

#### 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.

J. David Grose

Full information about the drop-off:

Claim ID: 2sEYsiFcbA5dtN5F

Recipient Code: ucyAnh

a4FVsuYqq43tvU9W Claim Passcode: 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

#### **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 1 5 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

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## PUBLIC NOTICE BILLING AUTHORIZATION FORM

VPDES Permit No. VA00 02151

Facility Name: USMC Base Quantico - NREAB Industrial

I hereby authorize the Department of Environn to the Agent/Department shown below. The proceeds in <a href="Inside Nova">Inside Nova</a>	ublic notice will be published once a v	
Agent/Department to be billed:	Walter Christensen	
Owner:	MCINCR-MCBQ	
Agent/Department Address:	NREA Branch (B 046)	
Address	2006 Hawkins Ave, 3rd floor, Rm. 3	336
City, State Zip	Quantico, VA 22134	
Agent's Telephone No.:	- 703-784-4030	
I am also authorizing the above listed news	paper to send the publication verific	cation to:
	DEQ Northern  Water Permits – ATTN: Susan Mack	Regional Office
	water remits – Arriv. addarwater	
Authorizing Agent - Printed Name:	Walter Christensen	
Authorizing Agent – Signature:		
Date:	20221215	
ONLY APPLICABLE FOR INDUSTRIAL M	IINOR PERMIT ACTIONS	
For industrial minor permit actions, DEQ may pand provide the complete public notice content otherwise the appropriate box below.	_	
Applicant or permittee agrees to utilize with the complete public notice provide		
Applicant or permittee declines to utilize in the newspaper noted above.	e the abbreviated public notice and pre	fers to publish the full notice
RETURN THIS COMPLETED FORM TO:	DEQ Northern	Regional Office
	Water Permits - ATTN: Susan Macket	ert

## 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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#### Form 2C, Application for Discharge of Industrial Wastewater

Attachment: Figure 2C.2.1.1 – Line Diagram/Water Balance for Outfall 003
Attachment: Figure 2C.2.1.2 - Line Diagram/Water Balance for Outfall 035
Attachment: Table 2C.3.1 – Outfall Average Flows and Treatment

Attachment. Table 2C.3.1 – Outlan Average Flows and Treat

Attachment: Table 2C.4.2 – Seasonal/Intermittent Flows

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

#### Form 2F, Application for Discharge of Stormwater Associated with Industrial Activity

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Table 2F.1.1 – Outfall Locations
Attachment:
            Figure 2F.3.1.1 - Location Map
Attachment:
Attachment: Figure 2F.3.1.2 – VPDES OF 010 DRAINAGE BASIN
Attachment:
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Attachment:
            Figure 2F.3.1.4 – VPDES OF 016 DRAINAGE BASIN
Attachment:
            Figure 2F.3.1.5 – VPDES OF 018 DRAINAGE BASIN
            Figure 2F.3.1.6 – VPDES OF 072 DRAINAGE BASIN
Attachment:
Attachment:
            Figure 2F.3.1.7 – VPDES OF 073 DRAINAGE BASIN
Attachment:
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Attachment:
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Attachment:
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Attachment:
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            Table 2F.4.1 – Outfall Drainage Areas and Impervious Surfaces
Attachment:
Attachment: 2F.4.2 – Outfall Narrative Description of Pollutant Sources
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Attachment: 2F.4.3 – Outfall Control Measures and Treatment

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 VO
	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 <i>only one</i> 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.
5.	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?

### 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 ***

NPDES Permit Number Form Approved 03/05/19 EPA Identification Number Facility Name OMB No. 2040-0004 110070001339 VA0002151 Marine Corps Base Quantico U.S. Environmental Protection Agency Form Application for NPDES Permit to Discharge Wastewater **SEPA NPDES GENERAL INFORMATION** SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1)) Applicants Not Required to Submit Form 1 Is the facility a new or existing treatment works Is the facility a new or existing publicly owned 1.1.1 1.1.2 treatment works? treating domestic sewage? If yes, STOP. Do NOT If yes, STOP. Do NOT complete  $\square$ No  $\nabla$ No Form 1. Complete Form 2A. complete Form 1. Complete Form 2S. 1.2 Applicants Required to Submit Form 1 1.2.1 Is the facility a concentrated animal feeding 1.2.2 Is the facility an existing manufacturing, Activities Requiring an NPDES Permit operation or a concentrated aquatic animal commercial, mining, or silvicultural facility that is currently discharging process wastewater? production facility? Yes → Complete Form Yes → Complete Form 1 No No **V** 1 and Form 2C. and Form 2B. Is the facility a new or existing manufacturing. 1.2.3 Is the facility a new manufacturing, commercial, 1.2.4 mining, or silvicultural facility that has not yet commercial, mining, or silvicultural facility that commenced to discharge? discharges only nonprocess wastewater? Yes → Complete Form Yes → Complete Form 1 No **√** No  $\square$ and Form 2D. 1 and Form 2E. 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? Yes → Complete Form 1 No and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15)SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2)) 2.1 **Facility Name** Marine Corps Base Quantico Name, Mailing Address, and Location 2.2 **EPA Identification Number** 110070001339 2.3 **Facility Contact** Name (first and last) Title Phone number J. David Grose (703) 432-1335 Head, Environmental Compliance Section 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 ZIP code City or town State Quantico Virginia 22134

			mit Number Facility Name		Form Approved 03/05/19 OMB No. 2040-0004			
	1100700	01339	VA000	2151 Marine Corps Base Quantico		CO OMB No. 2040-0004		
့် မွ	2.5	Facility Location	on	j	,	•		
		Street, route number, or other specific identifier						
ont &		B046 NREA, 2006 Hawkins Avenue, 3rd floor, Room 336						
gu Ou		County name		County code (i		The state of the s		
aili		Prince William -	Stafford	County code (i	(KIOWII)			
			31411010					
Name, Mailing Address, and Location Continued		City or town		State		ZIP code		
-Z &		Quantico,		Virginia		22134		
SECTIO	N 3. SIC	AND NAICS CO	DES (40 CFR 12)	2.21(f)(3))				
1 1 1 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1	3.1	SIC C	ode(s)	Description (o	ptional)			
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		3711		IVACIONAL SCCUL	ty Marine Corps			
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SC								
SIC and NAICS Codes	2.0	NAIGO	0.173	<b>D</b>	· · · · · · · · · · · · · · · · · · ·			
N pi	3.2	NAICS	Code(s)	Description (o	ptional)	A Filmsgir sa wei line si		
) ar		928110		National Securit	y, Marine Corps, Military Base	es and Camps		
S					•			
SECTIO	N 4. OPE	RATOR INFORM	IATION (40 CFR	122.21(f)(4))				
1000	4.1	Name of Opera						
		United States Ma						
_	4.0							
Operator Information	4.2	Is the name you	listed in Item 4.1	also the owner?		·		
Ĕ∣		☑ Yes □ No						
벁	4.3	Operator Statu		ang diga senjinggay nasani	graf freezing to grave the analysis is extracted to	generali escensis e escin in general e elle libertica de cara		
ţ	4.0	✓ Public—fed		Public—state		aublic (acceife)		
90		l	erai 🗀	•	LI Other	public (specify)		
9		☐ Private		Other (specify) _				
	4.4	Phone Number	of Operator					
		(703) 432-0539						
_	4.5	Operator Addre	ess					
Operator Information Continued		Street or P.O. Box						
<u> </u>				ie, 3rd Floor, Rm	336			
of an		City or town	*****	State		ZIP code		
ator Inform Continued		Quantico		Virginia		22134		
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ö		Email address o	•					
		john.d.grose@us			<u>.</u>			
SECTIO	N 5. INDI	AN LAND (40 CF	R 122.21(f)(5))					
Indian Land	5.1	Is the facility loc	ated on Indian La	ınd?				
La G		☐ Yes ☑	No					

EPA Form 3510-1 (revised 3-19) Page 2

EPA Identification Number		NPDES Permit N	DES Permit Number		Facility Name		Form Approved 03/05/19 QMB No. 2040-0004	
	1100700	01339	VA000215	Marine Corps Base Quantico			:0	OWID NO. 2040-0004
SECTIO	N 6 EXIS	STING ENVIRON	MENTAL PERMITS	(40 CFR 122	21(f)(6	))		
	6.1						COEDO	nding permit number for each)
ntal	0.1						=	
ner		•	scharges to surface	LEZI RCRA	(hazaro	lous wastes)	ш	UIC (underground injection of
luo s		water)				1		fluids)
Ferviron Permits		See attach			ached			
Existing Environmental Permits		☐ PSD (air er	nissions)			program (CAA)	Ш	NESHAPs (CAA)
Ę	:	<b></b>		see atta		-	_	
ı <u>s</u>		Ocean dun	nping (MPRSA)	L Dredge	or fill (	CWA Section 404)	✓	Other (specify)
15-17-18-51-15-								see attached list
SECTIO	N 7. MAF	40 CFR 122.21	(f)(7))					
	7.1	Have you attac	hed a topographic ma	p containing	all requ	ired information to this	appli	cation? (See instructions for
Map		specific require	ments.)					
<b></b>		☑ Yes □	NE FICATO NA	t Analiaahla (	Caa #0	nuisamento in Form 2D	١	j
San Araba		v Yes □	No ∐ CAFO—No	t Applicable (	See re	quirements in Form 2B.	.)	
SECTIO	N 8. NAT	URE OF BUSIN	ESS (40 CFR 122.21)	(f)(8))				
10.000	8.1	Describe the na	ature of your business					
		To develop and	provide training to m	ajor element	s of the	U.S. Marine Corps offi	icers	and senior enlisted personnel.
ம								equipment doctrine, tactics
Nature of Business								nphibious operations. To
ūSi		maintain and o	perate facilities and p	rovide admin	istrativ	e/logistical support for	the i	nstallation.
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<u>e</u>								
atn								
								ļ
SECTIO	N 9. COC	LING WATER II	NTAKE STRUCTURE	S (40 CFR 1	22.21(1	(9))		
1000	9.1	Does your facili	ity use cooling water?					
			A OVIDA	10.4				
res			No → SKIP to Item		****			
oling Water ce Structures	9.2							e structure as described at
Stri						cation requirements at 4 formation needs to be s		R 122.21(r). Consult with your
		NPDES permit	ing authority to determ	illile wilat spe	scine in	ioimation needs to be s	SUDITE	med and when.)
<u>ප්</u>								
SECTIO	N 10. VA		STS (40 CFR 122.21					
***	10.1							R 122.21(m)? (Check all that
<u>s</u>		apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and						
rest		when.)						
edi			entally different factor	s (CWA		, ,	efflue	nt limitations (CWA Section
9. E		Section :	301(n))			302(b)(2))		
anc			ventional pollutants (0	CWA		Thermal discharges (	CWA	Section 316(a))
Variance Requests		Section 3	301(c) and (g))					
-		✓ Not appl	icable					

EPA Form 3510-1 (revised 3-19) Page 3

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

	IECKLIS	T AND CERTIFICATION STATEMENT (40 CFR 12	2.22(a	) and (d))					
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11.1	For eac	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.							
	A 4. [	Column 1		The second of the activities to the	Column 2				
	Ū∕	Section 1: Activities Requiring an NPDES Permit		w/ attachments					
	IJ∕	Section 2: Name, Mailing Address, and Location		w/ attachments					
	12	Section 3: SIC Codes		w/ attachments					
	Ū∕	Section 4: Operator Information		w/ attachments					
	12	Section 5: Indian Land		w/ attachments					
	Ū/	Section 6: Existing Environmental Permits		w/ attachments					
		Section 7: Map	旦	✓w/ topographic map	w/ additional attachments				
	Ū∕	Section 8: Nature of Business	<b>U</b>	w/ attachments					
		Section 9: Cooling Water Intake Structures		w/ attachments					
	□ <b>′</b>	Section 10: Variance Requests		w/ attachments					
	IJŹ	Section 11: Checklist and Certification Statement		w/ attachments					
11.2	Certific	cation Statement							
	in accordance with a system designed to assure that quali information submitted. Based on my inquiry of the person of directly responsible for gathering the information, the information, the information, the information, the information, the information was a submitted to the control of the			sonnel properly ga ons who manage th submitted is, to the mificant penalties fo	ther and evaluate the ne system, or those persons best of my knowledge and				
	Name (	print or type first and last name)	Official title						
	W	ALTER CHRISTENSEN	5	とく るさし てい	WAL DIRECTOR				
	Signatu	ire	Date	signed					
	<u> </u>			2022121	9				
_	11.1	For each that not tha	For each section, specify in Column 2 any attachments that that not all applicants are required to provide attachments.  Column 1  Section 1: Activities Requiring an NPDES Permit  Section 2: Name, Mailing Address, and Location  Section 3: SIC Codes  Section 4: Operator Information  Section 5: Indian Land  Section 6: Existing Environmental Permits  Section 7: Map  Section 9: Cooling Water Intake Structures  Section 10: Variance Requests  Section 11: Checklist and Certification Statement  11.2 Certification Statement  I certify under penalty of law that this document and all attain accordance with a system designed to assure that qualifinformation submitted. Based on my inquiry of the person of directly responsible for gathering the information, the information for the person of the person of the person of the person is the information of the person of the person of the person of the person is the person of the per	For each section, specify in Column 2 any attachments that you a that not all applicants are required to provide attachments.  Column 1  Section 1: Activities Requiring an NPDES Permit  Section 2: Name, Mailing Address, and Location  Section 3: SIC Codes  Section 4: Operator Information  Section 5: Indian Land  Section 6: Existing Environmental Permits  Section 7: Map  Section 9: Cooling Water Intake Structures  Section 10: Variance Requests  Section 11: Checklist and Certification Statement  I certify under penalty of law that this document and all attachmer in accordance with a system designed to assure that qualified per information submitted. Based on my inquiry of the person or person directly responsible for gathering the information, the information belief, true, accurate, and complete. I am aware that there are signicluding the possibility of fine and imprisonment for knowing viole Name (print or type first and last name)  Official	For each section, specify in Column 2 any attachments that you are enclosing to ale that not all applicants are required to provide attachments.  Column 1  Section 1: Activities Requiring an NPDES Permit				

## 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)

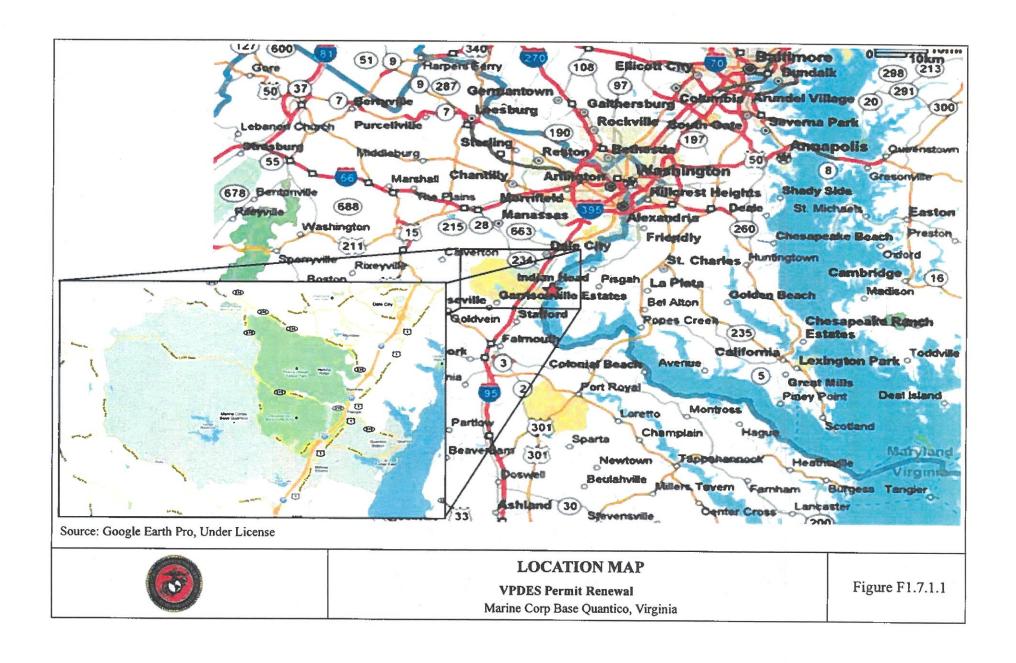
6153675 Waterworks Operation Permit – Mainside

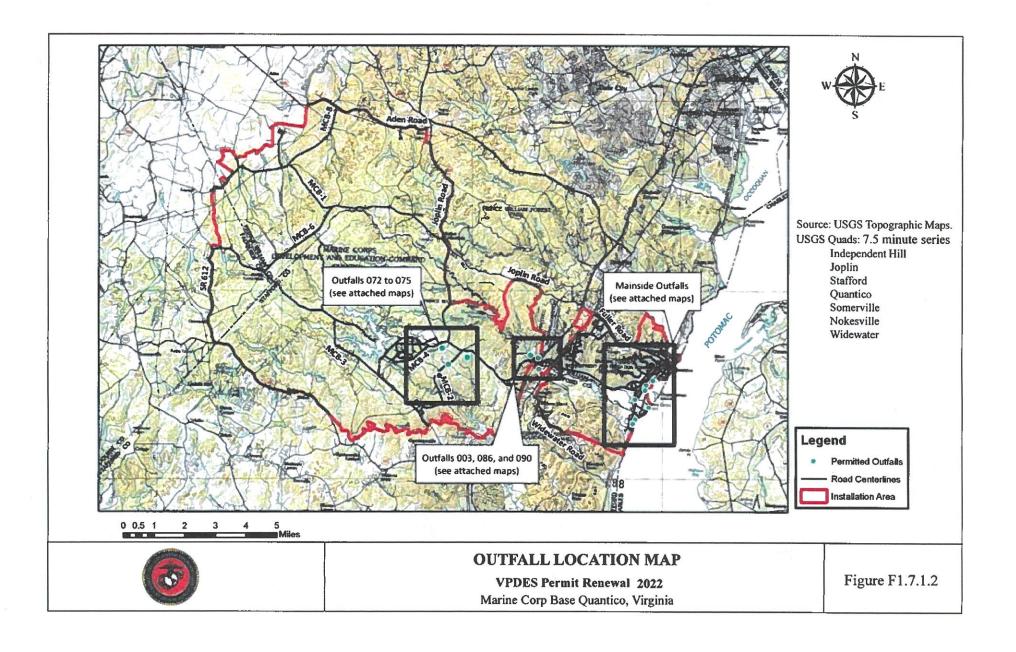
VA 411 Solid Waste Management Permit

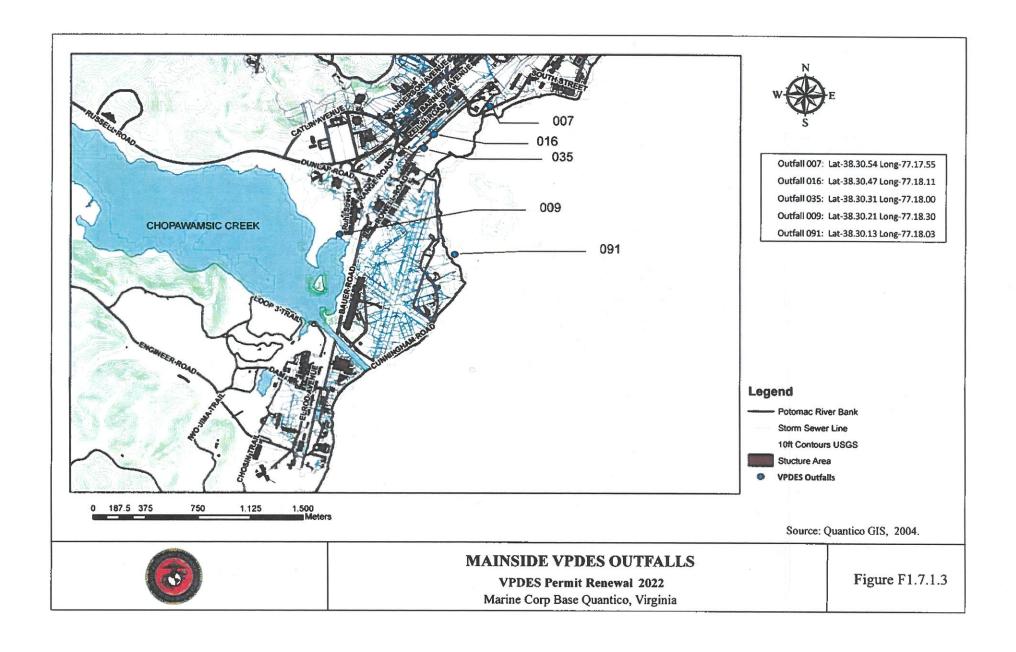
STFRD-002 Stafford County, Virginia, Significant Industrial User Permit

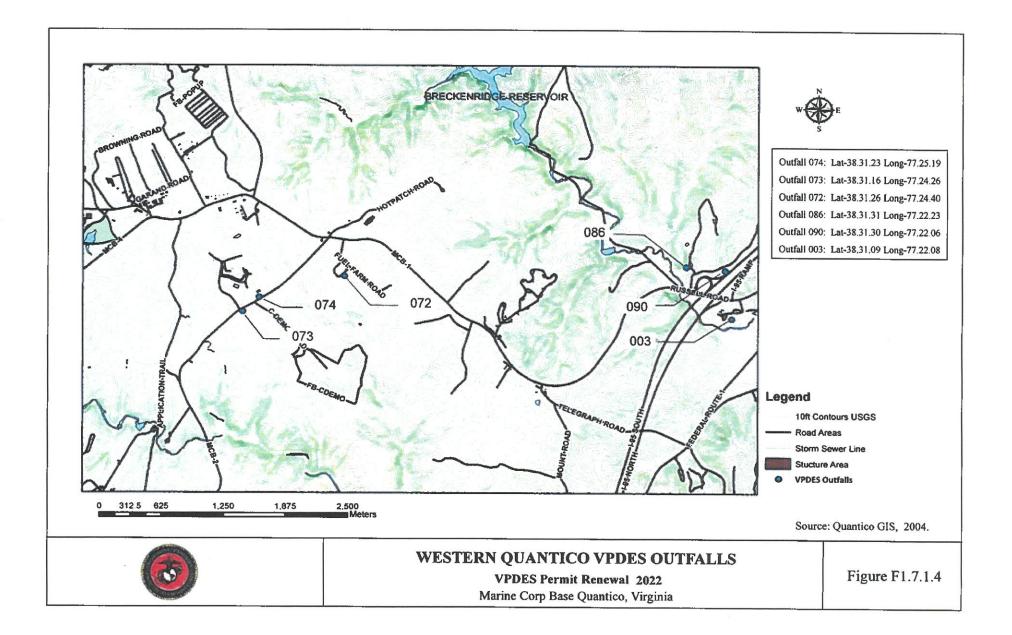
(Categorical)

