kjeldahl nitrogen (TKN)	No discharge					
7. Total nitrogen (as N)	No discharge					
8. pH (minimum)	No discharge					
	No discharge					

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number 110070001339	NPDES Permit Number VA0002151	Facility Name Marine Corps Base Quantico	Outfall Number 090
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))¹

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	ND				1	
2. Biochemical oxygen demand (BOD ₅)	<2 mg/l				1	
3. Chemical oxygen demand (COD)	ND				1	
4. Total suspended solids (TSS)	7.7 mg/l				1	
5. Total phosphorus	0.03 mg/l				1	
6. Total Kjeldahl nitrogen (TKN)	0.3 mg/l				1	
7. Total nitrogen (as N)	0.26 mg/l				1	
8. pH (minimum)	7.07				1	
	pH (maximum)	7.07			1	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).





Universal Laboratories
20 Research Drive
Hampton, VA 23666
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Fax: 757-865-8014

Client Report For: Marine Base Quantico NREA
Attention: Dylan Lane
Client Address: 3250 Catlin Avenue
NREA (B046)
Quantico, VA 22134
Project: Form 2F Table A OF-016
Order Number: 2209169
Report Date: 10/21/2022
Lab Receipt Date: 10/12/2022
Comment:

This report contains the analytical results for the indicated Project and Order. The results contained in this report relate only to the samples identified in this Order. The analytical results meet all requirements of the 2009 TNI Standard, unless specifically stated or laboratory does not hold accreditation as seen in the Cert # column. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by: Carol K Zero Signature

Carol K Zero Name

President Director Title

Universal Laboratories

Client: Marine Base Quantico NREA

Lab ID: 2209169-001

Permit ID

Client Sample ID: OF-016 Grab

Collection Date: 10/12/2022 09:50

Matrix: AQUEOUS

Analyses

Oil and Grease

EPA 1664A

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	2	pH Units		10/19/2022 10:08	EK		
Holding Time Met	Yes	Yes/No		10/19/2022 10:08	EK		
Sample Receipt Temperature	1	C		10/19/2022 10:08	EK		
Oil and Grease	ND	mg/L	5	10/19/2022 10:08	EK		460036

Biochemical Oxygen Demand (BOD) 5 Day

SM 5210 B (2011)

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		10/12/2022 13:55	BS		
Sample Receipt Temperature	1	C		10/12/2022 13:55	BS		
Biochemical Oxygen Demand	3	mg/L	2	10/12/2022 13:55	BS		460036

Chemical Oxygen Demand

HACH 8000

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		10/18/2022 09:54	LP		
Holding Time Met	Yes	Yes/No		10/18/2022 09:54	LP		
Sample Receipt Temperature	1	C		10/18/2022 09:54	LP		
Chemical Oxygen Demand	24.4	mg/L	20	10/18/2022 09:54	LP		460036

Solids, Total Suspended

SM 2540D (2011)

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		10/13/2022 17:37	BS		
Sample Receipt Temperature	1	C		10/13/2022 17:37	BS		
Solids, Total Suspended	15.2	mg/L	1	10/13/2022 17:37	BS		460036

Phosphorus, Total

EPA 365.1

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		10/14/2022 16:26	LP		
Holding Time Met	Yes	Yes/No		10/14/2022 16:26	LP		
Sample Receipt Temperature	1	C		10/14/2022 16:26	LP		
Phosphorus, Total	0.16	mg/L	0.02	10/14/2022 16:26	LP		460036

Nitrogen, Total Kjeldahl

EPA 351.2

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		10/13/2022 17:23	MKL		
Holding Time Met	Yes	Yes/No		10/13/2022 17:23	MKL		
Sample Receipt Temperature	1	C		10/13/2022 17:23	MKL		
Nitrogen, Total Kjeldahl	0.9	mg/L	0.2	10/13/2022 17:23	MKL		460036

Universal Laboratories

Client: Marine Base Quantico NREA

Lab ID: 2209169-001

Permit ID

Client Sample ID: OF-016 Grab

Collection Date: 10/12/2022 09:50

Matrix: AQUEOUS

Analyses

Nitrogen, Total

EPA 351.2/ EPA 353.2

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		10/14/2022 14:31	LP		
Holding Time Met	Yes	Yes/No		10/14/2022 14:31	LP		
Sample Receipt Temperature	1	C		10/14/2022 14:31	LP		
Nitrate/Nitrite as N	0.44	mg/L	0.1	10/14/2022 14:31	LP		460036
Nitrogen, Total Kjeldahl	0.94	mg/L	0.2	10/14/2022 14:31	LP		460036
Nitrogen, Total	1.38	mg/L	0.2	10/14/2022 14:31	LP		*

Glossary of Terms and Abbreviations

ND	No analyte detected at or above the RL (Reporting Limit) listed
NR	No Results available, analyte not in instrument calibration
RL	(Reporting Limit) The minimum levels, concentrations, or quantities of a target analyte that can be reported within a specified degree of confidence. Generally, this number is equal to or just above the lowest calibration standard run with the analytical batch.
B	Analyte was found in the method blank
D	RPD outside acceptable limits
H	Holding time exceeded
IS	Internal standard outside acceptable limits
J	Result above calibration curve - results are approximate
L	LCS Outside acceptable limits
MI	Matrix interference
MS	Matrix spike recovery outside acceptable limits
QC	Method QC criteria not met
S	Surrogate outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
LCS	(Laboratory Control Sample) A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	Method Detection Limit is an estimate of the minimum amount of a substance that an analytical process can reliably detect
RPD	(Relative Percent Difference) The difference between a set of duplicates or sample spike duplicates.
MS/MSD	(Matrix Spike or Matrix Spike Duplicate) A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analytes concentration is available. Matrix Spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.
Calibration Verification	(Initial, Continuing, or Final) A standard analyzed at different times to verify that the initial calibration curve is still valid.
Holding Time	The maximum time that samples may be held prior to analysis and still be considered valid or not compromised.
Internal Standard	A known amount of standard added to a test portion of a sample as a reference for evaluating and controlling the precision and bias of the applied analytical method.
Method Blank	A sample of a matrix similar to the batch associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples.
Surrogate	A substance with properties that mimic the analyte of interest. It is unlikely to be found in environmental samples and is added to them for quality control purposes in Organics.
EPL	Exceeds Permit Limit. This is a qualifier to denote that the result exceeds the permit limit of the sample location.
Exceeds Benchmark Concentration	Result Exceeds Benchmark concentration listed in the General Permit. Benchmark Concentrations are primarily used to determine the overall effectiveness of the Stormwater pollution prevention plan. Exceedence of Benchmark concentrations does NOT constitute a violation of this permit and does NOT indicate that violation of a water quality standard has occurred.
*	If present under the "Cert #" column, indicates that the laboratory does not have 2009 TNI accreditation in Virginia. These analytes should not be reported for Virginia Air, Water, or Waste Laws or the Safe Drinking Water Act to meet their requirements.
460036	If present under the "Cert #" Column, indicates that the laboratory holds accreditation under the 2009 TNI Standard in Virginia.
R	SM 5210B-2011 7.b. Test replicates show more than 30% difference between high and low values