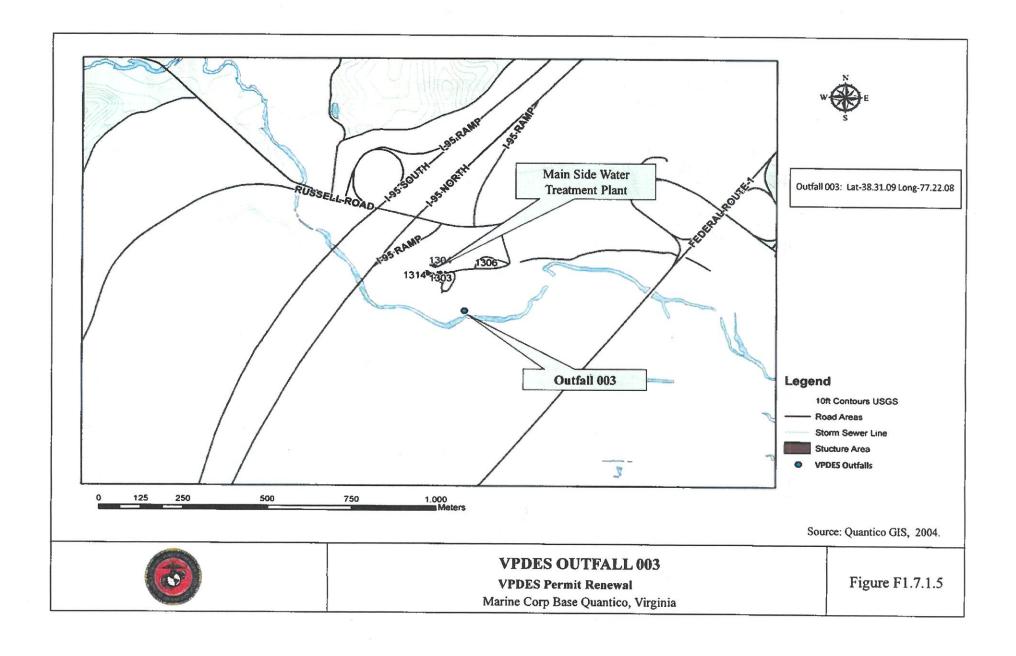
VA6153063 Camp Upshur Water System VA6153060 Camp Barrett Water System

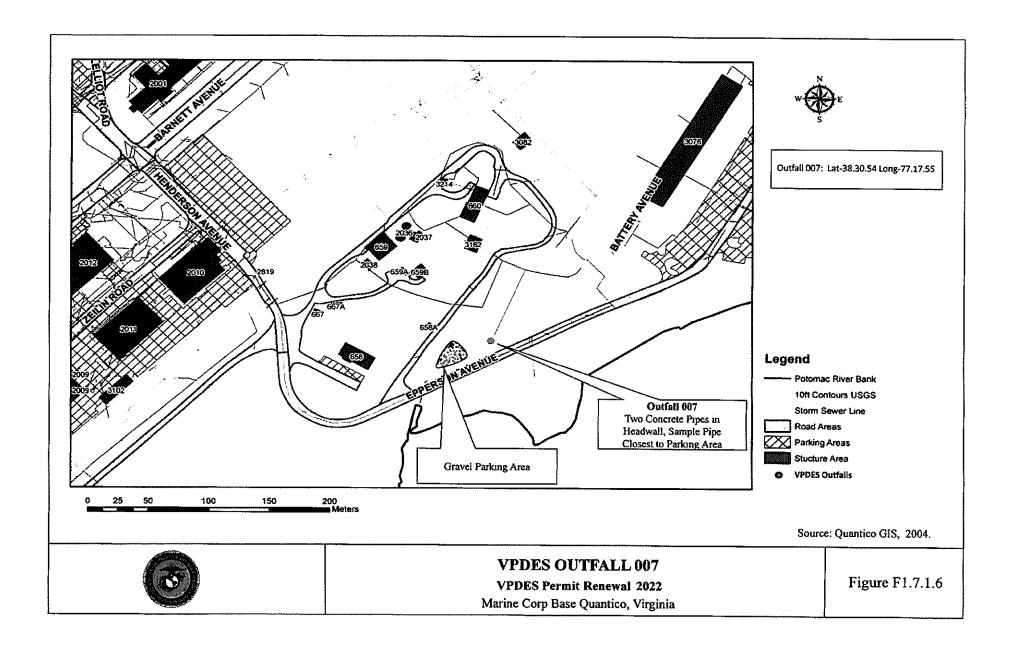


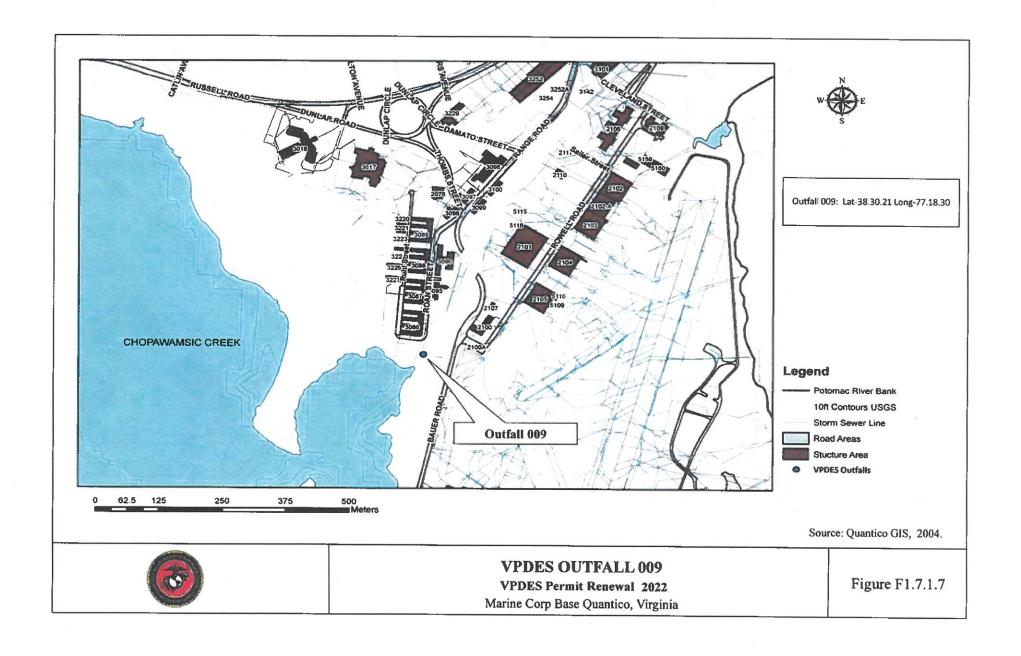


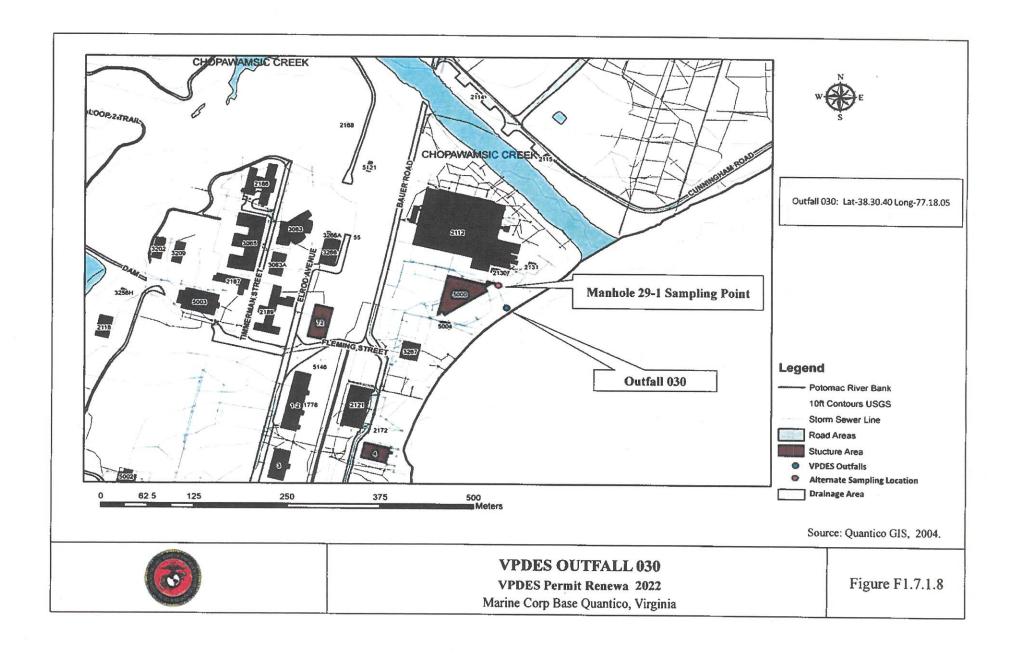


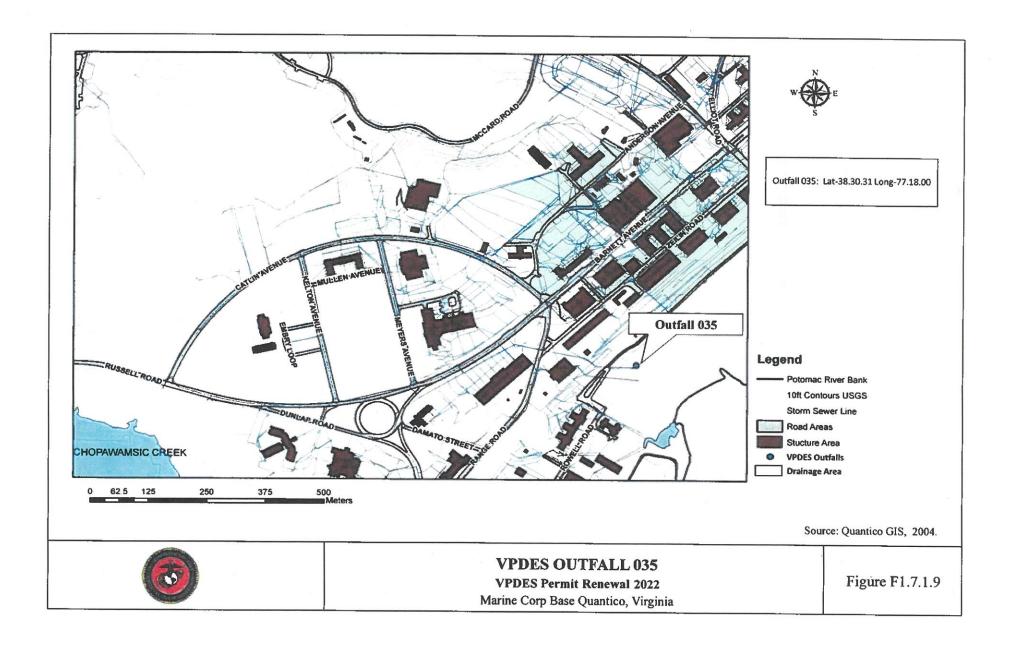












Subject: Standard Operating Procedures – FMS – Facilities Maintenance

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 NOTIFICAT	<ul> <li>MCB Quantico Fire Department: 911</li> <li>Immediate Supervisor</li> </ul>					
FACILITY CONTACT(S):						
Facility Emergency Coordinator		Title		Phone	Fax	
Shawn Bowman	Deputy	Super	rvisor	703-784-1492	703-784-4841	
NREAB	Andresson		158211	703-784-4030	703-784-4953	
SPILL PATHWAY:						
Potential Water Body:	UT to Poto	mac I	River			
SPILL RESPONSE EQUIPMENT MATE	RIALS:					
<ul> <li>Absorbent pads and speedy-dry</li> </ul>		•	Shower	Station with Eyew	ash	
• Fire Extinguishers		•	Spill kit	s and Emergency 1	kits	
<ul> <li>First aid kits</li> </ul>		•	Telephone Communications			
• Leak Detection System (Visual)		•	Emerge	ncy Alarm		
SOURCE CONTROL PROCEDURES:	Proceed on	ıly if p	roperly	trained and safe	conditions exist	
1) Stop the flow		5)	Cleanup	o/recover spill		
2) Shut off / extinguish ignition source		6)	Arrange	e for proper disposa	al	
3) Contain spill		7)	Always	document inciden	t	
4) Dike or cover sewers						

Subject: Standard Operating Procedures - FMS - Facilities 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	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			

Subject: Standard Operating Procedures – FMS – Facilities 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 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

- 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

## **OUTDOOR PAINTING OPERATIONS**

- 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

- Perform all vehicle/equipment washing in the designated wash down area
- Perform all equipment maintenance indoors
- Use biodegradable detergents when washing vehicle/equipment

## Storm Water Pollution Prevention Plan

MCB Quantico

Subject: Standard Operating Procedures – FMS – Facilities Maintenance Revised May 2021

- 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

### PESTICIDE/HERBICIDE APPLICATION

- Implement the Base Pesticide Management Plan and Base Nutrient Management Plan
- Follow EPA label recommendations
- Only apply during dry weather conditions

#### **AUDITS**

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

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

4) Dike or cover sewers

- Vehicle/Equipment Maintenance/Staging/Washing
- Loading and Unloading of Hazardous Materials

EMERGENCY INCIDENT NOTIFICAT	IONS:  • MCB Quantico Fire Department: 911 • Immediate Supervisor					
FACILITY CONTACT(S):						
Facility Environmental Contact		Title	Phone	Fax		
Shawn Bowman	Deput	ty Superviso	or 703-784-1492	703-784-4841		
NREAB	A PARTIE		703-784-4030	703-784-4953		
SPILL PATHWAY:			the state of the s	Explanation of		
Potential Water Body:	UT to Beaverdam Run/Smith Lake/Aquia Creek/Potomac River					
SPILL RESPONSE EQUIPMENT MATI	ERIALS:					
Absorbent pads and speedy-dry		• Firs	st aid kits			
• Leak detection system (Visual)		• Sho	<ul> <li>Shower Station with Eyewash</li> </ul>			
<ul> <li>Emergency alarm</li> </ul>	<ul> <li>Spill kits and Emergency kits</li> </ul>					
<ul> <li>Fire Extinguishers</li> </ul>		• Tel	ephone Communicatio	ons		
SOURCE CONTROL PROCEDURES:	Proceed	only if prop	erly trained and safe	conditions exist		
1) Stop the flow		5) Cle	anup/recover spill	2		
2) Shut off / extinguish ignition source		6) Arr	ange for proper dispos	al		
3) Contain spill		7) Alv	vays document inciden	nt		
<ul> <li>Fire Extinguishers</li> <li>SOURCE CONTROL PROCEDURES:         <ul> <li>Stop the flow</li> </ul> </li> <li>Shut off / extinguish ignition source</li> </ul>		• Tel  only if prop  5) Cle  6) Arr	ephone Communication of the control	ons conditions exis		

Subject: Standard Operating Procedures - FMS - Guad Maintenance

Revised May 2021

SIG	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

## **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

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

4) Dike or cover sewers

· Loading and Unloading of Hazardous Material

EMERGENCY INCIDENT NOTIFICATI	IONS:		B Quantico Fire Depar nediate Supervisor	tment: 911		
FACILITY CONTACT(S):						
Facility Emergency Coordinator		Γitle	Phone	Fax		
Shawn Bowman	Deputy	Superviso	or 703-784-1492	703-784-4841		
NREAB			703-784-4030	703-784-4953		
SPILL PATHWAY:						
Potential Water Body:	UT to Poto	mac River	r Bight/Potomac River	Limit Licenses		
SPILL RESPONSE EQUIPMENT MATE	RIALS:					
<ul> <li>Absorbent pads and speedy-dry</li> </ul>		• Firs	st aid kits			
<ul> <li>Automatic leak detection system</li> </ul>	<ul> <li>Shower Station with Eyewash</li> </ul>					
<ul> <li>Emergency alarm</li> </ul>		• Spi	Spill kits and Emergency kits			
<ul> <li>Fire Extinguishers</li> </ul>		• Tel	ephone Communicatio	ns		
SOURCE CONTROL PROCEDURES:	Proceed on	ly if prop	erly trained and safe	conditions exist		
1) Stop the flow		5) Cle	anup/recover spill			
2) Shut off / extinguish ignition source		6) Arr	ange for proper dispos	al		
3) Contain spill		7) Alv	vays document inciden	t		

Subject: Standard Operating Procedures - FMS - MAINSIDE STP

Revised May 2021

2101		CARDADAN IN YES	TORE MID IO	Direction of	
Storage Unit	Capacity (gal)	Contents	Secondary Containment	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 Self Contained lockers		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

## **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

Subject: Standard Operating Procedures – FMS – MAINSIDE STP

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

- 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

- 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**

- 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

#### 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.

Subject: Standard Operating Procedures - FMS - Water Treatment Plant

Revised May 2021

## FMS – Water Treatment Plant Building 1303

### **FACILITY OPERATIONS:**

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:

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

EMERGENCY INCIDENT NOTIFICAT	TIONS:	<ul><li>MCB Quantico Fire Department: 911</li><li>Immediate Supervisor</li></ul>			
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 MAT	ERIALS:	17.4	et e ez endab	Olavis Errect	
<ul> <li>Absorbent pads and speedy-dry</li> </ul>		First aid kits			
<ul> <li>Automatic leak detection system</li> </ul>	<ul> <li>Shower Station with Eyewash</li> </ul>				
<ul> <li>Emergency alarm</li> </ul>	<ul> <li>Spill kits and Emergency kits</li> </ul>				
• Fire Extinguishers	<ul> <li>Telephone Communications</li> </ul>				
SOURCE CONTROL PROCEDURES:	<b>Proceed only</b>	if prope	rly trained and safe	conditions exist	
1) Stop the flow		(5) Clear	Cleanup/recover spill		
2) Shut off / extinguish ignition source		6) Arrar	Arrange for proper disposal		
3) Contain spill	y	) Alwa	Always document incident		
4) Dike or cover sewers					

## **Storm Water Pollution Prevention Plan**

MCB Quantico

Subject: Standard Operating Procedures – FMS – Water Treatment Plant Revised May 2021

	SIGNIFICAL	NT MATERIAL INVENTO	DRY AND RESPON	ISE STRATEG	HES
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

ľ	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

Subject: Standard Operating Procedures - FMS - Water Treatment Plant

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

- 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

- 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

#### 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

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
- Fire Extinguishers
- 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

Subject: Standard Operating Procedures - MCCS - Auto Hobby Shop

Revised Nov 2022

SIG	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			

Subject: Standard Operating Procedures – MCCS – Auto Hobby Shop Revised Nov 2022

#### 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 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

- 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

- 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

- 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

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

#### 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**

## 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

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 NOTIFICAT	ONS:  • MCB Quantico Fire Department: 911 • Immediate Supervisor				
FACILITY CONTACT(S):					
Facility Environmental Contact	Tit	le		Phone	Fax
William Snow	Super	visc	r	703-784-5372	3ve 4/-
NREAB	med and and		444	703-784-4030	703-784-4953
SPILL PATHWAY:					
Potential Water Body:	Beaverdam R	un	Smith Lal	ke/Aquia Creek/I	otomac River
SPILL RESPONSE EQUIPMENT MATE	ERIALS:				
<ul> <li>Absorbent pads and speedy-dry</li> </ul>		•	First aid	kits	
Automatic leak detection system	<ul> <li>Shower Station with Eyewash</li> </ul>				vash
Emergency alarm	<ul> <li>Spill kits and Emergency kits</li> </ul>				kits
• Fire Extinguishers	<ul> <li>Telephone Communications</li> </ul>			ns	
SOURCE CONTROL PROCEDURES:	Proceed only	if	properly t	rained and safe	conditions exist
1) Stop the flow		5)	Cleanup/	recover spill	
2) Shut off/extinguish ignition source		6)	Arrange	for proper disposa	al
3) Contain spill		7)	Always	ocument incident	t
4) Dike or cover sewers					

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

Revised May 2021

SIG	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			

Subject: Standard Operating Procedures - G-4 - Fuel Farm Revised May 2021

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

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

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
- 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

- 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

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

#### **AUDITS**

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

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 NOTIFICATIO		• 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 MATER	IALS:	1 2 70 70 7			
<ul> <li>Absorbent pads and speedy-dry</li> </ul>	• First	aid kits			
<ul> <li>Automatic leak detection system</li> </ul>	• Sho	wer Station with Eyew	ash		
Emergency alarm	<ul> <li>Spill kits and Emergency kits</li> </ul>				
<ul> <li>Fire Extinguishers</li> </ul>	• Tele	phone Communication	ns		
SOURCE CONTROL PROCEDURES: P	Proceed only if prope	erly trained and safe	conditions exis		
1) Stop the flow	5) Clea	nup/recover spill			
2) Shut off/extinguish ignition source	6) Arra	ange for proper disposa	ıl		
3) Contain spill	7) Alw	ays document incident			
4) Dike or cover sewers					

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

Revised May 2021

				Direction of	
Storage Unit	Capacity (gal)	Contents	Secondary Containment	Flow & Initial Receptor	Ultimate Receptor
Above Ground Storage Tank	Six 60,000- gallon	Propane	Double wall construction	<del>-</del>	-
Decommissioned Under Ground Storage Tank	6,000- gallon	Decomm- issioned. 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

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

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

- 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

#### OIL WATER SEPARATOR

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

#### VEHICLE/EQUIPMENT STAGING/WASHING

- 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

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

Revised May 2021

• 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

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	July Specific
Kevin Salmon	Work Leader	703-784-2958	
NREAB		703-784-4030	703-784-4953

#### SPILL PATHWAY:

Potential Water Body: UT

UT to Potomac River

#### SPILL RESPONSE EQUIPMENT MATERIALS:

- Absorbent pads and speedy-dry
  - as and speedy-dry
- Spill kits and Emergency kits

Shower Station with Eyewash

• Fire Extinguishers

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
- 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

SIGN	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			

Subject: Standard Operating Procedures - G-4 - 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
- 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

- · 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

• Perform all painting operations inside the paint booth

#### OIL WATER SEPARATOR

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

#### VEHICLE MAINTENANCE/STAGING/WASHING

- · 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

Operator needs to be present throughout the duration of the unloading process

## 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

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	Indiana I-I
NREAB	DOUGLA BY	703-784-4030	703-784-4953

#### **SPILL PATHWAY:**

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

#### SPILL RESPONSE EQUIPMENT MATERIALS:

- Absorbent pads and speedy-dry
- Fire extinguishers
- 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

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

Revised May 2021

SIG	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	

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

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
- 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 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

#### **OUTDOOR PAINTING OPERATIONS**

- 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

- 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

## 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

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:

- Absorbent pads and speedy-dry
- Emergency alarm
- Fire extinguishers
- 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

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	

Subject: Standard Operating Procedures - HMX-1 - Ground Support Equipment 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

#### **OIL WATER SEPARATOR**

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

#### 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
- 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

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	THOSE LIBERTY
NREAB	The state of the s	703-784-4030	703-784-4953

UT to Potomac River

#### **SPILL PATHWAY:** Potential Water Body:

SPILL RESPONSE EQUIPMENT MATERIALS:

Absorbent pads and speedy-dry

- Emergency alarm
- Fire extinguishers
- First aid kits

- Shower station with eyewash
- Spill kits and emergency kits
- Storm sewer mat absorbent covers
- 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 – 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

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

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 shall be conducted for 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

#### **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

#### 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

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

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

Revised May 2021

## HMX-1 – Supply Warehouse Building 2121

#### **FACILITY OPERATIONS:**

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:

- Hazardous Material and Hazardous Waste Storage
- Hazardous Material Unloading

The building floor drains discharge to a permitted outfall (Outfall 018).

#### **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:

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

Telephone communications

First aid 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

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

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

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

- 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

- 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

- · 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**

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

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 NOTIFICAT	IONS:		Quantico Fire Depar liate Supervisor	tment: 911
FACILITY CONTACT(S):				
Facility Emergency Coordinator		Title	Phone	Fax
GySgt. Patrick Riley	Was a deposit of the second se	ronmental ordinator	571-494- 4708/4755	
NREAB			703-784-4030	703-784-4953
SPILL PATHWAY:	Same de la	Land which		
Potential Water Body:	Potomac I	River Bight, P	otomac River	
SPILL RESPONSE EQUIPMENT MATI	ERIALS:			
Absorbent pads and speedy-dry		• Show	er station with eyewa	ash
<ul> <li>Emergency alarm</li> </ul>		• Spill k	kits and emergency k	rits
• Fire extinguishers		<ul> <li>Telepl</li> </ul>	hone communication	ns
<ul> <li>First aid kits</li> </ul>				
SOURCE CONTROL PROCEDURES:	Proceed or	nly if properl	ly trained and safe	conditions exist
1) Stop the flow		5) Clean	up/recover spill	
2) Shut off / extinguish ignition source	ce 6) Arrange for proper disposal			
3) Contain spill	7) Always document incident			
4) Dike or cover sewers				

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

Revised May 2021

SIG	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	

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

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.

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. Scrudders	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
- Fire Extinguishers
- 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
- Arrange for proper disposal

3) Contain spill

7) Always document incident

Subject: Standard Operating Procedures - LAR Motor Pool

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 Subject: Standard Operating Procedures - LAR Motor Pool

### **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
- 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

- 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 connex

### 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

### OIL WATER SEPARATOR

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

### STORM WATER MANAGEMENT BASIN

Inspect the dry pond located behind the building quarterly to ensure that it is functioning properly

### VEHICLE/EQUIPMENT MAINTENANCE/STAGING/WASHING

- Perform all vehicle/equipment maintenance indoors
- Stage vehicle/equipment only on designated and impervious surfaces

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

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 /	Environmental	703-432-1689	
GySgt. Adam Naylor	Coordinator	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

Subject: Standard Operating Procedures - MCAF Fuels

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

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

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.

Subject: Standard Operating Procedures – MCCS – Golf Maintenance

Revised May 2021

# MCCS – Golf Maintenance Building 3063, 3303, 3306

### **FACILITY OPERATIONS:**

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:

- Hazardous Material and Hazardous Waste Storage
- Fuel Dispensing Operations
- Pesticide/Herbicide Applications
- Vehicle/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 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:

- Absorbent pads and speedy-dry
- Automatic leak detection system
- Emergency alarm
- Fire Extinguishers

- 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

Subject: Standard Operating Procedures – MCCS – Golf Maintenance

SIG	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		

Subject: Standard Operating Procedures – MCCS – Golf 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

- 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

- 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

- 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

- 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

- 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**

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

Subject: Standard Operating Procedures – MCCS – Marina

Revised May 2021

# MCCS - 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	rangerol e i
NREAB		703-784-4030	703-784-4953

### SPILL PATHWAY:

Potential Water Body:

Potomac River

### SPILL RESPONSE EQUIPMENT MATERIALS:

- Absorbent pads and speedy-dry
- Leak detection system (Visual)
- **Telephone Communications**
- Fire Extinguishers

- First aid kits
- Eyewash Station
- Spill kits and Emergency kits

### **SOURCE CONTROL PROCEDURES:**

### Proceed only if properly trained and safe conditions exist

- 1) Stop the flow
- 2) Shut off / extinguish ignition source
- 5) Cleanup/recover spill

- 6) Arrange for proper disposal

3) Contain spill

7) Always document incident

Subject: Standard Operating Procedures - MCCS - Marina

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

Subject: Standard Operating Procedures – MCCS – Marina

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

- 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**

- 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**

- 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

Conduct all painting operations inside

### 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

Subject: Standard Operating Procedures - MCCS - 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.

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

# 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.

EMEDOENION	THEFT	NOTIFICATIONS
EMERGENCY	INCIDENT	<b>NOTIFICATIONS:</b>

- 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:

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19 (19 ) 18 (19 (19 (19 (19 (19 (19 (19 (19 (19 (19		(大工力)、公司、有人	

### UT to Potomac River

### SPILL RESPONSE EQUIPMENT MATERIALS:

- Absorbent pads and speedy-dry
- Leak detection system (Visual)
- Emergency alarm
- Fire Extinguishers

- 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

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	

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

### **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

### OIL WATER SEPARATOR

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

### 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

### WATERCRAFT/EQUIPMENT MAINTENANCE/STAGING/WASHING

- 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**

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

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	a male	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
- Automatic leak detection system
- Emergency alarm
- Fire Extinguishers

- 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

Subject: Standard Operating Procedures - MCSC - TDSA

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

Subject: Standard Operating Procedures – MCSC – TDSA

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 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**

- 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

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

### VEHICLE/EQUIPMENT MAINTENANCE/STAGING/WASHING

- 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**

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

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	THERE SOME THE	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**

**SOURCE CONTROL PROCEDURES:** 

Shower Station with Eyewash

Emergency alarm

Spill kits and Emergency kits

Fire Extinguishers

### 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

Subject: Standard Operating Procedures - NREA - HWSF

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

Subject: Standard Operating Procedures – NREA – HWSF 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 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

- 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**

- 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

- 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

- Implement the Base Pesticide Management Plan and Base Nutrient Management Plan
- Follow EPA label recommendations
- Only apply during dry weather conditions

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
- **Telephone Communications**
- Emergency alarm

- First aid kits
  - **Eyewash Station**
  - Spill kits and Emergency kits

# • Fire Extinguishers

#### 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

Subject: Standard Operating Procedures - TBS - Armory

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

Subject: Standard Operating Procedures – TBS – Armory

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

- 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

- 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

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

### STORM WATER MANAGEMENT BASIN

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

### **AUDITS**

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

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	CALL THE STATE OF ALCOHOL	703-784-4030	703-784-4953

### SPILL PATHWAY:

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

### SPILL RESPONSE EQUIPMENT MATERIALS:

- Absorbent pads and speedy-dry
- Leak detection system (Visual)
- Emergency alarm
- Fire Extinguishers

- 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
- ce
- 5) Cleanup/recover spill

3) Contain spill

6) Arrange for proper disposal

4) Dike or cover sewers

7) Always document incident

Subject: Standard Operating Procedures - TBS - Motor Transport 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	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

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

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

Subject: Standard Operating Procedures - TBS - PM Shop

Revised May 2021

# TBS – PM Shop Building 24101

### **FACILITY OPERATIONS:**

TBS PM Shop is located in Building 24101. The industrial storm water pollutant source activity performed in this area includes:

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

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EMERGENCY	INCIDENT	NUTHER	TILLING:

- 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:

- Absorbent pads and speedy-dry
- Fire Extinguishers

- Telephone Communications
  - Spill kits and Emergency kits

First aid 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

Subject: Standard Operating Procedures - TBS - PM Shop

SIG.	NIFICANT MA  Capacity (gal)	TERIAL INVEN	Secondary Containment	Direction of Flow & Initial Receptor	EGIES  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

Subject: Standard Operating Procedures – TBS – PM Shop

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

- 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

- 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

### VEHICLE MAINTENANCE/STAGING/WASHING

- 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**

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

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.			

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

### SPILL RESPONSE EQUIPMENT MATERIALS:

- Absorbent pads and speedy-dry
- Automatic leak detection system
- Emergency alarm
- Fire Extinguishers

- 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

- 5) Cleanup/recover spill
- 6) Arrange for proper disposal
- 7) Always document incident

Subject: Standard Operating Procedures - TBS - Power Plant

Revised May 2021

SIGN	NIFICANT M	IATERIAL INVEN	NTORY AND R	ESPONSE STRAT	EGIES
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

Subject: Standard Operating Procedures - TBS - Power Plant

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

- 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

- 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**

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

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:

- 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:
LIVILLICI	TI I CID LI I	TIOTITICITIES.

- 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:

- Absorbent pads and speedy-dry
- Automatic leak detection system
- Emergency alarm
- Fire extinguishers

- First aid kits
- Shower station with eyewash
- Spill kits and emergency kits
- Telephone communications

# SOURCE CONTROL PROCEDURES: Proceed

## 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

Subject: Standard Operating Procedures – WTBN

Revised May 2021

	Capacity	_	Secondary	Direction of Flow & Initial	Ultimate
Storage Unit	(gal)	Contents	Containment	Receptor	Receptor
Hazardous Material Storage	55-gallon drums	Antifreeze, Degreasers, Greases, Oils, Paint, Solvents	Conex and flammable lockers	Self Contained	Potomac River
Hazardous Waste Storage	Used Rafferies		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-gallor		Diesel	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank 250-gallor		Gasoline	Double wall construction	Self Contained	Potomac River
Above Ground Storage Tank			I I	Self Contained	Potomac River
Above Ground Storage Tank	100-galion	Diesel	Double wall construction	Self Contained	Potomac River

Subject: Standard Operating Procedures – WTBN

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

- 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**

- 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**

- 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

- 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

- 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**

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

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

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

Form 2C NPDES	9	EPA	• •	cation for NP	DES Perm	Protection Ag	e Wastewate		ATIONO
			EXISTING MANUFACT	URING, COMI	VIERCIAL,	MINING, AND	SILVICULTU	IRE OPER	AHONS
SECTIO			TION (40 CFR 122.21(g)(1))	16 16 5 31					
	1.1		rmation on each of the facility's	outfalls in the	table belo	W. Zavoro a rakskiko (d.	a trubbin bus <sup>11</sup>		e tin sinasani. Pata
ation		Outfall Number	Receiving Water Name		Latitude			Longitude	
			See enclosed Table 2C.1.1	0	,	"	a	,	n
Outfall Location				۰	,	,,	0	,	"
				a	,	"	D.	,	n
SECTION	N 2. LINE	DRAWING (4	40 CFR 122.21(g)(2))						
Line Drawing	2.1		tached a line drawing to this ap ee instructions for drawing requ						ater
SECTION	N 3. AVE	RAGE FLOW	S AND TREATMENT (40 CFR	122.21(a)(3))					
	3.1		Ifall identified under Item 1.1, p			treatment infor	mation. Add a	dditional st	neets if
		nedecosary.		**Outfall Num	ıber**				
			ndravarne se a se se en anterior automobiles des his d'autorisations de la company de la company de la company	Operations Co	Control of the Control of Control	to Flow	u kati ga gata kasi saa igi katalis sa		
			Operation				Average Flo	W	
			See enclosed Table 2C.3.1						mgd
atmen									mgd
d Tre									mgd
ws an									mgd
윤		and the second of the second of the first		Treati	nent Units	com a deponante que a como de la	constant man provide		Same and the state of the state
Average Flows and Treatment		(include s	Description size, flow rate through each tre retention time, etc.)	atment unit,		Code from Table 2C-1		Disposal of Wastes County Discharge	Other Than
					1				

EPA	Identificati	on Number	NPDES Permit Number	<u> </u>	Facility Name	Form Approved 03/05/19						
:	1100700	01339	VA0002151	Marine 0	Corps Base Quantico	OMB No. 2040-0004						
	3.1		**Outfall Number**									
	cont.	Operations Contributing to Flow Operation Average Flow										
		8/10/14/8/12/13/14/19/14/14/14/14/14/14/14/14/14/14/14/14/14/	See enclosed Table 2C.3.1	ot a kina indira	Average Flow mgd							
9V.019609			See entrosed Table 20.3.1									
						mgd						
						mgd						
						mgd						
				Treatment	Units							
7.		(include :	Description size, flow rate through each treatmen retention time, etc.)	t unit,	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge						
Average Flows and Treatment Continued												
id Treatme			**Outf	all Number*								
fs af		et ek stativ ja uji sej suvju a jile jih a		ions Contrib	uting to Flow							
FIO			Operation		Av	erage Flow						
rage			See enclosed Table 2C.3.1			mgd						
Ave						mgd						
						mgd						
						mgd						
				Treatment	Units							
		(include s	Description size, flow rate through each treatment retention time, etc.)	t unit,	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge						
System Users	3.2	Are you appl	ying for an NPDES permit to operate	· · _	wned treatment works?  ✓ No → SKIP to Sec	ction 4.						
Sys	3.3	Have you att	ached a list that identifies each user o	_	ent works?	•						
		100		L								

EPA Identification Number NPDES Permit Number Facility Name Form Approved 03/05/19 OMB No. 2040-0004 110070001339 VA0002151 Marine Corps Base Quantico SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4)) Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? No → SKIP to Section 5. ✓ Yes 4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary. Flow Rate Frequency Outfall Operation Long-Term Maximum Duration Average Average Number (list) Days/Week Months/Year Average Daily days/week months/year mgđ mgd days see Table 2C.4.2 Intermittent Flows days/week months/year days mgd mgd days/week months/year mgd mgd days days/week months/year mgd days days/week months/year days mgd mgd months/year days days/week mgd mgd **SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))** Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? 5.1 No → SKIP to Section 6.  $\square$ Provide the following information on applicable ELGs. 5.2 Applicable ELGs **ELG Category ELG Subcategory** Regulatory Citation 5.3 Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? No → SKIP to Section 6. Production-Based Limitations Provide an actual measure of daily production expressed in terms and units of applicable ELGs. 5.4 Unit of Outfall **Quantity per Day** Operation, Product, or Material Number Measure

EPA	EPA Identification Number NPDES Permit Number		1	Facility Name Form Approved				
;	1100700	01339	VA0002151	Marir	ne Corps Ba	ase Quantico	0	MB No. 2040-0004
SECTIO	N 6. IMP	ROVEMENTS	(40 CFR 122.21(g)(6))					, ,
	6.1	upgrading, or	ently required by any federal, so operating wastewater treatme charges described in this appli	ent equipment o	r practices		ıvironmental prograı	
	~ ~			a tabla balan		U - SKIF WI	em v.s.	
ats:	6.2	briefly identify	y each applicable project in the	Affected	88 Julie		Final Comp	liance Dates
еше		Brief Identii	ication and Description of	Outfalls		Source(s) of	7 mar Comp	hunce Buies
S C			Project	(list outfall number)	down diddiladir	Discharge	Required	Projected
Upgrades and Improvements						MANAGEMENT T		
	6.3	that may affe	ached sheets describing any act your discharges) that you no	ow have underw		ned? (optional i	tem)	ntal projects
		Yes	─ ITAKE CHARACTERISTICS (	No		[✓	Not applicable	
		A. Conventions	cants need to complete each ta al and Non-Conventional Pol esting a waiver from your NPD	llutants	uthority for		f the Table A polluta	nts for any of
	7.2	If yes, indicate	e the applicable outfalls below	. Attach waiver r	equest and	d other required	d information to the	application.
		Outfa	ll Number	Outfall Nur	mber	_	Outfall Number	
Effluent and Intake Characteristics	7.3		npleted monitoring for all Table d attached the results to this a		ge? No;	a waiver has t	een requested from	my NPDES
Shar	Table E	⊥ 3. Toxic Metals	, Cyanide, Total Phenols, an	nd Organic Toxi			y for all pollutants at	ali Outialis.
d Intake (	7.4	Do any of the listed in Exhib	facility's processes that contri it 2C-3? (See end of instruction	bute wastewate	r fall into or	ne or more of th		categories
ıt an		Yes				→ SKIP to Iter		
Effluer	7.5	Have you che	cked "Testing Required" for al	Il toxic metals, c	/anide, and No	total phenois	in Section 1 of Table	e B?
	7.6	List the applic in Exhibit 2C-	able primary industry categori 3.	es and check th	e boxes inc			
			Primary Industry Category	:			GC/MS Fraction(s) applicable boxes.)	
					□ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide
					□ Volatile	e □ Acid	☐ Base/Neutral	☐ Pesticide
					□ Volatile	☐ Acid	□ Base/Neutral	□ Pesticide

EPA	Identification	n Number	NPDES Permit Number	cility Name	Form Approved 03/05/19	
1	1007000	1339	VA0002151	Marine Cor	ps Base Quantico	OMB No. 2040-0004
	7.7		ecked "Testing Required" for all requi ons checked in Item 7.6?	red pollutants i	n Sections 2 through	5 of Table B for each of the
		☐ Yes			No	
	7.8		ecked "Believed Present" or "Believed g is not required?	d Absent" for al	I pollutants listed in S	ections 1 through 5 of Table B
		✓ Yes	,		No	
	7.9	required or (2	ovided (1) quantitative data for those \$ 2) quantitative data or other required i "Believed Present" in your discharge	nformation for		
		☐ Yes		<u> </u>	No	
	7.10	Does the app	olicant qualify for a small business exe	emption under	the criteria specified i	n the instructions?
pe		☐ Yes →	Note that you qualify at the top of Tathen SKIP to Item 7.12.	ble B, ☑	No	
Effluent and Intake Characteristics Continued	7.11	determined to	ovided (1) quantitative data for those sesting is required or (2) quantitative du have indicated are "Believed Preser	ata or an expla	nation for those Sect	
rist	T-bl- C		meticust and Man Commenticust D	استا د د داشته دااد	TNO	ing a second and a second a second and a second a second and a second
acte	7.12		ventional and Non-Conventional Pricated whether pollutants are "Believe		"Paliayad Abcant" for	all pollutants listed on Table C
Char	7.12	for all outfalls		eu Present of	No	an pondiants listed of Table C
tak	7.13		npleted Table C by providing (1) quan	atitotivo data fo		t are limited either directly or
ıt and In	7.13		n ELG and/or (2) quantitative data or			
i i		✓ Yes			No	
盂	Table D	. Certain Haza	ardous Substances and Asbestos			
	7.14	Have you ind all outfalls?	icated whether pollutants are "Believe	ed Present" or '	"Believed Absent" for	all pollutants listed in Table D for
		✓ Yes			No	
	7.15		npleted Table D by (1) describing the oviding quantitative data, if available?		pplicable pollutants a	re expected to be discharged
		☐ Yes		$\checkmark$	No	
	Table E	. 2,3,7,8-Tetra	chlorodibenzo-p-Dioxin (2,3,7,8-TC	DD)	文字字号字字子。 1 b	
	7.16		lity use or manufacture one or more or reason to believe that TCDD is or ma			d in the instructions, or do you
MARKET.		☐ Yes →	Complete Table E.	✓	No → SKIP to Sec	tion 8.
19.00	7.17	Have you cor	mpleted Table E by reporting <i>qualitati</i>	ve data for TCI	DD?	•
		☐ Yes			No	
SECTION	N 8. USE	D OR MANUF	ACTURED TOXICS (40 CFR 122.21(	g)(9))		
þe	8.1		nt listed in Table B a substance or a date or final product or byproduct?	component of a	a substance used or r	nanufactured at your facility as
ţ.		☐ Yes		$\checkmark$	No → SKIP to Se	ection 9.
nfac	8.2	List the pollut	ants below.			
Used or Manufactured Toxics		1.	4.		7.	
sed o		2.	5.		8.	
7		3.	6,		9.	

EP	EPA Identification Number 110070001339		NPDES Permit Number VA0002151 Ma			Facility Nam		Form Approved 03/05/19 OMB No. 2040-0004	
						Corps Base	Quantico		
	ON 9. BIQ 9.1	Do you have	any knowle		that any bio arges or (2)	on a recei		chronic toxicity has been made relation to your discharge?	
Fest	9.2	Identify the te	sts and the	ir purposes below.		<del></del>			
xicity		Test		Purpose of Test(s		Submitted ermitting	to NPDES Authority?	Date Submitted	
Biological Toxicity Tests						□ Yes	□ No		
Biolo						□ Yes	□ No		
						☐ Yes	□ No		
SECTIO	ON 10. CC	NTRACT ANA	LYSES (40	CFR 122.21(g)(12))					
	10.1	Were any of t	he analyses	reported in Section 7 pe	rformed by	a contract	aboratory or	consulting firm?	
		✓ Yes				☐ No •	→ SKIP to Se	ection 11.	
	10.2	Provide inform	nation for ea	ach contract laboratory or					
		11		Laboratory Number	r1	Laborato	y Number 2	Laboratory Number 3	
		Name of labo	ratory/firm	Universal Laboratories					
Contract Analyses		Laboratory ad	ldress	20 Research Dr Hampton, VA 23666					
T S		Phone number	r	(800) 695-2162					
		Pollutant(s) ar	nalyzed	All except pH, Total Resi Chlorine, and Temperat	<b>I</b>				
SECTIO	N 11 ΔD	DITIONAL INC	DEMATION	(40 CFR 122.21(g)(13))					
OLOTIC	11.1			g authority requested add	ditional info	mation?			
<u> </u>		☐ Yes	- r	J	_		➤ SKIP to Se	ection 12.	
mati	11.2	List the inform	ation reque	sted and attach it to this	application.				
ıal İnfo		1.			4	1.			
Additional Information		2.				5.			
~		3.			(	6.			