Universal Laboratories

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Hampton, VA 23666

1-800-695-2162

<http://www.universallaboratories.net>

Marine Base Quantico NREA

3250 Catlin Avenue

Quantico, VA, 22134

Contact: Dylan Lane, 703-432-0527, dylan.lane@usmc.mil

Client PO/Project Name _____

CHAIN OF CUSTODY

ID: 2209169

Form 2F Table A OF-016

Page 1 of 1

Sample Name	UL_Sample ID	Matrix	Sample Date/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-016 Grab	2209169-001	AQUEOUS	<i>10/12/22</i> <i>0150</i>	001A	1/Glass	H2SO4/<6°C	Waste, OGT, BOD, COD, TSS, PHOS, TKN, TN
		AQUEOUS		001B	1/Glass	H2SO4/<6°C	
		AQUEOUS		001C	1/Glass	H2SO4/<6°C	
		AQUEOUS		001D	1/HDPE	H2SO4/<6°C	
		AQUEOUS		001E	2/HDPE	<6°C	
		AQUEOUS		001F	1/HDPE	<6°C	

NOTES: Phenol int check _____ CN int check _____ BOD int check _____ NH3 int check _____ Cooler Temp 1/NA °C

TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by		10/12/22 10:06	Received by		10/12/22 10:06 <i>RD</i>
Relinquished by			Received by		10/12/22 13:06 <i>RD</i>
Relinquished by			Received by		
Relinquished by			Received by		



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Hampton, VA 23666
Phone: 1-800-695-2162
Fax: 757-865-8014

Client Report For: Marine Base Quantico NREA
Attention: Dylan Lane
Client Address: 3250 Catlin Avenue
NREA (B046)
Quantico, VA 22134
Project: Form 2C Table A OF-035
Order Number: 2209181
Report Date: 10/20/2022
Lab Receipt Date: 10/12/2022
Comment:

This report contains the analytical results for the indicated Project and Order. The results contained in this report relate only to the samples identified in this Order. The analytical results meet all requirements of the 2009 TNI Standard, unless specifically stated or laboratory does not hold accreditation as seen in the Cert # column. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by: Carol K Zero Signature
Carol K Zero Name
President Director Title

Universal Laboratories

Client: Marine Base Quantico NREA

Client Sample ID: OF-035 Grab

Lab ID: 2209181-001

Collection Date: 10/12/2022 09:40

Permit ID

Matrix: AQUEOUS

Analyses

Biochemical Oxygen Demand (BOD) 5 Day

SM 5210 B (2011)

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		10/13/2022 10:53	BS		
Sample Receipt Temperature	1	C		10/13/2022 10:53	BS		
Biochemical Oxygen Demand	5	mg/L	2	10/13/2022 10:53	BS		460036

Chemical Oxygen Demand

HACH 8000

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		10/18/2022 09:54	LP		
Holding Time Met	Yes	Yes/No		10/18/2022 09:54	LP		
Sample Receipt Temperature	1	C		10/18/2022 09:54	LP		
Chemical Oxygen Demand	ND	mg/L	20	10/18/2022 09:54	LP		460036

Solids, Total Suspended

SM 2540D (2011)

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		10/13/2022 17:37	BS		
Sample Receipt Temperature	1	C		10/13/2022 17:37	BS		
Solids, Total Suspended	3.7	mg/L	1	10/13/2022 17:37	BS		460036

Ammonia as N, Total

EPA 350.1

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		10/13/2022 16:13	MKL		
Holding Time Met	Yes	Yes/No		10/13/2022 16:13	MKL		
Sample Receipt Temperature	1	C		10/13/2022 16:13	MKL		
Ammonia as N	ND	mg/L	0.2	10/13/2022 16:13	MKL		460036

Glossary of Terms and Abbreviations

ND	No analyte detected at or above the RL (Reporting Limit) listed
NR	No Results available, analyte not in instrument calibration
RL	(Reporting Limit) The minimum levels, concentrations, or quantities of a target analyte that can be reported within a specified degree of confidence. Generally, this number is equal to or just above the lowest calibration standard run with the analytical batch.
B	Analyte was found in the method blank
D	RPD outside acceptable limits
H	Holding time exceeded
IS	Internal standard outside acceptable limits
J	Result above calibration curve - results are approximate
L	LCS Outside acceptable limits
MI	Matrix interference
MS	Matrix spike recovery outside acceptable limits
QC	Method QC criteria not met
S	Surrogate outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
LCS	(Laboratory Control Sample) A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	Method Detection Limit is an estimate of the minimum amount of a substance that an analytical process can reliably detect
RPD	(Relative Percent Difference) The difference between a set of duplicates or sample spike duplicates.
MS/MSD	(Matrix Spike or Matrix Spike Duplicate) A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analytes concentration is available. Matrix Spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.
Calibration Verification	(Initial, Continuing, or Final) A standard analyzed at different times to verify that the initial calibration curve is still valid.
Holding Time	The maximum time that samples may be held prior to analysis and still be considered valid or not compromised.
Internal Standard	A known amount of standard added to a test portion of a sample as a reference for evaluating and controlling the precision and bias of the applied analytical method.
Method Blank	A sample of a matrix similar to the batch associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples.
Surrogate	A substance with properties that mimic the analyte of interest. It is unlikely to be found in environmental samples and is added to them for quality control purposes in Organics.
EPL	Exceeds Permit Limit. This is a qualifier to denote that the result exceeds the permit limit of the sample location.
Exceeds Benchmark Concentration	Result Exceeds Benchmark concentration listed in the General Permit. Benchmark Concentrations are primarily used to determine the overall effectiveness of the Stormwater pollution prevention plan. Exceedence of Benchmark concentrations does NOT constitute a violation of this permit and does NOT indicate that violation of a water quality standard has occurred.
*	If present under the "Cert #" column, indicates that the laboratory does not have 2009 TNI accreditation in Virginia. These analytes should not be reported for Virginia Air, Water, or Waste Laws or the Safe Drinking Water Act to meet their requirements.
460036	If present under the "Cert #" Column, indicates that the laboratory holds accreditation under the 2009 TNI Standard in Virginia.
R	SM 5210B-2011 7.b. Test replicates show more than 30% difference between high and low values



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M2J0909

Project Description

Universal Labs

For:

Dan Thornton

Universal Laboratories, Inc.

20 Research Drive

Hampton, VA 23666

Project Manager

Alicia Walker

Thursday, October 20, 2022

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories Inc., - Marietta, OH. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M2J0909

Universal Laboratories, Inc.

Project Name: Universal Labs

Dan Thornton
20 Research Drive
Hampton, VA 23666

Project / PO Number. 101322-009
Received: 10/14/2022
Reported: 10/20/2022

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
2209181-001 E	M2J0909-01	Aqueous			10/12/22 09:40	10/14/22 10:15



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M2J0909

Analytical Testing Parameters

Client Sample ID:	2209181-001 E	Collection Date:	10/12/2022 9:40
Sample Matrix:	Aqueous		
Lab Sample ID:	M2J0909-01		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
SM 5310 C-2011								
Total Organic Carbon - TOC	3.42	1.00	mg/L	1		10/17/22 1556	10/18/22 2138	DIH

Definitions

mg/L: Milligrams per Liter
 RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.4°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH
 460187

Virginia Department of General Services

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<https://www.microbac.com/standard-terms-conditions>>.

Reviewed and Approved By:

Alicia Walker
 Project Manager
 Reported 10/20/2022 11:21

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com

Universal Laboratories

20 Research Drive

Hampton, VA 23666

1-800-695-2162

<http://www.universallaboratories.net>

Marine Base Quantico NREA

3250 Catlin Avenue

Quantico, VA, 22134

Contact: Dylan Lane, 703-432-0527, dylan.lane@usmc.mil

Client PO/Project Name _____

CHAIN OF CUSTODY

ID: 2209181

Form 2C Table A OF-035

Page 1 of 1

Sample Name	UL_Sample ID	Matrix	Sample Date/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-035 Grab	2209181-001	AQUEOUS	<div style="font-size: 2em; font-family: cursive;">10/12/22 9:40</div> <div style="font-size: 2em; font-family: cursive;">CSO</div>	001A	1/HDPE	H2SO4/<6°C	Waste, BOD, COD, TOC, TSS, NH3 RP RD
		AQUEOUS		001B	1/HDPE	<6°C	
		AQUEOUS		001C	2/HDPE	<6°C	
		AQUEOUS		001D	500/HDPE	H2SO4/<6°C	
		AQUEOUS		001E	150/HDPE	H2SO4/<6°C	

NOTES:

Phenol int check _____ CN int check _____ BOD int check _____ NH3 int check _____

CoolerTemp 1/20 °C

TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by		10/12/22 10:00	Received by		10/12/22 18:06
Relinquished by			Received by		10/12/22 18:06
Relinquished by			Received by		
Relinquished by			Received by		



Universal Laboratories
20 Research Drive
Hampton, VA 23666
Phone: 1-800-695-2162
Fax: 757-865-8014

Client Report For: Marine Base Quantico NREA

Attention: Dylan Lane

Client Address: 3250 Catlin Avenue

NREA (B046)

Quantico, VA 22134

Project: Form 2F Table A OF-072

Order Number: 2209174

Report Date: 11/25/2022

Lab Receipt Date: 11/17/2022

Comment: This report contains the analytical results for the indicated Project and Order. The results contained in this report relate only to the samples identified in this Order. The analytical results meet all requirements of the 2009 TNI Standard, unless specifically stated or laboratory does not hold accreditation as seen in the Cert # column. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by:

Carol K Zero

Signature

Carol K Zero

Name

President Director

Title

Universal Laboratories

Client: Marine Base Quantico NREA

Client Sample ID: OF-072 Grab

Lab ID: 2209174-001

Collection Date: 11/16/2022 09:40

Permit ID

Matrix: AQUEOUS

Analyses

Oil and Grease

EPA 1664A

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	2	pH Units		11/22/2022 10:31	LP		
Holding Time Met	Yes	Yes/No		11/22/2022 10:31	LP		
Sample Receipt Temperature	1	C		11/22/2022 10:31	LP		
Oil and Grease	ND	mg/L	5	11/22/2022 10:31	LP		460036

Biochemical Oxygen Demand (BOD) 5 Day

SM 5210 B (2011)

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		11/17/2022 13:57	BS		
Sample Receipt Temperature	1	C		11/17/2022 13:57	BS		
Biochemical Oxygen Demand	2	mg/L	2	11/17/2022 13:57	BS		460036