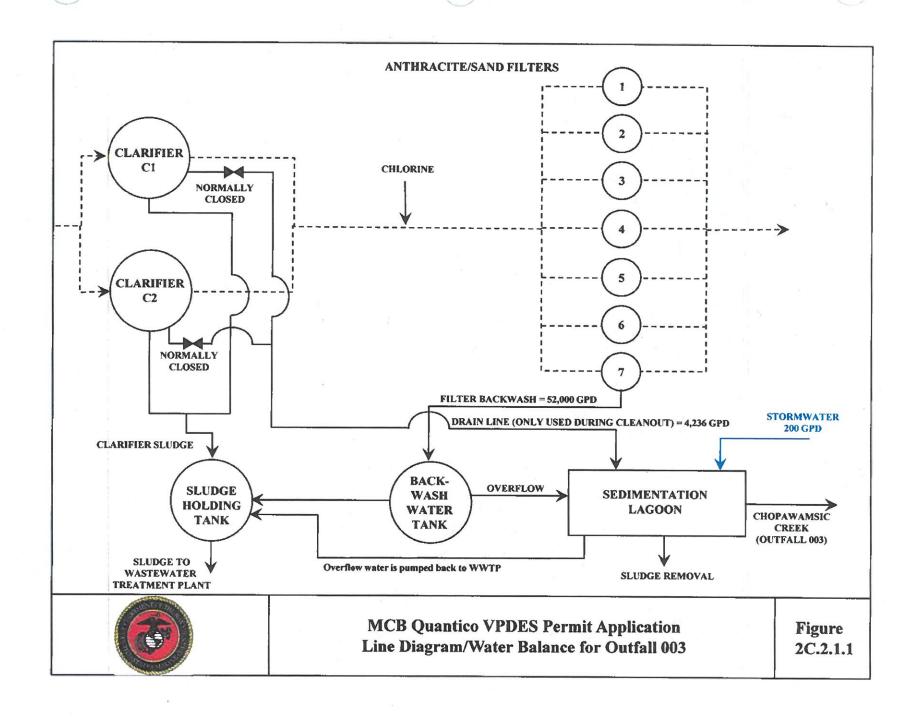
EPA Identification Number NPDES Permit Number Facility Name Form Approved 03/05/19
110070001339 Marine Corps Base Quantico

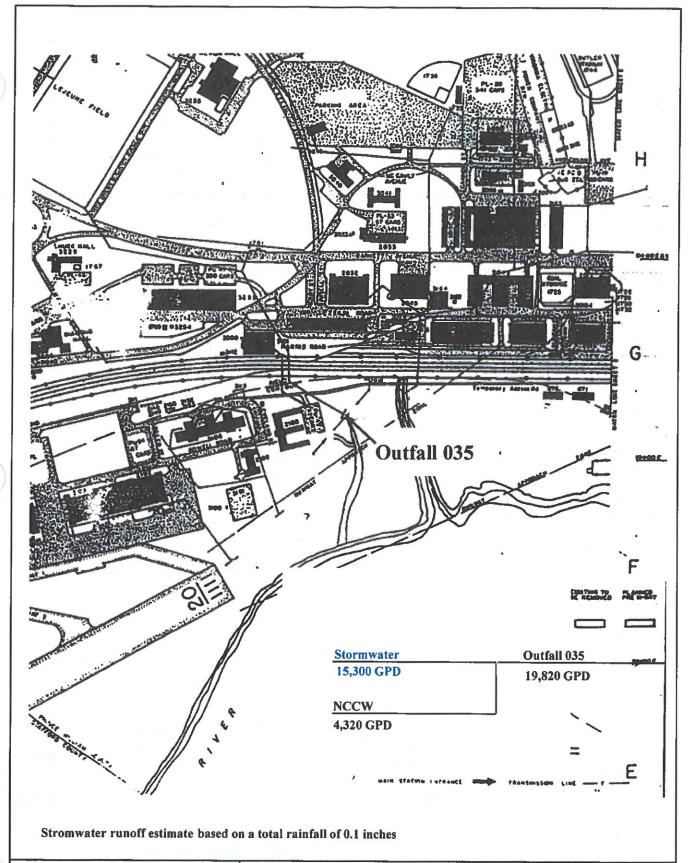
SECTION	112 CH	ECKI	IST AND CERTIFICATION STATEM	ENT (	40 CER 122 22(a) and (d))					
	12.1	In C For	olumn 1 below, mark the sections of leach section, specify in Column 2 and not all applicants are required to com	Form 2 y attac	2C that you have completed an hments that you are enclosing	to alert the				
			Column 1	1, Kuliya 1, Kuliya 1, Kuliya	Column 2					
		Section 1: Outfall Location			w/ attachments					
		V	Section 2: Line Drawing	V	w/ line drawing	A	w/ additional attachments			
		Ŕ	Section 3: Average Flows and Treatment		w/ attachments		<ul> <li>w/ list of each user of privately owned treatment works</li> </ul>			
			Section 4: Intermittent Flows		w/ attachments					
			Section 5: Production		w/ attachments					
			Section 6: Improvements		w/ attachments		w/ optional additional sheets describing any additional pollution control plans			
		<b>A</b>			w/ request for a waiver and supporting information		w/ explanation for identical outfalls			
emen			0 4 7 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7		w/ small business exemption request		w/ other attachments			
ın Sta			Section 7: Effluent and Intake Characteristics	×	w/ Table A	肉	w/ Table B			
ficatio					w/ Table C	E	w/ Table D			
Certi					w/ Table E		w/ analytical results as an attachment			
st and			Section 8: Used or Manufactured Toxics		w/ attachments					
Checklist and Certification Statement			Section 9: Biological Toxicity Tests		w/ attachments	·····				
, o		Ø	Section 10: Contract Analyses	囡	w/ attachments	MATTER S				
			Section 11: Additional Information		w/ attachments					
		Ø	Section 12: Checklist and Certification Statement		w/ attachments					
	12.2	Cerl	tification Statement							
		acco subi resp acco	rtify under penalty of law that this doc ordance with a system designed to as mitted. Based on my inquiry of the pe nonsible for gathering the information, urate, and complete. I am aware that sibility of fine and imprisonment for kn	sure ti rson o the in there a	hat qualified personnel proper r persons who manage the sy formation submitted is, to the are significant penalties for sui	ly gather and stem, or thos best of my kr	l evaluate the information he persons directly nowledge and belief, true,			
		Nan	ne (print or type first and last name)			Official title				
		,	241-2 011010	~			RONMENTAL			
			DALTER CHRIS	76	その印と	Date signed	L <del>EC.70</del> R			
		J.9'					21215			

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

A. Outfall	E Commence	B. Latitude	)	(	Longitud	le	
Number (List)	1. Deg.	2. Min	3. Sec.	1. Deg.	2. Min.	3. Sec.	D. Receiving Water (Name)
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

<sup>\*</sup> No required monitoring on outfall







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

	2. Operations (s) Cor	Treatment		
1. Outfall No. (list)	a. Operation (list)	b. Average Flow (gallons per day)	a. Description	b. List Codes from Table 2C-1
	Mainside WTP <sup>1</sup>			
003	a. Clarifier (2) Blowdown	4,236	1,2	U,E
•••	b. Backwashing of 7 dual media filters	52,000	1	Ü
	c. Stormwater	200	1	Ū
	NCO Swimming Pool		,	
009	a. Annual Pool Draining <sup>2</sup>	70,000	2	E
	b. Stormwater	100	4	Ā
	Mainside Drainage - North			
010	b. Stormwater	310,000	4	Α
	c. NCCW	12,000	4	Α
	HMX-1 Hangars and Maintenance			
014	a. Mechanical Room	1,000	4	Α
	b. Stormwater	91,000	4	A
	Mainside Drainage-South			
016	a. Stormwater	760,000	1	Н
010	c. NCCW <sup>3</sup>	720	4	A
	d. Water softener backwash, CHP	71		
	HMX-1 Airfield BOQ			
035	b. Stormwater	15,300	4	A
	c. NCCW	4,320	4	Ā

No regular discharge from this outfall as a result of water treatment plant operations has occurred since June 1997.

Notes:

<sup>&</sup>lt;sup>2</sup> Backwaste/Waste piping has been changed since the last permit issuance and all discharge is directed toward sanitary sewer and the Mainside Sewage Treatment Plant.

<sup>&</sup>lt;sup>3</sup> NCCW is discharged May through September each year.

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

System Stransmin	- PALSON AND THE	<b>T</b>	· · · · · · · ·	<del></del>
	c. DURATION (in days)	dic	=	182
JME (specific	2. MAXIMUM DAILY	.v. Verv spora		0.13 maai
4. FLOW b. TOTAL VOLUME (specific with units)	1. LONG TERM AVERAGE	e to an emergence	Approximately 750,000	0.13 maai
a. FLOW RATE (mgd)	2. MAXIMUM DAILY	accept flow due	Flow rate hetd constant at 0.07 mgd	0.0007
	1. LONG TERM AVERAGE	WWTP can not	Flow rate het 0.07	0.0007
3. FREQUENCY a. DAYS PER b. MONTHS PER	VEEK (specific average) average)	Only discharges when WWTP can not accept flow due to an emergency. Very snoradic	7 days/week 0.37 month/year	6 month/year
3. FRE a. DAYS PER	WEEK (specific average)	Only	7 days/we	7 days/week
2. OPERA	FLOW (LIST)	Filter Backwash water/clarifier cleaning	NCO Swimming Pool - drained annually at season end in September	Non-Contact Cooling Water
1. OUTFALL NUMBER	(list)	003	600	016

Form 2C Attachments MCB Quantico VPDES Permit Application VPDES Permit No. VA0002151

TAE	BLE A. CONVENTIONAL AND N	ON CONVEN	TIONAL POLLUTAN	ITS (40 CF	R 122,21(g)(7)(i	ii)) ¹	***************************************		l į	
						Effl	uent		Inta (Optio	
	Pollutant	Waiver Requested (if applicable)	Units (specify)		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 have applied	to your NPDF	ES permitting authorit	ty for a wai	ver for <i>all</i> of the p	ollutants listed on t	his table for the no	oted outfall.		
1.	Biochemical oxygen demand		Concentration		No Discharge					
	(BOD <sub>5</sub> )	ļl	Mass							
2.	Chemical oxygen demand		Concentration							
	(COD)		Mass				-			
3.	Total organic carbon (TOC)		Concentration							
Ŭ.	Total organic carbon (100)		Mass							
4.	Total suspended solids (TSS)		Concentration		***************************************					
7'	Total suspended solids (TOS)	<b>LJ</b>	Mass							
5,	Ammonia (as N)		Concentration							
Ŭ,	Allinonia (as 14)	LJ	Mass			"				
6.	Flow		Rate							
7.	Temperature (winter)		°C	°C						
	Temperature (summer)		°C	°C						
8.	pH (minimum)		Standard units	s.u.						
0.	pH (maximum)		Standard units	s.u.						

<sup>&</sup>lt;sup>1</sup> 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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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122,21(g)(7)	)(v)) <sup>1</sup>				
			Presence	or Absence ck one)			and seems to see a	uent			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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 sm 2 through 5 of this table. Note, ho	nall business owever, that	per the instr you must stil	uctions to For I indicate in th	rm 2C and, therefore, do not be appropriate column of this	need to submit table if you bel	quantitative da ieve any of the	ta for any of the pollutants listed	organic toxic are present i	pollutants i n your disch	n Sections arge.
Section	on 1. Toxic Metals, Cyanide, and	Total Phene	ols	::::					7		
1.1	Antimony, total (7440-36-0)			V	Concentration Mass	7		· · · · · · · · · · · · · · · · · · ·			
1.2	Arsenic, total (7440-38-2)			V	Concentration Mass						
1.3	Beryllium, total (7440-41-7)			Ø	Concentration Mass						
1.4	Cadmium, total (7440-43-9)			Ø	Concentration Mass						
1.5	Chromium, total (7440-47-3)			Ø	Concentration  Mass						***************************************
1.6	Copper, total (7440-50-8)			<b>7</b>	Concentration Mass						
1.7	Lead, total (7439-92-1)			7	Concentration Mass		-				
1.8	Mercury, total (7439-97-6)			Ø	Concentration Mass						
1.9	Nickel, total (7440-02-0)			Ø	Concentration  Mass						
1.10	Selenium, total (7782-49-2)				Concentration  Mass						
1.11	Silver, total (7440-22-4)			Ø	Concentration  Mass			PIN.			

			-								
TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CFI	R 122.21(g)(7)	(v))¹				
				or Absence ck one)			Efflue	nt			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Monthly	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)			Ø	Concentration  Mass						
1.13	Zinc, total (7440-66-6)			<b>7</b>	Concentration Mass						
1.14	Cyanide, total (57-12-5)			<b></b>	Concentration Mass				· · · · · · · · · · · · · · · · · · ·		
1.15	Phenois, total			Ø	Concentration Mass	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************			***************************************	
Section	on 2. Organic Toxic Pollutants (G	C/MS Fracti	on—Volatil	e Compound	1 1						
2.1	Acrolein (107-02-8)			Ø	Concentration Mass						
2.2	Acrylonitrile (107-13-1)			<b>V</b>	Concentration Mass		TTARAMA MARIA MARI	DAYMANAY L			
2.3	Benzene (71-43-2)			<b></b>	Concentration Mass						
2.4	Bromoform (75-25-2)			<b>7</b>	Concentration  Mass						
2.5	Carbon tetrachloride (56-23-5)				Concentration  Mass						
2.6	Chlorobenzene (108-90-7)			Ø	Concentration  Mass			717-2000			
2.7	Chlorodibromomethane (124-48-1)			<b>7</b>	Concentration  Mass						
2.8	Chloroethane (75-00-3)			Ø	Concentration  Mass	***************************************		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

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			and the second second	or Absence ck one				Efflu	<b>Jent</b>			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			Ø	Concentration  Mass							
2.10	Chloroform (67-66-3)			Ø	Concentration  Mass							
2.11	Dichlorobromomethane (75-27-4)			Ø	Concentration Mass							
2.12	1,1-dichloroethane (75-34-3)			Ø	Concentration Mass							
2.13	1,2-dichloroethane (107-06-2)			Ø	Concentration Mass				76.444.46	- TATALOG .		
2.14	1,1-dichloroethylene (75-35-4)			Ø	Concentration  Mass				***************************************			
2.15	1,2-dichloropropane (78-87-5)			Ø	Concentration Mass	·						
2.16	1,3-dichloropropylene (542-75-6)			<b>V</b>	Concentration Mass							
2.17	Ethylbenzene (100-41-4)			Ø	Concentration Mass							
2.18	Methyl bromide (74-83-9)			Ø	Concentration Mass				***			
2.19	Methyl chloride (74-87-3)			Ø	Concentration Mass							
2.20	Methylene chloride (75-09-2)			Ø	Concentration Mass				, , , , , , , , , , , , , , , , , , , ,			
2.21	1,1,2,2- tetrachloroethane (79-34-5)			Ø	Concentration Mass							

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	1100/0001339	VAUC	002151	l IVI	irine Corps Base Quantico		003			5111511	o. 20 10 000 1
TABL	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122.21(g)(7)	(v))¹				
			Presence	or Absence ck one)			Effli	ient			t <b>ake</b> ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass						
2.23	Toluene (108-88-3)			<b>7</b>	Concentration Mass						
2.24	1,2-trans-dichloroethylene (156-60-5)			Ø	Concentration Mass		***************************************				
2.25	1,1,1-trichloroethane (71-55-6)			Ø	Concentration Mass			***************************************			
2.26	1,1,2-trichloroethane (79-00-5)			Ø	Concentration Mass						
2.27	Trichloroethylene (79-01-6)			Ø	Concentration Mass						
2.28	Vinyl chloride (75-01-4)			Ø	Concentration Mass						
Section	on 3. Organic Toxic Pollutants (	GC/MS Fract	ion—Acid (	Compounds)				. Carterior and the con-	l		
3.1	2-chlorophenol (95-57-8)			Ø	Concentration Mass						
3.2	2,4-dichlorophenol (120-83-2)			Ø	Concentration Mass						
3.3	2,4-dimethylphenol (105-67-9)			Ø	Concentration Mass						
3.4	4,6-dinitro-o-cresol (534-52-1)				Concentration Mass	***************************************		773000000000000000000000000000000000000			
3.5	2,4-dinitrophenol (51-28-5)			Ø	Concentration Mass						***************************************

TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122,21(g)(7)	(v)) <sup>1</sup>				
			Presence	or Absence	agraeut fatty egyala egyalaste et til egyalaste og alleg egyalaste			uent		lni	take
			, (one	ik Offe)			Priesta de Artin	uent			tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge	Number of Analyses	Long- Term Average Value	Number of Analyses
	2-nitrophenol				Concentration	1		(if available)			
3.6	(88-75-5)			Ø	Mass						
3.7	4-nitrophenol				Concentration						
J.1	(100-02-7)			<u> </u>	Mass						
3.8	p-chloro-m-cresol			abla	Concentration						
	(59-50-7)	ļ <del>'</del>		1	Mass						
3.9	Pentachlorophenol			V	Concentration				******		
	(87-86-5)				Mass						
3.10	Phenol			V	Concentration						
	(108-95-2)				Mass						
3,11	2,4,6-trichlorophenol			<b>7</b>	Concentration						
	(88-05-2)				Mass						
Section	on 4. Organic Toxic Pollutants (0	SC/MS Fract	ion-Base /	Neutral Com		1		<u> </u>	<u>(                                    </u>		<u> </u>
4.1	Acenaphthene (83-32-9)			abla	Concentration  Mass						
	· · · · · · · · · · · · · · · · · · ·				Concentration						
4.2	Acenaphthylene (208-96-8)			✓	Mass						
	Anthracene				Concentration						
4.3	(120-12-7)			<b>✓</b>	Mass						
	Benzidine				Concentration						
4.4	(92-87-5)			☑	Mass						
1 5	Benzo (a) anthracene		r		Concentration						
4.5	(56-55-3)			Ø	Mass				<u> </u>		
4.6	Benzo (a) pyrene			Ø	Concentration						
4.0	(50-32-8)				Mass						

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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	Presence	ORGANIC T or Absence ck one)	OXIC POLLUTANTS (40 CF	R 122.21(g)(7)	(v))¹ Effli	ıen <b>t</b>		lni (op	take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass						
4.8	Benzo (ghi) perylene (191-24-2)			Ø	Concentration Mass						
4.9	Benzo (k) fluoranthene (207-08-9)			Ø	Concentration Mass						
4.10	Bis (2-chloroethoxy) methane (111-91-1)			Ø	Concentration Mass						
4.11	Bis (2-chloroethyl) ether (111-44-4)			Ø	Concentration Mass	Acres of Falls					
4.12	Bis (2-chloroisopropyl) ether (102-80-1)			Ø	Concentration Mass						:
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)			Ø	Concentration Mass						
4.14	4-bromophenyl phenyl ether (101-55-3)			Ø	Concentration Mass						
4.15	Butyl benzyl phthalate (85-68-7)			Ø	Concentration Mass						
4.16	2-chloronaphthalene (91-58-7)			<b>7</b>	Concentration Mass						
4.17	4-chlorophenyl phenyl ether (7005-72-3)			Ø	Concentration Mass			,			
4.18	Chrysene (218-01-9)			Ø	Concentration Mass						
4.19	Dibenzo (a,h) anthracene (53-70-3)			Ø	Concentration Mass	nawana.					

				or Absence ck one)			Effli	uent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass						
4.21	1,3-dichlorobenzene (541-73-1)			Ø	Concentration Mass						
4.22	1,4-dichlorobenzene (106-46-7)			Ø	Concentration Mass						
4.23	3,3-dichlorobenzidine (91-94-1)			<b></b>	Concentration Mass	-					
4.24	Diethyl phthalate (84-66-2)			<b>7</b>	Concentration Mass						
4.25	Dimethyl phthalate (131-11-3)			<b>7</b>	Concentration Mass						
4.26	Di-n-butyl phthalate (84-74-2)			Ø	Concentration Mass						
4.27	2,4-dinitrotoluene (121-14-2)			Ø	Concentration Mass						
4.28	2,6-dinitrotoluene (606-20-2)			Ø	Concentration Mass						
4.29	Di-n-octyl phthalate (117-84-0)			7	Concentration Mass	· · · · · · · · · · · · · · · · · · ·					
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)			Ø	Concentration Mass		-				
4.31	Fluoranthene (206-44-0)			Ø	Concentration Mass		***************************************				
4.32	Fluorene (86-73-7)			Ø	Concentration  Mass						

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1,700	E B. TOXIC METALS, CYANIDE,		Presence	or Absence ck one)		122.21(g)(1)		uent		int (opt	a <b>ke</b> ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specity)	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)			Ø	Concentration Mass			· · · · · · · · · · · · · · · · · · ·			
4.34	Hexachlorobutadiene (87-68-3)			Ø	Concentration Mass						
4.35	Hexachlorocyclopentadiene (77-47-4)			Ø	Concentration Mass						
4.36	Hexachloroethane (67-72-1)			Ø	Concentration Mass						
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)			Ø	Concentration Mass						
4.38	Isophorone (78-59-1)			<b></b>	Concentration Mass		A CONTRACTOR OF THE CONTRACTOR				
4.39	Naphthalene (91-20-3)			Ø	Concentration Mass						
4.40	Nitrobenzene (98-95-3)			<b></b>	Concentration Mass		***************************************			110000000000000000000000000000000000000	
4.41	N-nitrosodimethylamine (62-75-9)			Ø	Concentration Mass						
4.42	N-nitrosodi-n-propylamine (621-64-7)			Ø	Concentration Mass						
4.43	N-nitrosodiphenylamine (86-30-6)			7	Concentration Mass						
4.44	Phenanthrene (85-01-8)			Ø	Concentration Mass						
4.45	Pyrene (129-00-0)			Ø	Concentration Mass						

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TABL	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122,21(g)(7)	(v)) <sup>1</sup>			
:			Presence	or Absence ck one			Effluent			ake onal)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Monthly Av Discharge (if available) Dis	ng-Term verage Number Daily of scharge Analyses	Long- Term Average Value	Number of Analyses
4.46	1,2,4-trichlorobenzene (120-82-1)			V	Concentration Mass					
Section	on 5. Organic Toxic Pollutants	(GC/MS Fract	ion—Pestic	ides)						
5.1	Aldrin (309-00-2)			Ø	Concentration Mass		, and the same of	40.00		
5.2	α-BHC (319-84-6)			<b></b>	Concentration Mass				•	HAULTE
5.3	β-BHC (319-85-7)			Ø	Concentration Mass		1-1-1-1	MANAGEMENT AND ADMINISTRATION OF THE PROPERTY		
5.4	ү-ВНС (58-89-9)			7	Concentration Mass					***************************************
5.5	δ-BHC (319-86-8)			V	Concentration Mass					
5.6	Chlordane (57-74-9)			V	Concentration Mass					
5.7	4,4'-DDT (50-29-3)			<b>V</b>	Concentration Mass					
5.8	4,4'-DDE (72-55-9)			Z	Concentration Mass			The state of the s		***************************************
5.9	4,4'-DDD (72-54-8)			Ø	Concentration Mass					71700
5.10	Dieldrin (60-57-1)			V	Concentration Mass					
5.11	α-endosulfan (115-29-7)			Ø	Concentration Mass					