Chemical Oxygen Demand

HACH 8000

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		11/21/2022 10:36	MKL		
Holding Time Met	Yes	Yes/No		11/21/2022 10:36	MKL		
Sample Receipt Temperature	1	C		11/21/2022 10:36	MKL		
Chemical Oxygen Demand	ND	mg/L	20	11/21/2022 10:36	MKL		460036

Solids, Total Suspended

SM 2540D (2011)

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		11/17/2022 17:24	BS		
Sample Receipt Temperature	1	C		11/17/2022 17:24	BS		
Solids, Total Suspended	92.4	mg/L	1	11/17/2022 17:24	BS		460036

Phosphorus, Total

EPA 365.1

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		11/18/2022 16:54	LS.		
Holding Time Met	Yes	Yes/No		11/18/2022 16:54	LS.		
Sample Receipt Temperature	1	C		11/18/2022 16:54	LS.		
Phosphorus, Total	0.05	mg/L	0.02	11/18/2022 16:54	LS.		460036

Nitrogen, Total Kjeldahl

EPA 351.2

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		11/21/2022 17:36	MKL		
Holding Time Met	Yes	Yes/No		11/21/2022 17:36	MKL		
Sample Receipt Temperature	1	C		11/21/2022 17:36	MKL		
Nitrogen, Total Kjeldahl	0.5	mg/L	0.2	11/21/2022 17:36	MKL		460036

Universal Laboratories

Client: Marine Base Quantico NREA

Client Sample ID: OF-072 Grab

Lab ID: 2209174-001

Collection Date: 11/16/2022 09:40

Permit ID

Matrix: AQUEOUS

Analyses

Nitrogen, Total

EPA 351.2/ EPA 353.2

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		11/22/2022 13:50	MKL		
Holding Time Met	Yes	Yes/No		11/22/2022 13:50	MKL		
Sample Receipt Temperature	1	C		11/22/2022 13:50	MKL		
Nitrate/Nitrite as N	0.40	mg/L	0.1	11/22/2022 13:50	MKL		460036
Nitrogen, Total Kjeldahl	0.48	mg/L	0.2	11/22/2022 13:50	MKL		460036
Nitrogen, Total	0.88	mg/L	0.2	11/22/2022 13:50	MKL		*

Glossary of Terms and Abbreviations

ND	No analyte detected at or above the RL (Reporting Limit) listed
NR	No Results available, analyte not in instrument calibration
RL	(Reporting Limit) The minimum levels, concentrations, or quantities of a target analyte that can be reported within a specified degree of confidence. Generally, this number is equal to or just above the lowest calibration standard run with the analytical batch.
B	Analyte was found in the method blank
D	RPD outside acceptable limits
H	Holding time exceeded
IS	Internal standard outside acceptable limits
J	Result above calibration curve - results are approximate
L	LCS Outside acceptable limits
MI	Matrix interference
MS	Matrix spike recovery outside acceptable limits
QC	Method QC criteria not met
S	Surrogate outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
LCS	(Laboratory Control Sample) A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	Method Detection Limit is an estimate of the minimum amount of a substance that an analytical process can reliably detect
RPD	(Relative Percent Difference) The difference between a set of duplicates or sample spike duplicates.
MS/MSD	(Matrix Spike or Matrix Spike Duplicate) A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analytes concentration is available. Matrix Spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.
Calibration Verification	(Initial, Continuing, or Final) A standard analyzed at different times to verify that the initial calibration curve is still valid.
Holding Time	The maximum time that samples may be held prior to analysis and still be considered valid or not compromised.
Internal Standard	A known amount of standard added to a test portion of a sample as a reference for evaluating and controlling the precision and bias of the applied analytical method.
Method Blank	A sample of a matrix similar to the batch associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples.
Surrogate	A substance with properties that mimic the analyte of interest. It is unlikely to be found in environmental samples and is added to them for quality control purposes in Organics.
EPL	Exceeds Permit Limit. This is a qualifier to denote that the result exceeds the permit limit of the sample location.
Exceeds Benchmark Concentration	Result Exceeds Benchmark concentration listed in the General Permit. Benchmark Concentrations are primarily used to determine the overall effectiveness of the Stormwater pollution prevention plan. Exceedence of Benchmark concentrations does NOT constitute a violation of this permit and does NOT indicate that violation of a water quality standard has occurred.
*	If present under the "Cert #" column, indicates that the laboratory does not have 2009 TNI accreditation in Virginia. These analytes should not be reported for Virginia Air, Water, or Waste Laws or the Safe Drinking Water Act to meet their requirements.
460036	If present under the "Cert #" Column, indicates that the laboratory holds accreditation under the 2009 TNI Standard in Virginia.
R	SM 5210B-2011 7.b. Test replicates show more than 30% difference between high and low values

Universal Laboratories

Marine Base Quantico NREA

3250 Catlin Avenue
Quantico, VA, 22134

Contact: Dylan Lane, 703-432-0527, dylan.lane@usmc.mil
Client PO/Project Name _____

CHAIN OF CUSTODY

ID: 2209174

Form 2F Table A OF-072

20 Research Drive
Hampton, VA 23666
1-800-695-2162
<http://www.universallaboratories.net>

Page 1 of 1

Sample Name	UL_Sample ID	Matrix	Sample Date/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-072 Grab	2209174-001	AQUEOUS	11/16/2022 9:40 AM 111	001A	1/Glass	H2SO4/<6°C	waste, OGT, BOD, COD, TSS, T.PHOS, TKN, TN
		AQUEOUS		001B	1/Glass	H2SO4/<6°C	
		AQUEOUS		001C	1/Glass	H2SO4/<6°C	
		AQUEOUS		001D	1/HDPE	H2SO4/<6°C CA	
		AQUEOUS		001E	2/HDPE	<6°C	
		AQUEOUS		001F	1/HDPE	<6°C	

NOTES:
 Phenol int check _____ CN int check _____ BOD int check _____ NH3 int check _____
 CoolerTemp 10N/c

TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by		11/16/2022 9:40	Received by		11.17.22 1003
Relinquished by			Received by		11.17.22 1245
Relinquished by			Received by		
Relinquished by			Received by		



Universal Laboratories
20 Research Drive
Hampton, VA 23666
Phone: 1-800-695-2162
Fax: 757-865-8014

Client Report For: Marine Base Quantico NREA
Attention: Dylan Lane
Client Address: 3250 Catlin Avenue
NREA (B046)
Quantico, VA 22134
Project: Form 2F Table A OF-073
Order Number: 2209175
Report Date: 11/25/2022
Lab Receipt Date: 11/17/2022

Comment: This report contains the analytical results for the indicated Project and Order. The results contained in this report relate only to the samples identified in this Order. The analytical results meet all requirements of the 2009 TNI Standard, unless specifically stated or laboratory does not hold accreditation as seen in the Cert # column. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by: Carol K Zero Signature
Carol K Zero Name
President Director Title

Universal Laboratories

Client: Marine Base Quantico NREA	Client Sample ID: OF-073 Grab
Lab ID: 2209175-001	Collection Date: 11/16/2022 11:50
Permit ID	Matrix: AQUEOUS

Analyses

<i>Oil and Grease</i>		<i>EPA 1664A</i>					
	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	2	pH Units		11/22/2022 10:31	LP		
Holding Time Met	Yes	Yes/No		11/22/2022 10:31	LP		
Sample Receipt Temperature	1	C		11/22/2022 10:31	LP		
Oil and Grease	ND	mg/L	5	11/22/2022 10:31	LP		460036

<i>Biochemical Oxygen Demand (BOD) 5 Day</i>		<i>SM 5210 B (2011)</i>					
	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		11/17/2022 13:57	BS		
Sample Receipt Temperature	1	C		11/17/2022 13:57	BS		
Biochemical Oxygen Demand	5	mg/L	2	11/17/2022 13:57	BS		460036

<i>Chemical Oxygen Demand</i>		<i>HACH 8000</i>					
	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		11/21/2022 10:36	MKL		
Holding Time Met	Yes	Yes/No		11/21/2022 10:36	MKL		
Sample Receipt Temperature	1	C		11/21/2022 10:36	MKL		
Chemical Oxygen Demand	40.7	mg/L	20	11/21/2022 10:36	MKL		460036

<i>Solids, Total Suspended</i>		<i>SM 2540D (2011)</i>					
	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		11/17/2022 17:24	BS		
Sample Receipt Temperature	1	C		11/17/2022 17:24	BS		
Solids, Total Suspended	21.5	mg/L	1	11/17/2022 17:24	BS		460036

<i>Phosphorus, Total</i>		<i>EPA 365.1</i>					
	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		11/18/2022 16:54	LS.		
Holding Time Met	Yes	Yes/No		11/18/2022 16:54	LS.		
Sample Receipt Temperature	1	C		11/18/2022 16:54	LS.		
Phosphorus, Total	0.13	mg/L	0.02	11/18/2022 16:54	LS.		460036

<i>Nitrogen, Total Kjeldahl</i>		<i>EPA 351.2</i>					
	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		11/21/2022 17:36	MKL		
Holding Time Met	Yes	Yes/No		11/21/2022 17:36	MKL		
Sample Receipt Temperature	1	C		11/21/2022 17:36	MKL		
Nitrogen, Total Kjeldahl	1.0	mg/L	0.2	11/21/2022 17:36	MKL		460036

Universal Laboratories

Client: Marine Base Quantico NREA

Client Sample ID: OF-073 Grab

Lab ID: 2209175-001

Collection Date: 11/16/2022 11:50

Permit ID

Matrix: AQUEOUS

Analyses

Nitrogen, Total

EPA 351.2/ EPA 353.2

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		11/22/2022 13:50	MKL		
Holding Time Met	Yes	Yes/No		11/22/2022 13:50	MKL		
Sample Receipt Temperature	1	C		11/22/2022 13:50	MKL		
Nitrate/Nitrite as N	0.37	mg/L	0.1	11/22/2022 13:50	MKL		460036
Nitrogen, Total Kjeldahl	0.96	mg/L	0.2	11/22/2022 13:50	MKL		460036
Nitrogen, Total	1.33	mg/L	0.2	11/22/2022 13:50	MKL		.

Glossary of Terms and Abbreviations

ND	No analyte detected at or above the RL (Reporting Limit) listed
NR	No Results available, analyte not in instrument calibration
RL	(Reporting Limit) The minimum levels, concentrations, or quantities of a target analyte that can be reported within a specified degree of confidence. Generally, this number is equal to or just above the lowest calibration standard run with the analytical batch.
B	Analyte was found in the method blank
D	RPD outside acceptable limits
H	Holding time exceeded
IS	Internal standard outside acceptable limits
J	Result above calibration curve - results are approximate
L	LCS Outside acceptable limits
MI	Matrix interference
MS	Matrix spike recovery outside acceptable limits
QC	Method QC criteria not met
S	Surrogate outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
LCS	(Laboratory Control Sample) A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	Method Detection Limit is an estimate of the minimum amount of a substance that an analytical process can reliably detect
RPD	(Relative Percent Difference) The difference between a set of duplicates or sample spike duplicates
MS/MSD	(Matrix Spike or Matrix Spike Duplicate) A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analytes concentration is available. Matrix Spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.
Calibration Verification	(Initial, Continuing, or Final) A standard analyzed at different times to verify that the initial calibration curve is still valid.
Holding Time	The maximum time that samples may be held prior to analysis and still be considered valid or not compromised.
Internal Standard	A known amount of standard added to a test portion of a sample as a reference for evaluating and controlling the precision and bias of the applied analytical method
Method Blank	A sample of a matrix similar to the batch associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples.
Surrogate	A substance with properties that mimic the analyte of interest. It is unlikely to be found in environmental samples and is added to them for quality control purposes in Organics.
EPL	Exceeds Permit Limit. This is a qualifier to denote that the result exceeds the permit limit of the sample location
Exceeds Benchmark Concentration	Result Exceeds Benchmark concentration listed in the General Permit. Benchmark Concentrations are primarily used to determine the overall effectiveness of the Stormwater pollution prevention plan. Exceedence of Benchmark concentrations does NOT constitute a violation of this permit and does NOT indicate that violation of a water quality standard has occurred
*	If present under the "Cert #" column, indicates that the laboratory does not have 2009 TNI accreditation in Virginia. These analytes should not be reported for Virginia Air, Water, or Waste Laws or the Safe Drinking Water Act to meet their requirements.
460036	If present under the "Cert #" Column, indicates that the laboratory holds accreditation under the 2009 TNI Standard in Virginia.
R	SM 5210B-2011 7.b. Test replicates show more than 30% difference between high and low values