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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	Presence	ORGANIC T or Absence ok one)	OXIC POLLUTANTS (40		(g)(7)(v)) <sup>1</sup>	Efflue			<b>int</b> (opt	take ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maxim Dail Discha (requin	y Mo arge Disc	nthly	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)			Ø	Concentration Mass							
5.13	Endosulfan sulfate (1031-07-8)			<b></b>	Concentration Mass				HIMIOUNI L			
5.14	Endrin (72-20-8)			7	Concentration Mass							
5.15	Endrin aldehyde (7421-93-4)			7	Concentration Mass			*****				
5.16	Heptachlor (76-44-8)			7	Concentration Mass			7.54				
5.17	Heptachlor epoxide (1024-57-3)			<b>7</b>	Concentration Mass				***************************************			
5.18	PCB-1242 (53469-21-9)			<b>7</b>	Concentration Mass							
5.19	PCB-1254 (11097-69-1)			<b>7</b>	Concentration Mass							
5.20	PCB-1221 (11104-28-2)			<b>7</b>	Concentration Mass							
5.21	PCB-1232 (11141-16-5)			Ø	Concentration Mass							
5.22	PCB-1248 (12672-29-6)			Ø	Concentration Mass							
5.23	PCB-1260 (11096-82-5)			Ø	Concentration Mass							
5.24	PCB-1016 (12674-11-2)			Ø	Concentration Mass					, , , , , , , , , , , , , , , , , , , ,		

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TABL	E B. TOXIC METALS, CYANIDI	E, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANT	TS (40 CF	R 122.21(g)(7)	(v)) <sup>1</sup>				
	7. 4.			or Absence				Effl	uent			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			<b></b>	Concentration Mass							

<sup>1</sup> 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)) <sup>1</sup>										
		Presence or Absence (check one)				Efflu		Intake (Optional)		
	Pollutant	Believed Present	Believed Absent	Units (specify)	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 <i>present</i> in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
✓	Check here if you believe all pollutants on Table C to be <b>absent</b> in your discharge from the noted outfall. You need <b>not</b> complete the "Presence or Absence" column of Table C for each pollutant.									
1.	Bromide (24959-67-9)			Concentration Mass			- CONTRACT PROPERTY AND ADDRESS AND ADDRES			-
2.	Chlorine, total residual			Concentration Mass						
3.	Color			Concentration Mass						
4.	Fecal coliform			Concentration Mass						
5.	Fluoride (16984-48-8)			Concentration Mass						- 100
6	Nitrate-nitrite			Concentration Mass	S S S S S S S S S S S S S S S S S S S		***************************************			
7.	Nitrogen, total organic (as N)			Concentration Mass	7,7,-7,-7,-					
8.	Oil and grease			Concentration Mass		THE CONTRACTOR OF THE CONTRACT				
9.	Phosphorus (as P), total (7723-14-0)			Concentration Mass		THE PROPERTY OF THE PROPERTY O				
10.	Sulfate (as SO <sub>4</sub> ) (14808-79-8)			Concentration Mass						
11.	Sulfide (as S)			Concentration	The state of the s	The state of the s				

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TAB	LE C. CERTAIN CO	NVENTIONAL	AND NON CO	NVENTIONAL POLLUTA	ANTS	(40 CFR 122.21(g	)(7)(vi))¹		:	1 1111111111	
		Presence or Absence (check one)				Effluent				Intake (Optional)	
	Pollutant	Believed Present	Believed Absent	Units (specify)		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 <sub>3</sub> ) (14265-45-3)			Concentration  Mass		***************************************					
13,			The state of the s	Concentration		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************		
14.	Aluminum, total			Mass Concentration			**************************************				
15.	(7429-90-5) Barium, total			Mass Concentration							
16.	(7440-39-3)  Boron, total (7440-42-8)			Mass Concentration			4111				
17.	Cobalt, total (7440-48-4)			Mass Concentration Mass							
18.	Iron, total (7439-89-6)			Concentration  Mass							
19.	Magnesium, total (7439-95-4)			Concentration  Mass			77 TT T		***************************************		
20.	Molybdenum, total (7439-98-7)			Concentration  Mass			, , , , , , , , , , , , , , , , , , , ,				
21.	Manganese, total (7439-96-5)			Concentration Mass							
22.	Tin, total (7440-31-5)			Concentration Mass							
23.	Titanium, total (7440-32-6)			Concentration Mass							

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TAE	LE C. CERTAIN CO	DNVENTIONAL AND NON CO Presence or Absence (check one)		NVENTIONAL POLLUTANTS		5 (40 CFR 122.21(g		<b>Intake</b> (Optional)			
	Pollutant	Believed Present	Believed Absent	Units (specify)		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										.l
	Alpha, total			Concentration Mass					**************************************	TO POST POWER.	, , , , , , , , , , , , , , , , , , ,
	Beta, total			Concentration Mass							
	Radium, total			Concentration Mass		-					
	Radium 226, total	, D		Concentration Mass						77 240 - 20	

<sup>&</sup>lt;sup>1</sup> 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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TAE	TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) <sup>1</sup>										
		Presence or (check									
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge Available Quantitative Data (specify units)							
1.	Asbestos		V								
2.	Acetaldehyde		abla								
3.	Allyl alcohol		V								
4.	Allyl chloride		✓								
5.	Amyl acetate		<b>V</b>								
6.	Aniline		<b></b>								
7.	Benzonitrile		<b></b>								
8.	Benzyl chloride		<b>V</b>								
9.	Butyl acetate		☑								
10,	Butylamine		✓								
11.	Captan		<b>~</b>								
12.	Carbaryl										
13.	Carbofuran		<b>\</b>								
14.	Carbon disulfide		<b>V</b>								
15.	Chlorpyrifos		<b>\</b>								
16.	Coumaphos		<b></b>								
17.	Cresol		<b>7</b>								
18.	Crotonaldehyde		7								
19.	Cyclohexane		<b>7</b>								

TAB	TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) <sup>1</sup>											
		Presence or (check	Absence									
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)							
20.	2,4-D (2,4-dichlorophenoxyacetic acid)		<b>V</b>									
21.	Diazinon		<b>✓</b>									
22.	Dicamba		V									
23.	Dichlobenil		✓									
24.	Dichlone		V	, , , , , , , , , , , , , , , , , , , ,	- Contraction Contraction							
25.	2,2-dichloropropionic acid		<b></b>									
26.	Dichlorvos		Ø		, 1000000							
27.	Diethyl amine		<b>V</b>		919/4							
28.	Dimethyl amine		V									
29.	Dintrobenzene		$\square$		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
30.	Diquat		<b>✓</b>		Manager 1							
31.	Disulfoton		☑									
32.	Diuron		<b>V</b>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
33.	Epichlorohydrin		<b>V</b>		· · · · · · · · · · · · · · · · · · ·							
34.	Ethion		V									
35.	Ethylene diamine		Ø		1 100 170 100							
36.	Ethylene dibromide		✓	Name of the state	Washington							
37.	Formaldehyde		Z		The state of the s							
38.	Furfural		<b>V</b>		- TTAMPOLAL -							

TAB	TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹												
	#	Presence or (check											
:	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)								
39.	Guthion		Ø										
40.	Isoprene		Ø										
41.	Isopropanolamine		<b></b>		***************************************								
42.	Kelthane		$\square$										
43.	Kepone		<b></b>										
44.	Malathion		<b></b>										
45.	Mercaptodimethur		$\square$										
46.	Methoxychlor		V										
47.	Methyl mercaptan		Ø										
48.	Methyl methacrylate		<b>7</b>										
49.	Methyl parathion		<b>V</b>										
50.	Mevinphos	, 🗖											
51.	Mexacarbate		$\Box$										
52.	Monoethyl amine		<b>7</b>										
53.	Monomethyl amine		V										
54.	Naled		<b></b>										
55.	Naphthenic acid		Ø										
56.	Nitrotoluene		V										
57.	Parathion		Ø										

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

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	Pollutant	Presence of (check		Reason Pollutant Relieved Present in Discharge Available Quantitative Da
		Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge (specify units)
77.	Vinyl acetate			
78.	Xylene		<b>V</b>	
79.	Xylenol			
80.	Zirconium		Ø	

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).

TAI	TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))1													
			. 771.4			Effl	uent		Inta (Optio					
	Pollutant	Waiver Requested (if applicable)	Units (specify)		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 have applied	to your NPDI	S permitting author	ity for a wai	ver for all of the p	ollutants listed on t	his table for the no	ted outfall.						
1.	Biochemical oxygen demand		Concentration		No Discharge									
<u>'</u> '	(BOD₅)		Mass											
2.	Chemical oxygen demand		Concentration											
۲,	(COD)		Mass					- 1						
3.	Total organic carbon (TOC)		Concentration											
J.	Total organic carbon (100)		Mass											
4.	Total suspended solids (TSS)		Concentration											
	Total suspended solids (100)		Mass					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
5.	Ammonia (as N)		Concentration							***************************************				
	Alimiona (as 14)		Mass											
6.	Flow		Rate											
7.	Temperature (winter)		ů	°C				1100 A 11 2 W						
	Temperature (summer)		°C	ပ္										
8.	pH (minimum)		Standard units	s.u.										
o.	pH (maximum)		Standard units	s.u.						***************************************				

<sup>&</sup>lt;sup>1</sup> 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. TOYIC METALS: CYANIDE TOTAL PHENOLS: AND OBSANIC TOYIC BOLL HTANTS (40 CED 422 24/eV/7/VeV)

TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122.21(g)(7)	(v)) <sup>1</sup>				
			Presence	or Absence ck one)			g de la castile	.ent			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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 sm 2 through 5 of this table. Note, ho	all business owever, that y	per the instruyou must still	uctions to For indicate in th	rm 2C and, therefore, do not need appropriate column of this t	eed to submit able if you beli	quantitative da eve any of the	ta for any of the pollutants listed	organic toxic are present i	pollutants in your disch	n Sections arge.
Section	on 1. Toxic Metals, Cyanide, and	Total Pheno	ols						1 1	,	
1.1	Antimony, total (7440-36-0)			✓	Concentration Mass			777			
1.2	Arsenic, total (7440-38-2)			<b>V</b>	Concentration Mass	***************************************					
1.3	Beryllium, total (7440-41-7)			<b>V</b>	Concentration Mass						
1.4	Cadmium, total (7440-43-9)			<b></b>	Concentration Mass						
1.5	Chromium, total (7440-47-3)			<b>✓</b>	Concentration Mass	WW-041401		PACCAPULATE A STATE OF THE STAT			
1.6	Copper, total (7440-50-8)			<b></b>	Concentration Mass					V-VI-1AA.1	
1.7	Lead, total (7439-92-1)			Ø	Concentration Mass	7////////		WASSERS OF THE STREET, THE STR			
1.8	Mercury, total (7439-97-6)			<b></b>	Concentration Mass						
1.9	Nickel, total (7440-02-0)			<b>7</b>	Concentration Mass		****		110000		
1.10	Selenium, total (7782-49-2)			✓	Concentration Mass						***************************************
1.11	Silver, total (7440-22-4)			Ø	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

	E B. TOXIC METALS, CYANIDE,		Presence	or Absence ck one)				uent			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)				Concentration Mass						
1.13	Zinc, total (7440-66-6)			Ø	Concentration Mass						
1,14	Cyanide, total (57-12-5)			Ø	Concentration Mass						ATEMO I
1.15	Phenols, total			<b>7</b>	Concentration Mass			, , , , , , , , , , , , , , , , , , , ,			
Section	on 2. Organic Toxic Pollutants (C	GC/MS Fract	ion—Volatil	e Compound	s) - 11-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-		<u></u>		<u> </u>		
2.1	Acrolein (107-02-8)			<b>7</b>	Concentration Mass						
2.2	Acrylonitrile (107-13-1)			<b></b>	Concentration Mass						
2.3	Benzene (71-43-2)			<b></b>	Concentration Mass						***************************************
2.4	Bromoform (75-25-2)			V	Concentration Mass						********
2.5	Carbon tetrachloride (56-23-5)			Ø	Concentration  Mass						
2.6	Chlorobenzene (108-90-7)			Ø	Concentration  Mass						
2.7	Chlorodibromomethane (124-48-1)			Ø	Concentration  Mass			Januari			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2.8	Chloroethane (75-00-3)			<b>7</b>	Concentration  Mass				100		

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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (	40 CF	 R 122.21(a)(7)	(v)) <sup>1</sup>				
			Presence	or Absence ck one)			Effluent					a <b>ke</b> ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			Ø	Concentration  Mass							
2.10	Chloroform (67-66-3)			<b>7</b>	Concentration  Mass							
2.11	Dichlorobromomethane (75-27-4)			Ø	Concentration Mass					***************************************		
2.12	1,1-dichloroethane (75-34-3)			V	Concentration Mass		***************************************					
2.13	1,2-dichloroethane (107-06-2)			7	Concentration Mass		***************************************					
2.14	1,1-dichloroethylene (75-35-4)			<b>7</b>	Concentration Mass					. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
2.15	1,2-dichloropropane (78-87-5)			Ø	Concentration Mass							
2.16	1,3-dichloropropylene (542-75-6)			Ø	Concentration Mass							
2.17	Ethylbenzene (100-41-4)			Ø	Concentration Mass				111 at 1111at 1			
2.18	Methyl bromide (74-83-9)			Ø	Concentration Mass							
2.19	Methyl chloride (74-87-3)			Ø	Concentration Mass							
2.20	Methylene chloride (75-09-2)			Ø	Concentration Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)			V	Concentration Mass							

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TABL	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40	CFR 122.21(g)(7	)(v))¹				
			Presence	or Absence ck one)				uent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass						
2.23	Toluene (108-88-3)			V	Concentration Mass		700000	1000			
2.24	1,2-trans-dichloroethylene (156-60-5)			<b>7</b>	Concentration Mass			· · · · · · · · · · · · · · · · · · ·			
2.25	1,1,1-trichloroethane (71-55-6)			<b>7</b>	Concentration Mass						
2.26	1,1,2-trichloroethane (79-00-5)			Ø	Concentration Mass		***************************************		HARANA		
2,27	Trichloroethylene (79-01-6)			<b></b>	Concentration Mass						
2.28	Vinyl chloride (75-01-4)			Ø	Concentration Mass						
Section	on 3. Organic Toxic Pollutants (	GC/MS Fract	ion—Acid C	ompounds)	and the state of t					1	
3.1	2-chlorophenol (95-57-8)			Ø	Concentration Mass						PALA
3.2	2,4-dichlorophenol (120-83-2)			Ø	Concentration  Mass		***************************************				
3.3	2,4-dimethylphenol (105-67-9)			Ø	Concentration Mass			- 1000			
3.4	4,6-dinitro-o-cresol (534-52-1)			<b>7</b>	Concentration Mass						
3.5	2,4-dinitrophenol (51-28-5)			V	Concentration Mass						

TABL											
TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	Presence	ORGANIC T or Absence ck one)	OXIC POLLUTANTS (40 CF	R 122,21(g)(7)	)(v)) <sup>1</sup> Efflu	ient			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass					****	
3.7	4-nitrophenol (100-02-7)			Ø	Concentration Mass						
3.8	p-chloro-m-cresol (59-50-7)			Ø	Concentration Mass						
3.9	Pentachlorophenol (87-86-5)			Ø	Concentration Mass					MEMORIA	
3.10	Phenol (108-95-2)			Z	Concentration Mass						
3.11	2,4,6-trichlorophenol (88-05-2)			Ø	Concentration Mass						
Secti	on 4. Organic Toxic Pollutants (	C/MS Fract	ion—Base /	Neutral Com	pounds)		<u> </u>		<u> </u>	<u> </u>	
4.1	Acenaphthene (83-32-9)			Ø	Concentration Mass						
4.2	Acenaphthylene (208-96-8)			Ø	Concentration Mass					***************************************	
4.3	Anthracene (120-12-7)			Ø	Concentration  Mass						
4.4	Benzidine (92-87-5)			Ø	Concentration  Mass			TO THE TAIL THE PAIL			
4.5	Benzo (a) anthracene (56-55-3)			Ø	Concentration  Mass						
4.6	Benzo (a) pyrene (50-32-8)			Ø	Concentration  Mass						

TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (4)	0 CFF	R 122.21(g)(7)	(v)) <sup>1</sup>				
	Marie II. Marie II. Marie II.			or Absence ck one)				Effi	uent		ln: (op	take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			☑	Concentration Mass							
4.8	Benzo (ghi) perylene (191-24-2)			Ø	Concentration Mass				-1004			
4.9	Benzo (k) fluoranthene (207-08-9)			Ø	Concentration Mass		···					
4.10	Bis (2-chloroethoxy) methane (111-91-1)			7	Concentration Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)			<b>7</b>	Concentration Mass					**************************************		
4.12	Bis (2-chloroisopropyl) ether (102-80-1)			<b>V</b>	Concentration  Mass		The state of the s					
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)			Ø	Concentration Mass				***************************************	110000		
4.14	4-bromophenyl phenyl ether (101-55-3)			$\square$	Concentration  Mass							
4.15	Butyl benzyl phthalate (85-68-7)			Ø	Concentration  Mass		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
4.16	2-chloronaphthalene (91-58-7)			Ø	Concentration  Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)			$\square$	Concentration Mass		***************************************		-			
4.18	Chrysene (218-01-9)			Ø	Concentration Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)			Ø	Concentration Mass							

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TABL	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122.21(g)(7)	)(v))¹		-		
	A CONTROL OF THE CONT			or Absence ck one)			Efflue	nt			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass						
4.21	1,3-dichlorobenzene (541-73-1)			$\square$	Concentration Mass		200				**************************************
4.22	1,4-dichlorobenzene (106-46-7)			Ø	Concentration Mass					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
4.23	3,3-dichlorobenzidine (91-94-1)			<b></b>	Concentration Mass						
4.24	Diethyl phthalate (84-66-2)			Ø	Concentration Mass			***			
4.25	Dimethyl phthalate (131-11-3)			Ø	Concentration Mass			use contracted.			
4.26	Di-n-butyl phthalate (84-74-2)			Ø	Concentration Mass						
4.27	2,4-dinitrotoluene (121-14-2)		П	Ø	Concentration Mass			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
4.28	2,6-dinitrotoluene (606-20-2)			<b>7</b>	Concentration Mass						
4.29	Di-n-octyl phthalate (117-84-0)			<b></b>	Concentration Mass						
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)			Ø	Concentration Mass						
4.31	Fluoranthene (206-44-0)			Ø	Concentration Mass						
4.32	Fluorene (86-73-7)			V	Concentration Mass						

TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122.21(g)(7)	(v)) <sup>1</sup>				
			Presence	or Absence ck one)			Effl	ient			t <b>ake</b> tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Eelieved Absent	Units (specify)	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)			Ø	Concentration Mass			(if available)			
4.34	Hexachlorobutadiene (87-68-3)			Ø	Concentration Mass						
4.35	Hexachlorocyclopentadiene (77-47-4)			Ø	Concentration  Mass						
4.36	Hexachloroethane (67-72-1)			Ø	Concentration Mass		***************************************				
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)			Ø	Concentration Mass						
4.38	Isophorone (78-59-1)			Ø	Concentration Mass		77-344				
4.39	Naphthalene (91-20-3)			Ø	Concentration Mass						
4.40	Nitrobenzene (98-95-3)			Ø	Concentration  Mass					***************************************	
4.41	N-nitrosodimethylamine (62-75-9)			Ø	Concentration Mass				,		
4.42	N-nitrosodi-n-propylamine (621-64-7)			Ø	Concentration Mass						
4.43	N-nitrosodiphenylamine (86-30-6)			<b>7</b>	Concentration Mass						
4.44	Phenanthrene (85-01-8)			Ø	Concentration Mass						
4.45	Pyrene (129-00-0)			Ø	Concentration Mass						

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TABL	LE B. TOXIC METALS, CYANIDI	E, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122,21(g)(7)	)(v)) <sup>1</sup>		•			
			Presence	or Absence ck one)			Efflo	ıent .	100 100 100 100 100 100 100 100 100 100		t <b>ake</b> lional)	
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass							
Secti	on 5. Organic Toxic Pollutants	(GC/MS Fract	ion—Pestic	ides)					311			
5.1	Aldrin (309-00-2)				Concentration Mass			1000		.,		
5.2	α-BHC (319-84-6)			<b></b>	Concentration Mass	1						
5.3	β-BHC (319-85-7)			Ø	Concentration Mass		,,,,,,					
5.4	ү-ВНС (58-89-9)				Concentration Mass				THE THE STATE OF T			
5.5	δ-BHC (319-86-8)			Ø	Concentration Mass							
5.6	Chlordane (57-74-9)			7	Concentration Mass				- 1000			
5.7	4,4'-DDT (50-29-3)			Ø	Concentration Mass						- 1007-3000	
5.8	4,4'-DDE (72-55-9)			<b>7</b>	Concentration Mass			· · · · · · · · · · · · · · · · · · ·				
5.9	4,4'-DDD (72-54-8)			Ø	Concentration Mass				The state of the s			
5.10	Dieldrin (60-57-1)			V	Concentration Mass		7.4.5	***************************************			100.000	
5.11	α-endosulfan (115-29-7)			Ø	Concentration Mass							

	E B. TOXIC METALS, CYANIDE		Presence	or Absence ck one)			Effluent				take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass			(ii avallable)			
5.13	Endosulfan sulfate (1031-07-8)		П	<b>7</b>	Concentration Mass						
5.14	Endrin (72-20-8)			Ø	Concentration Mass	TAVE		- 100			
5.15	Endrin aldehyde (7421-93-4)			Ø	Concentration Mass		***************************************				
5.16	Heptachlor (76-44-8)			<b>V</b>	Concentration Mass						
5.17	Heptachlor epoxide (1024-57-3)			$\square$	Concentration Mass				-		-
5.18	PCB-1242 (53469-21-9)			$\square$	Concentration Mass			7. 7. 4.44			
5.19	PCB-1254 (11097-69-1)			Ø	Concentration Mass						
5.20	PCB-1221 (11104-28-2)			Ø	Concentration Mass	HIRDON ALLES					
5.21	PCB-1232 (11141-16-5)			Ø	Concentration Mass						
5.22	PCB-1248 (12672-29-6)			Ø	Concentration Mass						
5.23	PCB-1260 (11096-82-5)			团	Concentration Mass						
5.24	PCB-1016 (12674-11-2)			<b>7</b>	Concentration Mass						

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corps Base Quantico	003	OMB No. 2040-0004

TABL	E B. TOXIC METALS, CYANIDE, 1	TOTAL PHE	Presence	ORGANIC T or Absence ck one)	OXIC POLLUTAN	TS (40 CF	R 122.21(g)(7)		uent		1	ake
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			Ø	Concentration Mass							

<sup>&</sup>lt;sup>1</sup> 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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TAE	LE C. CERTAIN CO			NVENTIONAL POLI	UTANTS	(40 CFR 122.21(g)	(7)(vi))¹				
	и И. В .	Presence o					Efflue	ent		intal	
	Pollutant	Believed Present	Believed Absent	Units (specify)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (If available)	Number of Analyses	(Option Long-Term Average Value	Number of Analyses
	Check here if you b each pollutant.	elieve all polluta	ınts on Table (	C to be <i>present</i> in yo	ur discha	rge from the noted o	utfall. You need <i>n</i>	of complete the "F	Presence or Abse	ence" column of T	able C for
Ø	each poliutant.										
1.	Bromide (24959-67-9)			Concentration Mass		-		1177-100106-1	100-20-3		
2.	Chlorine, total residual			Concentration Mass				**************************************			
3,	Color			Concentration Mass		-			- WHILE	, , , , , , , , , , , , , , , , , , , ,	MATERIA 1.00
4.	Fecal coliform			Concentration Mass	****			***************************************		40114	
5.	Fluoride (16984-48-8)			Concentration Mass		***************************************				, variation	
6	Nitrate-nitrite			Concentration Mass							
7.	Nitrogen, total organic (as N)			Concentration Mass							
8.	Oil and grease			Concentration Mass	W. 1.		77.474.244.1				,
9.	Phosphorus (as P), total (7723-14-0)			Concentration Mass							
10.	Sulfate (as SO <sub>4</sub> ) (14808-79-8)			Concentration Mass		and the state of t			, , , , , , , , , , , , , , , , , , , ,	10,700.00	
11.	Sulfide (as S)			Concentration Mass			444				

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TAB	LE C. CERTAIN CO	NVENTIONAL	AND NON CO	NVENTIONAL POLLUTANT	S (40 CFR 122.21(c	g)(7)(vi))¹				
		Presence of (check				Efflu	ent		Intake (Optional)	
	Pollutant	Believed Present	Believed Absent	Units (specify)	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 <sub>3</sub> ) (14265-45-3)			Concentration Mass						
13.	Surfactants			Concentration  Mass					***************************************	
14.	Aluminum, total (7429-90-5)			Concentration  Mass		<del></del>		, deliver	11.	
15.	Barium, total (7440-39-3)			Concentration  Mass						
16.	Boron, total (7440-42-8)			Concentration  Mass						***************************************
17.	Cobalt, total (7440-48-4)			Concentration  Mass					, , , , , , , , , , , , , , , , , , , ,	
18.	Iron, total (7439-89-6)			Concentration  Mass			YEAR ALL A			7,000
19.	Magnesium, total (7439-95-4)			Concentration Mass						
20.				Concentration  Mass		MALLO CONTROL I		, , , , , , , , , , , , , , , , , , ,	**************************************	
21.	(7439-98-7) Manganese, total (7439-96-5)			Concentration  Mass				******		
22.	Tin, total (7440-31-5)			Concentration  Mass				1/ * * * * * * * * * * * * * * * * * * *	, The state of the	
23.	Titanium, total (7440-32-6)			Concentration  Mass		W				

		Presence or Absence (check one)				Efflu		Intake (Optiona		
	Pollutant	Believed Present	Believed Absent	Units (specify)	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				*	<del>,,,,,,,</del>				<u> </u>
	Alpha, total	г		Concentration						
	Alpha, total	]		Mass						
	Beta, total			Concentration						
	Deta, total	]		Mass						
	Radium, total	П		Concentration			******			
	Radium, total			Mass					***************************************	
	Radium 226, total			Concentration						
	rvaulum 220, 10(a)			Mass	24.77.70.70.1					

<sup>1</sup> 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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TAB	BLE D. CERTAIN HAZARDOUS SUBSTANC	CES AND ASBEST	OS (40 CFR 122	.21(g)(7)(vii)) <sup>1</sup>
	# 1 	Presence or	Absence	
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge Available Quantitative Data (specify units)
1.	Asbestos		V	
2.	Acetaldehyde		<b></b>	
3.	Allyl alcohol		Ø	
4.	Allyl chloride		✓	
5.	Amyl acetate		✓	
6.	Aniline		✓	
7.	Benzonitrile	The state of the s	✓	
8.	Benzyl chloride		✓	
9.	Butyl acetate		<b></b>	
10.	Butylamine		<b></b>	
11.	Captan		<b></b>	
12.	Carbaryl		✓	
13.	Carbofuran		<b></b>	
14.	Carbon disulfide	7	✓	
15.	Chlorpyrifos		<b>4</b>	
16.	Coumaphos		✓	
17.	Cresol		✓	
18.	Crotonaldehyde		Ø	
19.	Cyclohexane		✓	

TAB	LE D. CERTAIN HAZARDOUS SUBSTAN	CES AND ASBEST	OS (40 CFR 122.	.21(g)(7)(vii))¹	
	Pollutant	Presence of (check	Absence		Available Quantitative Data
	and the state of t	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	(specify units)
20.	2,4-D (2,4-dichlorophenoxyacetic acid)				
21.	Diazinon		Ø		Maria Ma
22.	Dicamba		<b></b>		
23.	Dichlobenil		<b>✓</b>		
24.	Dichlone		<b></b>		
25.	2,2-dichloropropionic acid		✓		S STATE OF THE STA
26.	Dichlorvos		✓		THE MAN AND AND AND AND AND AND AND AND AND A
27.	Diethyl amine		<b>V</b>		
28.	Dimethyl amine		V		
29.	Dintrobenzene		Ø		
30.	Diquat		V		
31.	Disulfoton		abla		
32.	Diuron		<b>\</b>		
33.	Epichlorohydrin		<b>V</b>		
34.	Ethion				
35.	Ethylene diamine		<b>V</b>		
36.	Ethylene dibromide		V		
37.	Formaldehyde		<		
38.	Furfural		<b>V</b>		

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

TAE	U.E.D. CERTAIN HAZARDOUG CHROTAN	OCO AND ACRES	00 /40 050-400	NO44 N/RM 1994	
TAL	LE D. CERTAIN HAZARDOUS SUBSTAN Pollutant	Presence of Check	r Absence		
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
58.	Phenolsulfonate		Ø		
59.	Phosgene		<b>V</b>		
60.	Propargite		Ø		
61.	Propylene oxide		V		
62.	Pyrethrins		V	***************************************	VI STANDA - VI STA
63.	Quinoline		Ø	The state of the s	
64.	Resorcinol		V		
65.	Strontium		V		The Art Stay Stay
66.	Strychnine		Ø		
67.	Styrene		V	Total and the second se	
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)		V		
69.	TDE (tetrachlorodiphenyl ethane)		Ø		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]		Ø	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
71.	Trichlorofon		Ø		
72.	Triethanolamine		Ø		
73.	Triethylamine		V	Windows Window Windows Windows Windows Windows Windows Windows Windows Window	· ONE UDE:
74.	Trimethylamine		$\square$		
75.	Uranium		V	717-741	Marke 1
76.	Vanadium		Ø		

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corps Base Quantico	003	OMB No. 2040-0004

TAB	LE D. CERTAIN HAZARDOUS SUBS	TANCES AND ASBEST	CS (40 CFR 122	.21(g)(7)(vii))¹
	Pollutant	Presence of		Reason Pollutant Relieved Present in Discharge Available Quantitative Data
,	· Onduite	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge Available Quantitative Data (specify units)
77.	Vinyl acetate		<b>V</b>	
78.	Xylene		$\square$	
79.	Xylenol		$\square$	
80.	Zirconium		$\square$	

<sup>&</sup>lt;sup>1</sup> 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).

	BLE A. CONVENTIONAL AND N	ON GONVEN	HOWAL FOLLOW	10 04) OT	14.4.4 I(g)(1)(1		uent		Intal	
	Pollutant	Waiver Requested (if applicable)	<b>Units</b> (specify)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	(Option Long-Term Average Value	Number of Analyses
	Check here if you have applied	to your NPDE	S permitting authori	ty for a wai	ver for all of the p	ollutants listed on t	his table for the no	ted outfall.		
1.	Biochemical oxygen demand		Concentration	mg/l	3			1		
1,	(BOD₅)	<u></u> .	Mass						***************************************	
2.	Chemical oxygen demand (COD)		Concentration	mg/l	26.6			1		
۷.			Mass			57300000				,,,,,,
3.	Total organic carbon (TOC)		Concentration	mg/l	2.88			1		
J.			Mass			***			Maraum	
4.	Total suspended solids (TSS)		Concentration	mg/l	15.6		TORNING.	1	***************************************	
4.			Mass							
5.	Ammonia (as N)		Concentration	mg/l	0.44			1,		
٥.	Animonia (as N)		Mass				***************************************			· · · · · · · · · · · · · · · · · · ·
6.	Flow		Rate	MGD	0.0023	•		1		
7.	Temperature (winter)		°C	°C	17.7			1		100000
1,	Temperature (summer)	П	°C	°C				1		
8.	pH (minimum)		Standard units	ş.u.	6.42			1		1000 000
u,	pH (maximum)		Standard units	s.u.	6.42		· · · · · · · · · · · · · · · · · · ·	1		**************************************

<sup>&</sup>lt;sup>1</sup> 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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	220070002505	***************************************			inne corps base quantico		010		
TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 (	FR 122.21(g)(7	)(v))¹		
		·	Presence	or Absence ck one)			Effluent		Intake (optional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Monthly Discharge	ong-Term Average Number Daily of Discharge Analyses if available)	Long- Term Average Value  Number of Analyses
	Check here if you qualify as a sm 2 through 5 of this table. Note, ho	owever, that y	you must still	uctions to For I indicate in th	m 2C and, therefore, do no e appropriate column of th	t need to submit s table if you bel	quantitative data fo	or any of the organic toxic utants listed are present in	pollutants in Sections n your discharge.
Section	on 1. Toxic Metals, Cyanide, and	Total Pheno	əls		er e			1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945	
1.1	Antimony, total (7440-36-0)			<b>7</b>	Concentration Mass				
1.2	Arsenic, total (7440-38-2)			<b>7</b>	Concentration  Mass		1700.00		
1.3	Beryllium, total (7440-41-7)			<b></b>	Concentration  Mass				
1.4	Cadmium, total (7440-43-9)			<b>7</b>	Concentration  Mass		000 000 000 000 000 000 000 000 000 00		
1.5	Chromium, total (7440-47-3)			☑	Concentration  Mass		The second secon		
1.6	Copper, total (7440-50-8)			Ø	Concentration  Mass	2			
1.7	Lead, total (7439-92-1)			$\square$	Concentration  Mass				
1.8	Mercury, total (7439-97-6)			Ø	Concentration  Mass				
1.9	Nickel, total (7440-02-0)			Ø	Concentration Mass				
1.10	Selenium, total (7782-49-2)			Ø	Concentration  Mass				•
1.11	Silver, total (7440-22-4)			<b>7</b>	Concentration Mass				

	1100/0001339		02121		irine Corps Base Quantico		U16				
TABL	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122,21(g)(7)	(v)) <sup>1</sup>				
		:	Presence	or Absence ck one)			Effluer	11			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Monthly Discharge	ong-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)			Ø	Concentration Mass						
1.13	Zinc, total (7440-66-6)			Ø	Concentration Mass					***************************************	
1.14	Cyanide, total (57-12-5)			V	Concentration Mass						
1.15	Phenols, total			Ø	Concentration Mass						
Section	on 2. Organic Toxic Pollutants	(GC/MS Fract	ion—Volatil	e Compound	<b>s</b> )· ·		<u> </u>				
2.1	Acrolein (107-02-8)			<b>7</b>	Concentration Mass						
2.2	Acrylonitrile (107-13-1)			Ø	Concentration Mass	***			78884744		*****
2.3	Benzene (71-43-2)			7	Concentration  Mass		7100000	***************************************	THE	***************************************	
2.4	Bromoform (75-25-2)			<b></b> ✓	Concentration Mass					***************************************	
2,5	Carbon tetrachloride (56-23-5)	П		·	Concentration Mass		-				
2.6	Chlorobenzene (108-90-7)			Ø	Concentration  Mass						· · · · · · · · · · · · · · · · · · · ·
2.7	Chlorodibromomethane (124-48-1)			Ø	Concentration  Mass					**************************************	
2.8	Chloroethane (75-00-3)			Ø	Concentration  Mass	1, 2, 1100		***************************************			

E-71-11											
TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	Presence	ORGANIC T or Absence ck one)	OXIC POLLUTANTS (40 CF)	R 122.21(g)(7)	i <b>ent</b>			take tional)	
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass						
2.10	Chloroform (67-66-3)			Ø	Concentration Mass						
2.11	Dichlorobromomethane (75-27-4)			V	Concentration Mass						
2.12	1,1-dichloroethane (75-34-3)			Ø	Concentration Mass						
2.13	1,2-dichloroethane (107-06-2)			Ø	Concentration Mass						
2.14	1,1-dichloroethylene (75-35-4)			<b></b>	Concentration Mass						
2.15	1,2-dichloropropane (78-87-5)			Ø	Concentration Mass						
2.16	1,3-dichloropropylene (542-75-6)			Ø	Concentration Mass				The state of the s		
2.17	Ethylbenzene (100-41-4)			<b>7</b>	Concentration Mass						
2.18	Methyl bromide (74-83-9)			<b></b>	Concentration Mass						,
2.19	Methyl chloride (74-87-3)			Ø	Concentration Mass						-
2.20	Methylene chloride (75-09-2)			Ø	Concentration Mass	11 00 111 0 MMM					***************************************
2.21	1,1,2,2- tetrachloroethane (79-34-5)			Ø	Concentration Mass						

	E B. TOXIC METALS, CYANIDE,	-	Presence	or Absence ck one)				Jent .			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			☑	Concentration Mass						
2.23	Toluene (108-88-3)				Concentration Mass				and the state of t		
2.24	1,2-trans-dichloroethylene (156-60-5)			Ø	Concentration Mass			***************************************			
2.25	1,1,1-trichloroethane (71-55-6)			Ø	Concentration Mass						
2.26	1,1,2-trichloroethane (79-00-5)			Ø	Concentration Mass			11 240 MARKET 14 14 14 14 14 14 14 14 14 14 14 14 14			
2.27	Trichloroethylene (79-01-6)			Ø	Concentration Mass		77.00.010.00				
2.28	Vinyl chloride (75-01-4)			$\square$	Concentration Mass			***************************************			
Section	on 3. Organic Toxic Pollutants (0	GC/MS Fract	ion—Acid C	ompounds)					<u>l</u>	<u> </u>	<u> </u>
3.1	2-chlorophenol (95-57-8)			Ø	Concentration Mass						
3.2	2,4-dichlorophenol (120-83-2)			<b>7</b>	Concentration Mass						
3.3	2,4-dimethylphenol (105-67-9)			Ø	Concentration Mass						
3.4	4,6-dinitro-o-cresol (534-52-1)			Ø	Concentration  Mass						
3.5	2,4-dinitrophenol (51-28-5)				Concentration  Mass						

TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122.21(g)(7)	(v)) <sup>1</sup>		- :		
			Presence	or Absence ck one				uent			take lional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6	2-nitrophenol			✓	Concentration	trequired	(is available)	(if available)		value	
	(88-75-5)	£1			Mass						
3.7	4-nitrophenol (100-02-7)			<b>7</b>	Concentration  Mass						
3.8	p-chloro-m-cresol (59-50-7)			<b></b>	Concentration Mass						
3.9	Pentachlorophenol (87-86-5)			7	Concentration  Mass				·		
3,10	Phenol (108-95-2)			<b>V</b>	Concentration  Mass						
3.11	2,4,6-trichlorophenol (88-05-2)			<b>V</b>	Concentration  Mass						
Section	on 4. Organic Toxic Pollutants (0	C/MS Fract	ion—Base /	Neutral Com			:			:	<u>.</u>
4.1	Acenaphthene (83-32-9)			<b>7</b>	Concentration Mass			-			
4.2	Acenaphthylene (208-96-8)			<b>7</b>	Concentration  Mass						
4.3	Anthracene (120-12-7)			<b>7</b>	Concentration Mass						
4.4	Benzidine (92-87-5)			V	Concentration  Mass						
4.5	Benzo (a) anthracene (56-55-3)			Ø	Concentration  Mass						
4.6	Benzo (a) pyrene (50-32-8)			<b>V</b>	Concentration  Mass						

TABL	ED TOYOUTALO OVANIBE	TOTAL DUE	NOLO AND	*	anne corps base Quantico		- O10				
TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	Presence	or Absence ck one)	OXIC POLLUTANTS (40 CF	R 122.21(g)(/)	Efflu	ent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass			(in available)			
4.8	Benzo (ghi) perylene (191-24-2)			Ø	Concentration Mass						
4.9	Benzo (k) fluoranthene (207-08-9)			Ø	Concentration Mass						
4.10	Bis (2-chloroethoxy) methane (111-91-1)			Ø	Concentration Mass						
4.11	Bis (2-chloroethyl) ether (111-44-4)			<b>7</b>	Concentration Mass		-				
4.12	Bis (2-chloroisopropyl) ether (102-80-1)			Ø	Concentration Mass		-				
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)			Ø	Concentration Mass						
4.14	4-bromophenyl phenyl ether (101-55-3)			Ø	Concentration Mass						
1.15	Butyl benzyl phthalate (85-68-7)			V	Concentration Mass						
4.16	2-chloronaphthalene (91-58-7)			Ø	Concentration Mass						
4.17	4-chlorophenyl phenyl ether (7005-72-3)			Ø	Concentration Mass						
4.18	Chrysene (218-01-9)			Ø	Concentration Mass		***************************************	programme 2			
4.19	Dibenzo (a,h) anthracene (53-70-3)			Ø	Concentration Mass						

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	E B. TOXIC METALS, CYANIDE,		Presence	or Absence				uent			a <b>ke</b> ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass	-			NA SPANIS		
4.21	1,3-dichlorobenzene (541-73-1)			Ø	Concentration Mass			A			
4.22	1,4-dichlorobenzene (106-46-7)			Ø	Concentration Mass						
4.23	3,3-dichlorobenzidine (91-94-1)			V	Concentration Mass	***************************************					
4.24	Diethyl phthalate (84-66-2)			Ø	Concentration Mass						
4.25	Dimethyl phthalate (131-11-3)			Ø	Concentration Mass				-		
4.26	Di-n-butyl phthalate (84-74-2)			Ø	Concentration Mass						
4.27	2,4-dinitrotoluene (121-14-2)			Ø	Concentration Mass					:	
4.28	2,6-dinitrotoluene (606-20-2)			Ø	Concentration Mass						***************************************
4.29	Di-n-octyl phthalate (117-84-0)			V	Concentration Mass						
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)			V	Concentration Mass						
4.31	Fluoranthene (206-44-0)			Ø	Concentration Mass						
4.32	Fluorene (86-73-7)			Ø	Concentration Mass			W10.000100100			

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IABL	E B. TOXIC METALS, CYANIDE,	TOTAL PAL	Presence	or Absence ck one)	OAIC POLLUTANTS (	R 122.21(g)(7)	Effl	Jent	7400	Intake (optional)	
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass						
4.34	Hexachlorobutadiene (87-68-3)			Ø	Concentration Mass						
4.35	Hexachlorocyclopentadiene (77-47-4)			Ø	Concentration Mass	 17					
4.36	Hexachloroethane (67-72-1)			Ø	Concentration Mass						
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)			Ø	Concentration Mass			- MANAGAMAN	Passana		
4.38	Isophorone (78-59-1)			Ø	Concentration Mass						
4.39	Naphthalene (91-20-3)			Ø	Concentration Mass						
4.40	Nitrobenzene (98-95-3)			Ø	Concentration Mass		1				
4.41	N-nitrosodimethylamine (62-75-9)			Ø	Concentration Mass						
4.42	N-nitrosodi-n-propylamine (621-64-7)			V	Concentration Mass			****			
4.43	N-nitrosodiphenylamine (86-30-6)		П	Ø	Concentration Mass	 ,					
4.44	Phenanthrene (85-01-8)			<b>7</b>	Concentration Mass						
4.45	Pyrene (129-00-0)			Ø	Concentration  Mass						

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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122,21(g)(7)	(v)) <sup>1</sup>		:		
			Presence	or Absence ck one)				uent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass						
Section	on 5. Organic Toxic Pollutants (	GC/MS Fract	ion—Pestic	ides)	en e	•	ж .			1	
5.1	Aldrin (309-00-2)			Ø	Concentration  Mass			***************************************			
5.2	α-BHC (319-84-6)			<b>7</b>	Concentration Mass						
5.3	β-BHC (319-85-7)			<b>V</b>	Concentration Mass						
5.4	γ-BHC (58-89-9)			Ø	Concentration  Mass						
5.5	δ-BHC (319-86-8)			Ø	Concentration  Mass						
5.6	Chlordane (57-74-9)			<b></b>	Concentration Mass		n emvanum usus				
5.7	4,4'-DDT (50-29-3)			<b>V</b>	Concentration  Mass	wings, and		****	***************************************		
5.8	4,4'-DDE (72-55-9)			Ø	Concentration  Mass						
5.9	4,4'-DDD (72-54-8)			<b>7</b>	Concentration  Mass	***************************************					
5.10	Dieldrin (60-57-1)			Ø	Concentration  Mass			**************************************		-	
5.11	α-endosulfan (115-29-7)			Ø	Concentration  Mass					***************************************	