Universal Laboratories

20 Research Drive

Hampton, VA 23666

1-800-695-2162

<http://www.universallaboratories.net>

Marine Base Quantico NREA

3250 Catlin Avenue

Quantico, VA, 22134

Contact: Dylan Lane, 703-432-0527, dylan.lane@usmc.mil

Client PO/Project Name _____

CHAIN OF CUSTODY



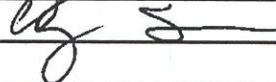
ID: 2209175

Form 2F Table A OF-073

Page 1 of 1

Sample Name	UL_Sample ID	Matrix	Sample Date/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-073 Grab	2209175-001	AQUEOUS	11/17/22 11:50	001A	1/Glass	H2SO4/<6°C	waste, OGT, BOD, COD, TSS, T.PHOS, TKN, TN
		AQUEOUS		001B	1/Glass	H2SO4/<6°C	
		AQUEOUS		001C	1/Glass	H2SO4/<6°C	
		AQUEOUS		001D	1/HDPE	H2SO4/<6°C	
		AQUEOUS		001E	2/HDPE	<6°C	
		AQUEOUS		001F	1/HDPE	<6°C	

NOTES: Phenol int check _____ CN int check _____ BOD int check _____ NH3 int check _____ CoolerTemp 10°C

TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by		11/17/22 11:50	Received by		11.17.22 10:03
Relinquished by			Received by		11.17.22 12:45
Relinquished by			Received by		
Relinquished by			Received by		



Universal Laboratories
20 Research Drive
Hampton, VA 23666
Phone: 1-800-695-2162
Fax: 757-865-8014

Client Report For: Marine Base Quantico NREA
Attention: Dylan Lane
Client Address: 3250 Catlin Avenue
NREA (B046)
Quantico, VA 22134
Project: Form 2F Table A OF-074
Order Number: 2209176
Report Date: 11/16/2022
Lab Receipt Date: 11/08/2022
Comment:

This report contains the analytical results for the indicated Project and Order. The results contained in this report relate only to the samples identified in this Order. The analytical results meet all requirements of the 2009 TNI Standard, unless specifically stated or laboratory does not hold accreditation as seen in the Cert # column. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by: Carol K Zero Signature
Carol K Zero Name
President Director Title

Universal Laboratories

Client: Marine Base Quantico NREA

Client Sample ID: OF-074 Grab

Lab ID: 2209176-001

Collection Date: 11/07/2022 09:00

Permit ID

Matrix: AQUEOUS

Analyses

Oil and Grease

EPA 1664A

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	2	pH Units		11/09/2022 11:22	LP		
Holding Time Met	Yes	Yes/No		11/09/2022 11:22	LP		
Sample Receipt Temperature	1	C		11/09/2022 11:22	LP		
Oil and Grease	ND	mg/L	5	11/09/2022 11:22	LP		460036

Biochemical Oxygen Demand (BOD) 5 Day

SM 5210 B (2011)

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		11/08/2022 14:55	BS		
Sample Receipt Temperature	1	C		11/08/2022 14:55	BS		
Biochemical Oxygen Demand	9	mg/L	2	11/08/2022 14:55	BS	B	460036

Chemical Oxygen Demand

HACH 8000

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		11/15/2022 11:41	LS		
Holding Time Met	Yes	Yes/No		11/15/2022 11:41	LS		
Sample Receipt Temperature	1	C		11/15/2022 11:41	LS		
Chemical Oxygen Demand	68.3	mg/L	20	11/15/2022 11:41	LS		460036

Solids, Total Suspended

SM 2540D (2011)

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		11/09/2022 10:03	BS		
Sample Receipt Temperature	1	C		11/09/2022 10:03	BS		
Solids, Total Suspended	19.0	mg/L	1	11/09/2022 10:03	BS		460036

Phosphorus, Total

EPA 365.1

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		11/11/2022 15:40	MKL		
Holding Time Met	Yes	Yes/No		11/11/2022 15:40	MKL		
Sample Receipt Temperature	1	C		11/11/2022 15:40	MKL		
Phosphorus, Total	0.05	mg/L	0.02	11/11/2022 15:40	MKL		460036

Nitrogen, Total Kjeldahl

EPA 351.2

	Test Result	Unit	RL	Analysis Date	Analysis By	Qualifier	Cert #
Sample Preservation pH	1	pH Units		11/09/2022 14:10	MKL		
Holding Time Met	Yes	Yes/No		11/09/2022 14:10	MKL		
Sample Receipt Temperature	1	C		11/09/2022 14:10	MKL		
Nitrogen, Total Kjeldahl	1.0	mg/L	0.2	11/09/2022 14:10	MKL		460036

Universal Laboratories

Client: Marine Base Quantico NREA

Client Sample ID: OF-074 Grab

Lab ID: 2209176-001

Collection Date: 11/07/2022 09:00

Permit ID

Matrix: AQUEOUS

Analyses

Nitrogen, Total

EPA 351.2/ EPA 353.2

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		11/11/2022 14:33	MKL		
Holding Time Met	Yes	Yes/No		11/11/2022 14:33	MKL		
Sample Receipt Temperature	1	C		11/11/2022 14:33	MKL		
Nitrate/Nitrite as N	ND	mg/L	0.1	11/11/2022 14:33	MKL		460036
Nitrogen, Total Kjeldahl	1.04	mg/L	0.2	11/11/2022 14:33	MKL		460036
Nitrogen, Total	1.04	mg/L	0.2	11/11/2022 14:33	MKL		*

Glossary of Terms and Abbreviations

ND	No analyte detected at or above the RL (Reporting Limit) listed
NR	No Results available, analyte not in instrument calibration
RL	(Reporting Limit) The minimum levels, concentrations, or quantities of a target analyte that can be reported within a specified degree of confidence. Generally, this number is equal to or just above the lowest calibration standard run with the analytical batch.
B	Analyte was found in the method blank
D	RPD outside acceptable limits
H	Holding time exceeded
IS	Internal standard outside acceptable limits
J	Result above calibration curve - results are approximate
L	LCS Outside acceptable limits
MI	Matrix interference
MS	Matrix spike recovery outside acceptable limits
QC	Method QC criteria not met
S	Surrogate outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
LCS	(Laboratory Control Sample) A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	Method Detection Limit is an estimate of the minimum amount of a substance that an analytical process can reliably detect
RPD	(Relative Percent Difference) The difference between a set of duplicates or sample spike duplicates.
MS/MSD	(Matrix Spike or Matrix Spike Duplicate) A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analytes concentration is available. Matrix Spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.
Calibration Verification	(Initial, Continuing, or Final) A standard analyzed at different times to verify that the initial calibration curve is still valid.
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EPL	Exceeds Permit Limit. This is a qualifier to denote that the result exceeds the permit limit of the sample location.
Exceeds Benchmark Concentration	Result Exceeds Benchmark concentration listed in the General Permit. Benchmark Concentrations are primarily used to determine the overall effectiveness of the Stormwater pollution prevention plan. Exceedence of Benchmark concentrations does NOT constitute a violation of this permit and does NOT indicate that violation of a water quality standard has occurred.
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460036	If present under the "Cert #" Column, indicates that the laboratory holds accreditation under the 2009 TNI Standard in Virginia.
R	SM 5210B-2011 7.b. Test replicates show more than 30% difference between high and low values

Universal Laboratories

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Marine Base Quantico NREA

3250 Catlin Avenue

Quantico, VA, 22134

CHAIN OF CUSTODY

ID: 2209176

Form 2F Table A OF-074

Page 1 of 1

Contact: Dylan Lane, 703-432-0527, dylan.lane@usmc.mil

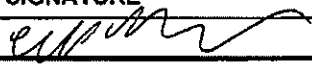
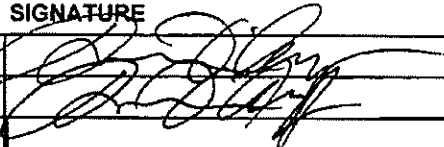
Client PO/Project Name _____

Sample Name	UL_Sample ID	Matrix	Sample Date/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-074 Grab	2209176-001	AQUEOUS	11/7/22 9:00 COY 	001A	1/Glass	H2SO4/<6°C	Waste, OGT, BOD, COD, TSS, PHOS, TKN, TN R0 R0 R0 R0
		AQUEOUS		001B	1/Glass	H2SO4/<6°C	
		AQUEOUS		001C	1/Glass	H2SO4/<6°C	
		AQUEOUS		001D	1/HDPE	H2SO4/<6°C	
		AQUEOUS		001E	2/HDPE	<6°C	
		AQUEOUS		001F	1/HDPE	<6°C	

NOTES:

Phenol int check _____ CN int check _____ BOD int check _____ NH3 int check _____

CoolerTemp 1/10/22 ^{R0}_C

TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by		11/7/22 10:35	Received by		11/8/22 10:01 ^{R0}
Relinquished by			Received by		11/8/22 13:25 ^{R0}
Relinquished by			Received by		
Relinquished by			Received by		



UNIVERSAL LABORATORIES

Headquarters
20 Research Drive
Hampton, Virginia 23666

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Fax: 757-865-8014
Toll Free: 800-695-2162

Maintenance Branch MCCDC
3252 Barnett Avenue
Utilities Sect. C041-7
Quantico, VA 22134
Attn: Paul Redden

Re: BOD analysis

November 14, 2022

Dear Mr. Redden,

The Biochemical Oxygen Demand (BOD) sample collected on 11/08/2022 and labeled as Order ID 2209176-001 has been flagged with a "B". The "B" qualifier indicating a problem with the blank analysis on that day. The blanks are required to be $\leq 0.2\text{mg/L}$; however, on this day the blanks averaged at 0.37mg/L .

We are sorry for any inconvenience that this may cause. If you have any questions, please feel free to contact your Project Manager at the numbers above.

Sincerely,

Stacie Splinter
Quality Director
Universal Laboratories
s.splinter@universallaboratories.net



Universal Laboratories
20 Research Drive
Hampton, VA 23666
Phone: 1-800-695-2162
Fax: 757-865-8014

Client Report For: Marine Base Quantico NREA
Attention: Dylan Lane
Client Address: 3250 Catlin Avenue
NREA (B046)
Quantico, VA 22134
Project: Form 2F Table A OF-090
Order Number: 2209178

Report Date: 11/25/2022
Lab Receipt Date: 11/18/2022

Comment: This report contains the analytical results for the indicated Project and Order. The results contained in this report relate only to the samples identified in this Order. The analytical results meet all requirements of the 2009 TNI Standard, unless specifically stated or laboratory does not hold accreditation as seen in the Cert # column. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by: Carol K Zero Signature
Carol K Zero Name
President Director Title

Universal Laboratories

Client: Marine Base Quantico NREA

Lab ID: 2209178-001

Permit ID

Client Sample ID: OF-090 Grab

Collection Date: 11/17/2022 08:25

Matrix: AQUEOUS

Analyses

Oil and Grease

EPA 1664A

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		11/22/2022 10:31	LP		
Holding Time Met	Yes	Yes/No		11/22/2022 10:31	LP		
Sample Receipt Temperature	1	C		11/22/2022 10:31	LP		
Oil and Grease	ND	mg/L	5	11/22/2022 10:31	LP		460036