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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	Presence	or Absence	OXIC POLLUTANTS (40 CF	R 122.21(g)(7)				F	Secretary of the secret
		1	(che	ck one)			Efflu	ent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			<b>7</b>	Concentration Mass					a description of the second of	
5.13	Endosulfan sulfate (1031-07-8)			Ø	Concentration Mass			***************************************		THE PROPERTY OF THE PROPERTY O	
5.14	Endrin (72-20-8)			7	Concentration Mass	uusenanu.					
5.15	Endrin aldehyde (7421-93-4)			Ø	Concentration Mass						
5.16	Heptachlor (76-44-8)			Ø	Concentration Mass						***************************************
5.17	Heptachlor epoxide (1024-57-3)			Ø	Concentration Mass						
5.18	PCB-1242 (53469-21-9)			<b></b>	Concentration Mass						
5.19	PCB-1254 (11097-69-1)			<b>Z</b>	Concentration Mass		***************************************	· · · · · · · · · · · · · · · · · · ·			
5.20	PCB-1221 (11104-28-2)			Ø	Concentration Mass			***************************************			
5.21	PCB-1232 (11141-16-5)			Ø	Concentration Mass						
5.22	PCB-1248 (12672-29-6)			Ø	Concentration Mass						
5.23	PCB-1260 (11096-82-5)			Ø	Concentration Mass			.,			
5.24	PCB-1016 (12674-11-2)				Concentration Mass			***************************************			

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TABL	E B. TOXIC METALS, CYANID				•		 R 122.21(g)(7)					
			1	or Absence				Effl	uent		1 .	ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			<b>V</b>	Concentration Mass							

<sup>1</sup> 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 Presence or Absence Intake (check one) Effluent (Optional) Units Pollutant Long-Term Maximum . Believed Believed **Maximum Daily** (specify) Long-Term Monthly Number of Number of Average Daily Present Absent Discharge Average Discharge Discharge Analyses **Analyses** (required) Value (if available) (if available) 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. Concentration Bromide **V** 1. (24959-67-9) Mass Concentration Chlorine, total mg/l 0.00 1  $\checkmark$ 2. residual Mass Concentration 3.  $\square$ Color Mass Concentration  $\overline{\mathbf{A}}$ Fecal coliform Mass Concentration Fluoride  $\checkmark$ 5. (16984-48-8) Mass Concentration mg/l 0.35 1 ✓ 6 Nitrate-nitrite Mass Nitrogen, total Concentration mg/l 1.43 1 ✓ organic (as N) Mass Concentration Oil and grease Mass Concentration Phosphorus (as mg/l 0.10 1 **V** P), total (7723-14-0) Mass Concentration Sulfate (as SO<sub>4</sub>)  $\checkmark$ 10. (14808-79-8) Mass Concentration  $\checkmark$ 11. Sulfide (as S) Mass

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	LE C. CERTAIN CO	Presence of (check	r Absence					ent		Inta (Optio	ike onal)
	Pollutant	Believed Present	Believed Absent	Units (specify)		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 <sub>3</sub> ) (14265-45-3)			Concentration Mass							
13.	Surfactants		V	Concentration Mass							
14.	Aluminum, total (7429-90-5)		V	Concentration Mass		***************************************					
15.	Barium, total (7440-39-3)			Concentration Mass	······································				*****	*** The second s	
16.	Boron, total (7440-42-8)		<b>V</b>	Concentration Mass							
17.	Cobalt, total (7440-48-4)		<b>V</b>	Concentration Mass							
18.	Iron, total (7439-89-6)		V	Concentration  Mass							
19.	Magnesium, total (7439-95-4)		Ø	Concentration Mass		Personal Andreas					***************************************
20.	Molybdenum, total (7439-98-7)		Ø	Concentration Mass						- The residence	
21.	Manganese, total (7439-96-5)		Ø	Concentration Mass							
22.	Tin, total (7440-31-5)		Ø	Concentration Mass					THE THE PERSON NAMED IN COLUMN TO TH		
23.	Titanium, total (7440-32-6)		<b>V</b>	Concentration Mass			- *************************************				-

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		Presence o				Efflu	ent		Inta (Optic	
	Pollutant	Believed Present	Believed Absent	Units (specify)	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		Ø	Concentration Mass						
	Beta, total		V	Concentration Mass	 -		***************************************			
	Radium, total		Ø	Concentration Mass			***************************************	,,		
	Radium 226, total		Ø	Concentration Mass						

<sup>1</sup> 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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TAE	TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹									
		Presence or (check	Absence	Reason Pollutant Believed Present in Discharge						
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)					
1.	Asbestos		<b> ✓</b>		90					
2.	Acetaldehyde		<b>V</b>	TATALAN TO THE STATE OF THE STA						
3.	Allyl alcohol		<b>7</b>							
4.	Allyl chloride		7							
5.	Amyl acetate		<u> </u>							
6.	Aniline		Ø							
7.	Benzonitrile		<b></b>							
8.	Benzyl chloride		Ø							
9.	Butyl acetate		☑							
10.	Butylamine		<b>V</b>							
11.	Captan		Ø							
12.	Carbaryl		V							
13.	Carbofuran		V							
14.	Carbon disulfide		<b>7</b>							
15.	Chlorpyrifos		Ø							
16.	Coumaphos		Ø.							
17.	Cresol		<b>7</b>							
18.	Crotonaldehyde		Ø							
19.	Cyclohexane		Ø							

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))1									
	April 2005	Presence or (check							
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)				
20.	2,4-D (2,4-dichlorophenoxyacetic acid)		<b>7</b>						
21.	Diazinon		<b>✓</b>						
22.	Dicamba		<b>V</b>						
23,	Dichlobenil		<b>7</b>						
24.	Dichlone		<b>7</b>						
25,	2,2-dichloropropionic acid		Ø						
26.	Dichlorvos		<b>7</b>	AT MANY	,				
27.	Diethyl amine		<b>7</b>		19014				
28.	Dimethyl amine		7						
29.	Dintrobenzene		<b>V</b>						
30.	Diquat		<b></b>	,	10000000				
31.	Disulfoton		Ø						
32.	Diuron		✓						
33.	Epichlorohydrin		<b>V</b>						
34.	Ethion		<b></b>						
35.	Ethylene diamine		Ø						
36.	Ethylene dibromide		Ø						
37.	Formaldehyde		<b></b>						
38.	Furfural		<b>7</b>		THE THIRD IS NOT THE TOTAL OF T				

TAE	LE D. CERTAIN HAZARDOUS SUBSTANC	CES AND ASBEST	OS (40 CFR 122.	.21(g)(7)(vii))¹
	₩	Presence or	Absence	
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge Available Quantitative Data (specify units)
39.	Guthion		Ø	
40.	Isoprene		<b>V</b>	
41.	Isopropanolamine		V	
42.	Kelthane		<b></b> ✓	
43.	Kepone		<b></b>	
44.	Malathion		<b></b>	
45.	Mercaptodimethur		Ø	
46.	Methoxychlor		<b></b>	
47.	Methyl mercaptan		<b>7</b>	
48.	Methyl methacrylate		<b></b>	
49.	Methyl parathion		7	
50.	Mevinphos		<b>V</b>	
51.	Mexacarbate		<b>7</b>	
52.	Monoethyl amine		V	
53.	Monomethyl amine		Ø	
54.	Naled		<b>7</b>	
55.	Naphthenic acid		<b>7</b>	
56.	Nitrotoluene		Ø	
57.	Parathion		<b>V</b>	

TAB	LE D. CERTAIN HAZARDOUS SUBSTANC			21(g)(7)(vii))¹
	:.	Presence or (check	Absence	
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge Available Quantitative Data (specify units)
58.	Phenolsulfonate		V	
59.	Phosgene		✓	
60.	Propargite		$\square$	
61.	Propylene oxide		<b>V</b>	
62.	Pyrethrins		V	
63.	Quinoline		V	
64.	Resorcinol		$\square$	
65.	Strontium		V	·
66.	Strychnine		✓	
67.	Styrene		✓	
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)		<b></b>	
69.	' ' '		✓	
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]		<b>7</b>	
71.	Trichlorofon		☑	
72.	Triethanolamine		<b></b>	
73.	Triethylamine		Ø	
74.	Trimethylamine		<b>7</b>	
75.	Uranium		V	
76.	Vanadium		V	

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TAB	LE D. CERTAIN HAZARDOUS SUBSTANC	ES AND ASBEST	OS (40 CFR 122	.21(g)(7)(vii))¹	
	Pollutant	Presence of (check			Available Quantitative Data
	i Vilotain	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	(specify units)
77.	Vinyl acetate				
78.	Xylene		Ø		
79.	Xylenol		Ø		
80.	Zirconium		Ø		

<sup>&</sup>lt;sup>1</sup> 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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TAE	LE A. CONVENTIONAL AND N	ON CONVEN	TIONAL POLLUTAI	NTS (40 CF	R 122.21(g)(7)(i	ii)) <sup>1</sup>			:	
		Waiver				Efi	fluent		Inta (Optio	
	Pollutant	Requested (if applicable)	Units (specify)		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 have applied	to your NPDE	S permitting author	ty for a wai	ver for all of the p	ollutants listed on	this table for the not	ted outfall.		***************************************
1.	Biochemical oxygen demand		Concentration	mg/l	5			1		
1.	(BOD₅)		Mass							** ***
2.	Chemical oxygen demand		Concentration	mg/l	ND			1		
۷.	(COD)		Mass			:				
3.	Total organic carbon (TOC)		Concentration	mg/l	3.42	- Additional		1		
э.	Total organic carbon (TOC)		Mass							
4.	Total suspended solids (TSS)		Concentration	mg/l	3.7			1	- AMARIAN I	
4.	Total suspended solids (155)		Mass				LIVERSON	·		
5.	Ammonia (as N)		Concentration	m g/l	ND		and the state of t	1	411000000000000000000000000000000000000	**************************************
IJ.	Annonia (as iv)		Mass				Annual Control of the			
6.	Flow		Rate	MGD	0.0046			1		
7.	Temperature (winter)		°C	°C	16.0			1.		
1.	Temperature (summer)		°C	°C.				1		
0	pH (minimum)		Standard units	s.u.	6.88			1		
8.	pH (maximum)		Standard units	s.u.	6.88			1		

<sup>1</sup> 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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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CI	R 122.21(g)(7)	(v)) <sup>1</sup>		:		
			Presence	or Absence k one)			Efflo	ient			<b>ake</b> ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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 sm 2 through 5 of this table. Note, ho	nall business owever, that y	per the instr you must still	uctions to For indicate in th	m 2C and, therefore, do not e appropriate column of this	need to submit table if you bel	quantitative datieve any of the	a for any of the collutants listed	organic toxic are present i	pollutants in n your disch	n Sections arge.
Section	on 1. Toxic Metals, Cyanide, and	Total Pheno	ols	. (3)		Ministry of			##	1	
1.1	Antimony, total (7440-36-0)			V	Concentration  Mass						
1.2	Arsenic, total (7440-38-2)			<b>4</b>	Concentration Mass						
1.3	Beryllium, total (7440-41-7)			<b></b>	Concentration  Mass						
1.4	Cadmium, total (7440-43-9)			V	Concentration  Mass						
1.5	Chromium, total (7440-47-3)			<b></b>	Concentration Mass		***************************************				
1.6	Copper, total (7440-50-8)			<b></b>	Concentration Mass						
1.7	Lead, total (7439-92-1)			<b></b>	Concentration Mass	<u> </u>					
1.8	Mercury, total (7439-97-6)		П	<b>V</b>	Concentration  Mass			***************************************			
1.9	Nickel, total (7440-02-0)	П		<b>V</b>	Concentration Mass						
1.10	Selenium, total (7782-49-2)			<b></b>	Concentration  Mass						
1.11	Silver, total (7440-22-4)		Ш	<b></b>	Concentration  Mass						

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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 CF	R 122.21(g)(7)	)(v)) <sup>1</sup>		:		
		1.4.	Presence	or Absence ck one)				uent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	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)			Ø	Concentration Mass						
1.13	Zinc, total (7440-66-6)			V	Concentration Mass			NOTE:			
1.14	Cyanide, total (57-12-5)			V	Concentration Mass						
1.15	Phenols, total			Z	Concentration Mass					***************************************	
Section	on 2. Organic Toxic Pollutants (	GC/MS Fract	ion—Volati	e Compound	is),				-		
2.1	Acrolein (107-02-8)			V	Concentration Mass						
2.2	Acrylonitrile (107-13-1)			Ø	Concentration Mass						
2.3	Benzene (71-43-2)			7	Concentration Mass						
2.4	Bromoform (75-25-2)			Ø	Concentration Mass						
2.5	Carbon tetrachloride (56-23-5)			Ø	Concentration Mass			77.000			
2.6	Chlorobenzene (108-90-7)			Ø	Concentration  Mass						
2.7	Chlorodibromomethane (124-48-1)			Ø	Concentration  Mass						
2.8	Chloroethane (75-00-3)			Ø	Concentration Mass			•		307/10/100	

IADL	E B. TOXIC METALS, CYANIDE,	TOTAL FILE	Presence or Absence (check one)			K 122.21(g)(1)		uent			Intake (optional)	
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass	<u>.</u>						
2.10	Chloroform (67-66-3)			Ø	Concentration Mass							
2.11	Dichlorobromomethane (75-27-4)			<b></b>	Concentration Mass							
2.12	1,1-dichloroethane (75-34-3)			V	Concentration Mass							
2.13	1,2-dichloroethane (107-06-2)			V	Concentration Mass							
2,14	1,1-dichloroethylene (75-35-4)			<b>7</b>	Concentration Mass			**************************************				
2.15	1,2-dichloropropane (78-87-5)			<b>7</b>	Concentration Mass							
2.16	1,3-dichloropropylene (542-75-6)			Ø	Concentration Mass							
2.17	Ethylbenzene (100-41-4)			<b>V</b>	Concentration Mass							
2.18	Methyl bromide (74-83-9)			7	Concentration Mass	n (vannouseum )						
2.19	Methyl chloride (74-87-3)			V	Concentration Mass							
2.20	Methylene chloride (75-09-2)			Ø	Concentration Mass		THE STATE OF THE S					
2.21	1,1,2,2- tetrachloroethane (79-34-5)			Ø	Concentration Mass							

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TABL	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANT	S (40 CF	R 122,21(g)(7)	(v)) <sup>1</sup>				
			Presence	or Absence ck one)					uent			lake lional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			V	Concentration  Mass							
2.23	Toluene (108-88-3)			Ø	Concentration Mass			105-00-				
2.24	1,2-trans-dichloroethylene (156-60-5)			Ø	Concentration  Mass ·						amos	
2.25	1,1,1-trichloroethane (71-55-6)			Ø	Concentration Mass							
2.26	1,1,2-trichloroethane (79-00-5)			Z	Concentration Mass							7
2.27	Trichloroethylene (79-01-6)			V	Concentration Mass	***************************************					11 1417/04	
2.28	Vinyl chloride (75-01-4)			Ø	Concentration Mass							, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Section	on 3. Organic Toxic Pollutants	(GC/MS Fract	ion—Acid (	ompounds)				· · · · · · · · · · · · · · · · · · ·	<u> </u>			· · · · · · · · · · · · · · · · · · ·
3.1	2-chlorophenol (95-57-8)			Ø	Concentration Mass							L
3.2	2,4-dichlorophenol (120-83-2)			Ø	Concentration Mass							
3.3	2,4-dimethylphenol (105-67-9)			Ø	Concentration Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)			Ø	Concentration Mass			, , , , , , , , , , , , , , , , , , , ,		•		
3.5	2,4-dinitrophenol (51-28-5)			Ø	Concentration Mass		***************************************					

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TABL	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (	(40 CFI	R 122,21(g)(7)	(v)) <sup>1</sup>				
			Presence	or Absence ck one)					uent	The state of the s		ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			Image: section of the	Concentration  Mass		-		***			<u> </u>
3.7	4-nitrophenol (100-02-7)			7	Concentration Mass							
3.8	p-chloro-m-cresol (59-50-7)			V	Concentration Mass							
3.9	Pentachlorophenol (87-86-5)			<b>V</b>	Concentration Mass							
3.10	Phenol (108-95-2)			V	Concentration Mass		10000000000000000000000000000000000000		***************************************			
3.11	2,4,6-trichlorophenol (88-05-2)			Ø	Concentration Mass							
Secti	on 4. Organic Toxic Pollutants	(GC/MS Fract	ion—Base /	Neutral Com	pounds)							
4.1	Acenaphthene (83-32-9)			Ø	Concentration Mass		· · · · · · · · · · · · · · · · · · ·					
4.2	Acenaphthylene (208-96-8)			V	Concentration Mass							
4.3	Anthracene (120-12-7)			Ø	Concentration Mass		· · · · · · · · · · · · · · · · · · ·					
4.4	Benzidine (92-87-5)			Ø	Concentration Mass							
4.5	Benzo (a) anthracene (56-55-3)			Ø	Concentration Mass							
4.6	Benzo (a) pyrene (50-32-8)			V	Concentration Mass							

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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANT	S (40 CF	R 122.21(g)(7)	(v)) <sup>1</sup>	······································			
			Presence	or Absence	gyvan Haraway keepe			Efflo	ıent .			lake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			Ø	Concentration Mass				(ii availaule)			
4.8	Benzo (ghi) perylene (191-24-2)			Ø	Concentration Mass							
4.9	Benzo (k) fluoranthene (207-08-9)			Ø	Concentration Mass		· · · ·	MARKAGA SILA MANAGA A				
4.10	Bis (2-chloroethoxy) methane (111-91-1)			Ø	Concentration Mass				***************************************		-manue.	
4.11	Bis (2-chloroethyl) ether (111-44-4)			Ø	Concentration Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)			Ø	Concentration Mass				***************************************			
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)			Ø	Concentration Mass			***************************************				
4.14	4-bromophenyl phenyl ether (101-55-3)			Ø	Concentration Mass							
4.15	Butyl benzyl phthalate (85-68-7)			<b>7</b>	Concentration  Mass							
4.16	2-chloronaphthalene (91-58-7)			Ø	Concentration  Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)			Ø	Concentration Mass							
4.18	Chrysene (218-01-9)			Ø	Concentration Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)			Ø	Concentration Mass							

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				or Absence ok one			Effluent				Intake (optional)	
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)				Concentration Mass							
4.21	1,3-dichlorobenzene (541-73-1)			V	Concentration  Mass							
4.22	1,4-dichlorobenzene (106-46-7)				Concentration Mass							
4.23	3,3-dichlorobenzidine (91-94-1)			V	Concentration  Mass		anno residenti					
4.24	Diethyl phthalate (84-66-2)			<b></b>	Concentration  Mass							
4.25	Dimethyl phthalate (131-11-3)			Ø	Concentration Mass		***************************************					
4.26	Di-n-butyl phthalate (84-74-2)			Z	Concentration Mass							
4.27	2,4-dinitrotoluene (121-14-2)			V	Concentration  Mass							
4.28	2,6-dinitrotoluene (606-20-2)			Ø	Concentration  Mass		w. evaluation is a second seco					
4.29	Di-n-octyl phthalate (117-84-0)			Ø	Concentration Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)			Z	Concentration Mass							
4.31	Fluoranthene (206-44-0)			Ø	Concentration Mass							
4.32	Fluorene (86-73-7)			Ø	Concentration Mass							

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IABL	TABLE B. TOXIC METALS, CYANIDE, TO		Presence or Absence (check one)		OAIC POLLUTANTS (40 CFR		Effluent				int (opt	take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			Ø	Concentration Mass							
4.34	Hexachlorobutadiene (87-68-3)			<b></b>	Concentration Mass	***************************************			7-17-17-1			
4.35	Hexachlorocyclopentadiene (77-47-4)			<b>V</b>	Concentration Mass	·······································						
4.36	Hexachloroethane (67-72-1)			<b>7</b>	Concentration Mass	<b>4</b>			* *************************************			
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)			<b>V</b>	Concentration Mass	-						
4.38	Isophorone (78-59-1)				Concentration Mass							
4.39	Naphthalene (91-20-3)				Concentration Mass						***************************************	
4.40	Nitrobenzene (98-95-3)			Ø	Concentration Mass				***************************************			
4.41	N-nitrosodimethylamine (62-75-9)			<b>V</b>	Concentration Mass	•						
4.42	N-nitrosodi-n-propylamine (621-64-7)			<b>V</b>	Concentration Mass							
4.43	N-nitrosodiphenylamine (86-30-6)		П	Ø	Concentration Mass	<del></del>						
4.44	Phenanthrene (85-01-8)			Ø	Concentration Mass							
4.45	Pyrene (129-00-0)			Ø	Concentration Mass				TOTAL CONTRACTOR OF THE STATE O			

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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40 C	FR 122.21(g)(7)	(v)) <sup>1</sup>				
			Presence	or Absence			4 4 4 4 1	uent			t <b>ake</b> ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			V	Concentration Mass	and the same of th					
Section	on 5. Organic Toxic Pollutants (G	C/MS Fract	on—Pestic	ides)						<u></u>	
5.1	Aldrin (309-00-2)			Ø	Concentration Mass		****				
5.2	a-BHC (319-84-6)			Ø	Concentration Mass						
5.3	β-BHC (319-85-7)			Ø	Concentration Mass						
5.4	γ-BHC (58-89-9)			<b>V</b>	Concentration Mass		*****	-106			
5.5	δ-BHC (319-86-8)			Ø	Concentration  Mass		0 0000000000000000000000000000000000000				
5.6	Chlordane (57-74-9)			Ø	Concentration  Mass						
5.7	4,4'-DDT (50-29-3)			Ø	Concentration Mass						
5.8	4,4'-DDE (72-55-9)			Ø	Concentration Mass						
5.9	4,4'-DDD (72-54-8)			Ø.	Concentration  Mass						
5.10	Dieldrin (60-57-1)			Ø	Concentration Mass						
5.11	α-endosulfan (115-29-7)		П	Ø	Concentration Mass						

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		1 1 8 9 2 1 3 2		or Absence ck one)			Effl	<b>uent</b>			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	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)			Ø	Concentration Mass						
5.13	Endosulfan sulfate (1031-07-8)			Ø	Concentration Mass						
5.14	Endrin (72-20-8)			Ø	Concentration Mass						
5.15	Endrin aldehyde (7421-93-4)			<b>7</b>	Concentration Mass			*****			
5.16	Heptachlor (76-44-8)			V	Concentration Mass				THE STATE OF THE S		
5.17	Heptachlor epoxide (1024-57-3)			<b>V</b>	Concentration Mass						
5.18	PCB-1242 (53469-21-9)			<b></b>	Concentration Mass						
5.19	PCB-1254 (11097-69-1)			Ø	Concentration Mass						
5.20	PCB-1221 (11104-28-2)			<b></b>	Concentration Mass						-
5.21	PCB-1232 (11141-16-5)			Ø	Concentration Mass			*****			-
5.22	PCB-1248 (12672-29-6)			Ø	Concentration Mass			· · · · · · · · · · · · · · · · · · ·			
5.23	PCB-1260 (11096-82-5)			Ø	Concentration Mass						
5.24	PCB-1016 (12674-11-2)			Ø	Concentration  Mass						