Biochemical Oxygen Demand (BOD) 5 Day

SM 5210 B (2011)

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		11/18/2022 13:44	BS		
Sample Receipt Temperature	1	C		11/18/2022 13:44	BS		
Biochemical Oxygen Demand	<2	mg/L	2	11/18/2022 13:44	BS		460036

Chemical Oxygen Demand

HACH 8000

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		11/21/2022 10:36	MKL		
Holding Time Met	Yes	Yes/No		11/21/2022 10:36	MKL		
Sample Receipt Temperature	1	C		11/21/2022 10:36	MKL		
Chemical Oxygen Demand	ND	mg/L	20	11/21/2022 10:36	MKL		460036

Solids, Total Suspended

SM 2540D (2011)

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Holding Time Met	Yes	Yes/No		11/20/2022 18:03	LP		
Sample Receipt Temperature	1	C		11/20/2022 18:03	LP		
Solids, Total Suspended	7.7	mg/L	1	11/20/2022 18:03	LP		460036

Phosphorus, Total

EPA 365.1

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		11/22/2022 17:05	MKL		
Holding Time Met	Yes	Yes/No		11/22/2022 17:05	MKL		
Sample Receipt Temperature	1	C		11/22/2022 17:05	MKL		
Phosphorus, Total	0.03	mg/L	0.02	11/22/2022 17:05	MKL		460036

Nitrogen, Total Kjeldahl

EPA 351.2

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		11/21/2022 17:36	MKL		
Holding Time Met	Yes	Yes/No		11/21/2022 17:36	MKL		
Sample Receipt Temperature	1	C		11/21/2022 17:36	MKL		
Nitrogen, Total Kjeldahl	0.3	mg/L	0.2	11/21/2022 17:36	MKL		460036

Universal Laboratories

Client: Marine Base Quantico NREA

Client Sample ID: OF-090 Grab

Lab ID: 2209178-001

Collection Date: 11/17/2022 08:25

Permit ID

Matrix: AQUEOUS

Analyses

Nitrogen, Total

EPA 351.2/ EPA 353.2

	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	<u>Analysis By</u>	<u>Qualifier</u>	<u>Cert #</u>
Sample Preservation pH	1	pH Units		11/22/2022 13:50	MKL		
Holding Time Met	Yes	Yes/No		11/22/2022 13:50	MKL		
Sample Receipt Temperature	1	C		11/22/2022 13:50	MKL		
Nitrate/Nitrite as N	ND	mg/L	0.1	11/22/2022 13:50	MKL		460036
Nitrogen, Total Kjeldahl	0.26	mg/L	0.2	11/22/2022 13:50	MKL		460036
Nitrogen, Total	0.26	mg/L	0.2	11/22/2022 13:50	MKL		*

Glossary of Terms and Abbreviations

ND	No analyte detected at or above the RL (Reporting Limit) listed
NR	No Results available, analyte not in instrument calibration
RL	(Reporting Limit) The minimum levels, concentrations, or quantities of a target analyte that can be reported within a specified degree of confidence. Generally, this number is equal to or just above the lowest calibration standard run with the analytical batch.
B	Analyte was found in the method blank
D	RPD outside acceptable limits
H	Holding time exceeded
IS	Internal standard outside acceptable limits
J	Result above calibration curve - results are approximate
L	LCS Outside acceptable limits
MI	Matrix Interence
MS	Matrix spike recovery outside acceptable limits
QC	Method QC criteria not met
S	Surrogate outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
LCS	(Laboratory Control Sample) A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	Method Detection Limit is an estimate of the minimum amount of a substance that an analytical process can reliably detect
RPD	(Relative Percent Difference) The difference between a set of duplicates or sample spike duplicates.
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Exceeds Benchmark Concentration	Result Exceeds Benchmark concentration listed in the General Permit. Benchmark Concentrations are primarily used to determine the overall effectiveness of the Stormwater pollution prevention plan. Excedence of Benchamrk concentrations does NOT constitute a violation of this permit and does NOT indicate that violation of a water quality standard has occurred.
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460036	If present under the "Cert #" Column, indicates that the laboratory holds accreditation under the 2009 TNI Standard in Virginia.
R	SM 5210B-2011 7.b. Test replicates show more than 30% difference between high and low values

Universal Laboratories

Marine Base Quantico NREA

3250 Catlin Avenue
Quantico, VA, 22134

Contact: Dylan Lane, 703-432-0527, dylan.lane@usmc.mil

Client PO/Project Name _____

CHAIN OF CUSTODY

ID: 2209178

Form 2F Table A OF-090

20 Research Drive

Hampton, VA 23666

1-800-695-2162

<http://www.universallaboratories.net>

Page 1 of 1

Sample Name	UL_Sample ID	Matrix	Sample Date/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-090 Grab	2209178-001	AQUEOUS	11/18/22 8:25 COX	001A	1/Glass	H2SO4/<6°C	waste, OGT, BOD, COD, TSS, T.PHOS, TKN, TN
		AQUEOUS		001B	1/Glass	H2SO4/<6°C	
		AQUEOUS		001C	1/Glass	H2SO4/<6°C	
		AQUEOUS		001D	1/HDPE	H2SO4/<6°C	
		AQUEOUS		001E	2/HDPE	<6°C	
		AQUEOUS		001F	1/HDPE	<6°C	

NOTES:

Phenol int check _____ CN int check _____ BOD int check _____ NH3 int check _____

Cooler Temp 10°C

TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by	<i>[Signature]</i>	11/18/22 10:30	Received by	<i>[Signature]</i>	11.18.22 1003
Relinquished by			Received by	<i>[Signature]</i>	11.18.22 1258
Relinquished by			Received by		
Relinquished by			Received by		