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TAB	LE B. TOXIC METALS, CYANIC	E, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTAN	TS (40 CF)	R 122.21(g)(7)	(v)) <sup>1</sup>		. :		
				or Absence ck one				Effl	uent			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		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)			Ø	Concentration  Mass							

<sup>1</sup> 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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TAE	TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))1												
		Presence o (check					Efflu	ent	*	Inta (Optio			
	Pollutant	Believed Present	Believed Absent	Units (specify)			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 be each pollutant.	elieve all polluta	ints on Table (	C to be <i>present</i> in y	our discha	rge from the noted o	utfa <b>ll</b> . You need <i>n</i>	ot complete the "P	resence or Abse	ence" column of T	able C for		
	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)		V	Concentration Mass				-41					
2.	Chlorine, total residual	<b>V</b>		Concentration Mass	mg/l	0.00			1				
3,	Color		<b>7</b>	Concentration Mass									
4.	Fecal coliform		<b>7</b>	Concentration Mass	•••		·	, ,					
5.	Fluoride (16984-48-8)		7	Concentration  Mass				1000					
6	Nitrate-nitrite	☑		Concentration Mass	mg/l	1.02			1				
7.	Nitrogen, total organic (as N)	<b></b>		Concentration Mass	mg/l	1.32			1				
8.	Oil and grease		7	Concentration  Mass									
9.	Phosphorus (as P), total (7723-14-0)	<b></b>		Concentration Mass	mg/l	0.06			1	***************************************			
10.	Sulfate (as SO <sub>4</sub> ) (14808-79-8)		Ø	Concentration Mass			AATAATTITAA TII TII TAAAAA WAAAAA TAAAAA AATAA A AATAA AATAAAA AATAA AATAAAAAA						
11.	Sulfide (as S)		Ø	Concentration  Mass									

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1 1 1 1 1 1 1		Presence or Absence (check one)		NVENTIONAL POLLUTANT	(10 01 N 122.21(g	Effluent				
	Pollutant	Believed Present	Believed Absent	Units (specify)	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 <sub>3</sub> ) (14265-45-3)			Concentration Mass						-
13.	Surfactants		Ø	Concentration  Mass		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
14.	Aluminum, total (7429-90-5)		Ø	Concentration Mass			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
15.	Barium, total (7440-39-3)		<b></b>	Concentration Mass	The state of the s	, 111,200,000,000		111.0		
16.	Boron, total (7440-42-8)		V	Concentration Mass						
17.	Cobalt, total (7440-48-4)		Ø	Concentration Mass		TOOL TOOL TOOL TO THE TOOL TO				
18.	Iron, total (7439-89-6)		Ø	Concentration Mass		, - ,,,,,,,,,,				
19.	Magnesium, total (7439-95-4)		$\Box$	Concentration Mass						
20.	Molybdenum, total (7439-98-7)		Z	Concentration  Mass						
21.	Manganese, total (7439-96-5)		Ø	Concentration Mass						
22.	Tin, total (7440-31-5)		Ø	Concentration Mass					,	
23.	Titanium, total (7440-32-6)		Ø	Concentration Mass						

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	LE C. CERTAIN CO	Presence or Absence (check one)		V. T		Effluent				Intake (Optional)		
	Pollutant	Believed Present	Believed Absent	Units (specify)		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		Ø	Concentration								
	Aipha, Iolai	<u></u>		Mass								
	Data total		<b>✓</b>	Concentration								
	Beta, total			Mass				·				
	Dadium total			Concentration							. 17-12-1	
	Radium, total			Mass								
	Dadium 226 total		[7]	Concentration								
	Radium 226, total			Mass								

<sup>&</sup>lt;sup>1</sup> 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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TAE	ABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹												
	##	Presence or											
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)								
1.	Asbestos		✓										
2.	Acetaldehyde		V										
3.	Allyl alcohol		Ø										
4.	Allyl chloride		<b>V</b>										
5.	Amyl acetate		<b></b>										
6.	Aniline		☑										
7.	Benzonitrile		☑										
8.	Benzyl chloride		☑										
9.	Butyl acetate		Ø										
10.	Butylamine		Ø										
11.	Captan		✓										
12.	Carbaryl		Ø										
13.	Carbofuran		$\square$										
14.	Carbon disulfide		☑		THAT AND A SECOND								
15.	Chlorpyrifos		Ø										
16.	Coumaphos		Ø										
17.	Cresol		Ø										
18.	Crotonaldehyde		Ø										
19.	Cyclohexane		Ø										

EPA Form 3510-2C (Revised 3-19)

EPA Identification Number NPDES Permit Number Facility Name Outfall Number

110070001339 VA0002151 Marine Corps Base Quantico 035

TAE	LE D. CERTAIN HAZARDOUS SUBSTANC			.21(g)(7)(vii))¹			
		Presence or (check					
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)		Ø				
21.	Diazinon		✓	V-12/00-1-10-10-1-10-1-10-1-10-1-10-1-10-			
22.	Dicamba		V				
23.	Dichlobenil		<b></b>				
24.	Dichlone		<b>7</b>				
25.	2,2-dichloropropionic acid		<b>V</b>	·	And a description		
26.	Dichlorvos		<b>V</b>				
27.	Diethyl amine		<b>~</b>		100		
28.	Dimethyl amine		V				
29.	Dintrobenzene		✓				
30.	Diquat		✓				
31.	Disulfoton		<b></b>				
32.	Diuron		V				
33.	Epichlorohydrin						
34.	Ethion		✓				
35.	Ethylene diamine		<b>7</b>				
36.	Ethylene dibromide		7				
37,	Formaldehyde		<b>7</b>				
38.	Furfural		<b>V</b>				

Form Approved 03/05/19 OMB No. 2040-0004 
 EPA Identification Number
 NPDES Permit Number
 Facility Name
 Outfall Number
 Form Approved 03/05/19

 110070001339
 VA0002151
 Marine Corps Base Quantico
 035
 OMB No. 2040-0004

TAB	TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹							
	Pollutant	Presence or	Absence					
	Pollutant	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)			
39.	Guthion		✓					
40.	Isoprene		<b>7</b>	- ANN AND THE PARTY OF THE PART				
41.	Isopropanolamine		$\square$					
42.	Kelthane		<b>V</b>					
43.	Kepone		$\square$					
44.	Malathion		<b></b>					
45.	Mercaptodimethur		Ø					
46.	Methoxychlor		✓					
47.	Methyl mercaptan		✓					
48.	Methyl methacrylate		<b></b>					
49.	Methyl parathion		✓					
50.	Mevinphos							
51.	Mexacarbate		<b>V</b>					
52.	Monoethyl amine		<b>\</b>					
53.	Monomethyl amine		<b>V</b>					
54.	Naled		Ø					
55.	Naphthenic acid		☑					
56.	Nitrotoluene		V					
57.	Parathion		☑					

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

TAB	TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) <sup>1</sup>								
	P. II. d.	Presence or (check							
	Pollutant	Believed	Believed	[하는 하다 하는 사람들은 사람들이 되었다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	Available Quantitative Data (specify units)				
c D	Phone Lauffernate	Present	Absent						
	Phenolsulfonate		✓						
59.	Phosgene		V						
60.	Propargite		abla						
61.	Propylene oxide		abla						
62.	Pyrethrins		<b>✓</b>						
63.	Quinoline		<b></b>						
64.	Resorcinol		<b>V</b>						
65.	Strontium		<b>V</b>						
66.	Strychnine		<b>\</b>						
67.			<b>V</b>						
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)		<b></b>						
69.	TDE (tetrachlorodiphenyl ethane)		✓						
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]		V						
71.	Trichlorofon		<b>V</b>						
72.	Triethanolamine		<b>V</b>						
73.	Triethylamine		<b></b>						
74.	Trimethylamine		<b>7</b>						
75.	Uranium		<b>7</b>						
76.	Vanadium		<b>7</b>						

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

TAE	TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹											
	Pollutant	Presence or Absence		Reason Pollutant Relieved Present in Discharge Available Quantitative Data								
	1 Officially	Believed Present	Believed Absent	Reason Pollutant Believed Present in Discharge (specify units)								
77.	Vinyl acetate		Ø									
78.	Xylene		Ø									
79.	Xylenol		Ø									
80.	Zirconium		V									

<sup>&</sup>lt;sup>1</sup> 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

Phone:

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:

Signature

Name

Prastent Divotor Til

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

#### <u>Analyses</u>

Biochemical Oxygen Demand (BOD) 5 Day	SM 5210 B (2011)						
	<b>Test Result</b>	<u>Unit</u>	<u>RL</u>	<u> Analysis Date</u>	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		10/12/2022 13:55	BS		
Sample Receipt Temperature	1	С		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						
	<b>Test Result</b>	<u>Unit</u>	RL	<b>Analysis Date</b>	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	С		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)						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	<u>Analysis By</u>	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		10/13/2022 17:37	BS		
Sample Receipt Temperature	1	С		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						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	Analysis By	<b>Qualifier</b>	Cert #
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	С		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**

Glussaly of 16	rms and Appreviations
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.
В	Analyte was found in the method blank
D	RPD outside acceptable limits
н	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 Limitis 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 Verfication	(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 simulatanously 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 effectivenss 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 occured.
*	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.



# Microbac Laboratories Inc., - Marietta, OH CERTIFICATE OF ANALYSIS

### M2J0907

Universal Laboratories, Inc.

Dan Thornton 20 Research Drive Hampton, VA 23666 Project Name: Universal Labs

Project / PO Number: 101322-008

Received: 10/14/2022 Reported: 10/20/2022

Sample Summary Report

<u>Sample Name</u> 2209180-001 E Laboratory ID M2J0907-01 **Client Matrix** 

Sample Type

Sample Begin

Sample Taken

Lab Received

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: Sample Matrix: Lab Sample ID:	2209180-001 E Aqueous M2J0907-01					Collection	Date: 10/12/	2022 13 42	
Inorganics Total	***************************************	Result	RL	Units	DF	Note	Prepared	Analyzed	Analys
SM 5310 C-2011				2.5					
Total Organic Carbo	n - 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 Lo	9								
Cooler ID:	Default Cooler	Temp:	1.4°C			b - 500			
Cooler Inspection	Checklist						*		
Ice Present or no	ot required?		Yes	Shippin	g containe	rs sealed o	r not required?		. Ye
Custody seals in	tact or not required?		Yes	Chain o	f Custody	(COC) Pres	sent?		Ye
COC includes cu	stomer information?		Yes	Relinqu	ished and	received sig	gnature on COC?		Ye
Sample collector	identified on COC?		Yes	Sample	type ident	tified on CO	C?		Ye
Correct type of C	ontainers Received		Yes	Correct number of containers listed on COC?					Ye
Containers Intac	?		Yes	COC includes requested analyses?					Ye
Enough sample	volume for indicated tests re	ceived?	Yes	Sample	labels ma	tch COC (N	lame, Date & Time	?)	Ye
Samples arrived	within hold time?		Yes	Correct	preservati	ves on CO	C or not required?		Ye
	vations checked or not requ		Yes	Preserv	ation chec	ks meet me	ethod requirement	s?	Ye
VOA vials have z	ero headspace, or not recd	?	Yes						

#### Report Comments

460187

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 <a href="https://www.microbac.com/standard-terms-conditions">https://www.microbac.com/standard-terms-conditions</a>.

Reviewed and Approved By:

Alicia Walker Project Manager

Virginia Department of General Services

Reported: 10/20/2022 11:22

Microbac Laboratories, Inc.

### Subcontract Chain of Custody/ PO#

20 Research Drive Hampton, VA 23666

101322-008 Microbac OVD

Phone: 757-865-0880 Fax: 757-865-8014

UL Contact: Dan Thornton

Attn: Sample Receiving

Email: d.thornton@universallaboratories.net

Sample #	Sample Location	Test	Sample Date/ Time
2209180-001 E	OF-016 Grab	Organic Carbon, Total - SUB	10/12/2022 1:42PM
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<u></u>		· · · · · · · · · · · · · · · · · · ·	10/12 8/14 8/1/16 19/1/ 2/1/1/ 1/1/ 1/20/ ! J O 9 O 7
		Universal Laborato Recd 10/14/2022 10 15 By Brenda Gregory	
		By Brenda Gregory	*emp   4 (Sonature)
Comments:	VA Certification Required		Cooler Temp:
comments:	VA CELLINCATION KERTINEO		Preservation:
Date/Time	Relinguish By	↑ Receive_By	Date/Time
10-13-22 1400	WALL	. Wende (Hugoy	
		100	1277

# MICROBAC<sup>®</sup>

COOLER TEMP >6° C LOG

, 00	Rottle 1	Datale 3	Dadla 3	D 141 6	5 413 5	
<u></u>	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6
SAMPLE ID	°C	°C	.ºC	°C	°C_	°C
			<u> </u>	<u> </u>		
			7/30002			
		10/	410			
				<del></del>		
	<del> </del>					
<del>/</del>	<u> </u>					<u> </u>
H Lot #HCA9 150						

pH Lot # <u>HCA9 15</u> 9	D	рН	Exceptions			
SAMPLE ID	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6
			<u> </u>	W)		
			12000	[		
		10	12000			
		<u></u>	T .			
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<b>}</b>		PRESE	RVATI.	<u> </u>		
		EX.	PTIONS			
<del>                                     </del>		4/CE	L110142			
<u> </u>			NONE			

Document Control # 1957 Last 04-10-2019

\_\_AS NOTED

10/14/2022 Sm | Issued to: Document Master File

Sample Date/Time/Initials

# **CHAIN OF CUSTODY**

3250 Catlin Avenue Quantico, VA, 22134

ID: 2209180

20 Research Drive

Preservation Testing

Hampton, VA 23666 1-800-695-2162

http://www.universallaboratories.net

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

UL\_Sample

ID

Matrix

Client PO/Project Name

**Marine Base Quantico NREA** 

Sample Name

Form 2C Table A OF-016

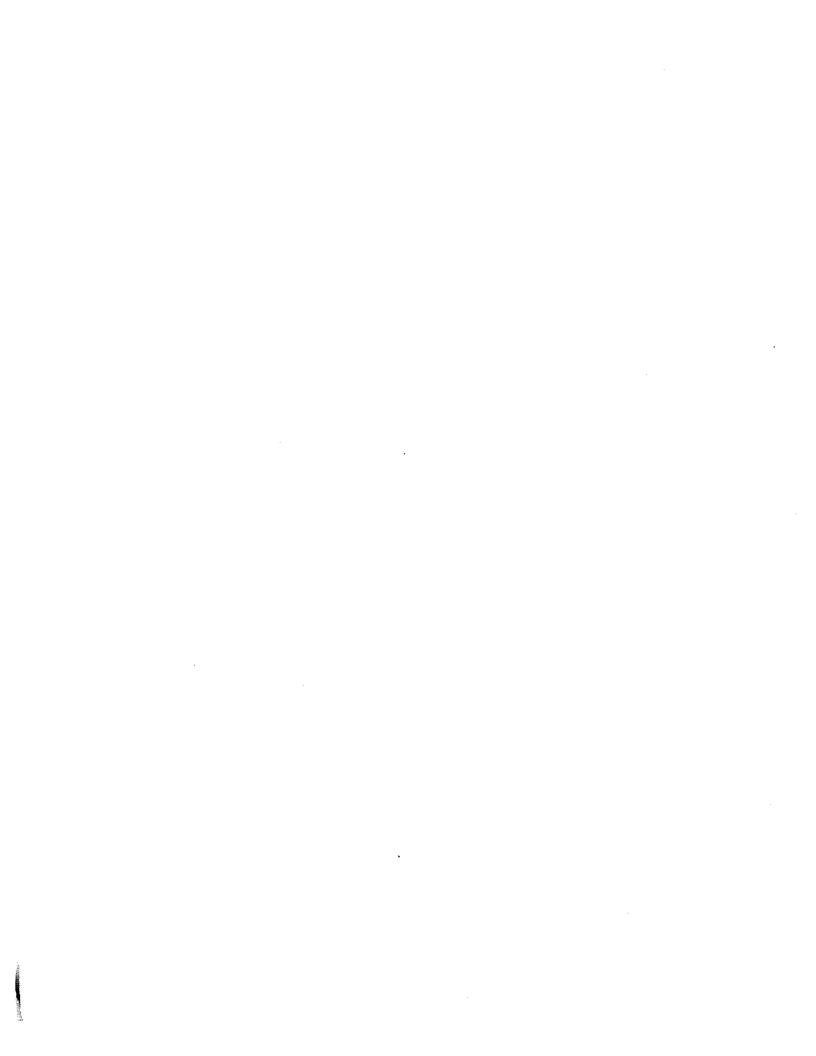
BottleID

Sample

Container

Page 1 of 1

OF-016 Grab	2209180-001	AQUEOUS		1/HDPE	H2SO4/<6°C /4w	aste, BOD, COD, TOC, TSS, NH3
		AQUEOUS		1/HDPE	<6°C	
		AQUEOUS	- 0150	1C 2/HDPE	<6°C	
		AQUEOUS 7	0	01D 500/HDPE	H2SO4/<6°0	
		AQUEOUS V	01	150/HDPE	H2SO4/<6°C	100
NOTES:	CN int check B	OD int check N	H3 int check			CoolerTemp//NA C
- Hollot Int Ollock		ob int cilocke	no me chock			
TRANSFER	SIGNATURE	DATE/T	ME TRANSFER	SIGNATURE	000	DATE/TIME
					731///	- , - ,
Relinquished by	- And	10/12/0	a (00%) Received by		///	10/12/20 10:00
Relinquished by Relinquished by	- Jan	- 10/12/0	Received by Received by		HIIN.	
········		- IUJIZ/a			///	10/p/22 10:06 - 10/17/22/3:06





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:

Signature

Name

Title

**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

#### <u>Analyses</u>

Biochemical Oxygen Demand (BOD) 5 Day	SM 5210 B (2011)						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	<u>Analysis By</u>	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		10/13/2022 10:53	BS		
Sample Receipt Temperature	1	С		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						
	Test Result	<u>Unit</u>	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	С		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)						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	Analysis By	<b>Qualifier</b>	Cert #
Holding Time Met	Yes	Yes/No		10/13/2022 17:37	B\$		
Sample Receipt Temperature	1	С		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						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	Analysis By	<b>Qualifier</b>	Cert #
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	С		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.
В	Analyte was found in the method blank
۵	RPD outside acceptable limits
н	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 Limitis 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 Verfication	(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 simulatanously 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 effectivenss 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 occured.
*	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.



#### 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

Sample Name 2209181-001 E <u>Laboratory ID</u> M2J0909-01 Client Matrix

Aqueous

Sample Type

Sample Begin

Sample Taken

Lab Received

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: Sample Matrix: Lab Sample ID:	2209181-001 E Aqueous M2J0909-01					Collection	Date: 10/12/	2022 9:40	
Inorganics Total		Result	RL	Units	DF	Note	Prepared	Analyzed	Analys
SM 5310 C-2011									
Total Organic Carbo	n - 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							Service Control States of the Control States	
Cooler Receipt Lo	g								
Cooler ID:	Default Cooler	Temp	1.4°C						
Cooler Inspection	Checklist								
Ice Present or no	ot required?		Yes	Shippin	g containe	rs sealed o	r not required?		Ye
Custody seals in	tact or not required?		Yes	Chain of Custody (COC) Present?					Ye
COC includes cu	stomer information?		Yes	Relinquished and received signature on COC?					Ye
Sample collector	identified on COC?		Yes	Sample	type ident	tified on CO	C?		Ye
Correct type of C	ontainers Received		Yes	Correct	number of	f containers	listed on COC?		Ye
Containers Intact	?		Yes	COC in	cludes req	uested ana	lyses?		Yes
Enough sample v	volume for indicated tests r	eceived?	Yes	Sample	labels ma	tch COC (N	lame, Date & Time	?)	Ye
Samples arrived	within hold time?		Yes				C or not required?		Ye
Chemical presen	vations checked or not requ	uired?	Yes	Preserv	ation chec	ks meet me	ethod requirements	s?	Ye
VOA vials have z	ero headspace, or not reco	1.?	Yes						

#### **Report Comments**

460187

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 <a href="https://www.microbac.com/standard-terms-conditions">https://www.microbac.com/standard-terms-conditions</a>>.

Reviewed and Approved By:

Alicia Walker Project Manager

Virginia Department of General Services

Reported 10/20/2022 11:21

Microbac Laboratories, Inc.

#### Subcontract Chain of Custody/ PO#

20 Research Drive Hampton, VA 23666

Phone: 757-865-0880 Fax: 757-865-8014

UL Contact: Dan Thornton

Email: d.thornton@universallaboratories.net

101322-009 Microbac OVD

Attn: Sample Receiving

Sample #	Sample Location	Test	Sample Date/ Time
2209181-001 E	OF-035 Grab	Organic Carbon, Total - SUB	10/12/2022 9:40AM
]			
			<del></del>
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			<del>                                     </del>
	1	-	
·		I IZETERIZATE MENER AN	<u> </u>
			0 9 0 9
<u> </u>			
MANAGE		Universal Laboratories Recid. 10/14/2022 10/15 By Brenda Grecory Temp	°'' ¬
		By Branda Gregory Temp	1.4 Isonatore)
Comments:	VA Certification Required		Cooler Temp: - (
			Preservation:
Date/Time	Religquish By	Λ Receive By	Date/Time
10-13-22 1400	HALL	Walney (rugory	1014 328 1015
	<u> </u>	12	The second secon

 MICROBAC<sup>®</sup> Work Order # COOLER TEMP >6° C LOG Bottle 1 Bottle 2 Bottle 3 Bottle 4 Bottle 5 SAMPLE ID ٥C ٥Ç °C °C ٥С 10 100 3 Stor nH 1 of #HP 19 150 0

pH Lot # <u>HC 49 15</u> 9	0	рН	Exceptions			
SAMPLE ID	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6
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			<u> </u>	<del> </del>		
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			RVATIV	<u> </u>		
		EXCE	PTIONS			
		V	NONE			
		AS	NOTED			

Document Control # 1957 Last 04-10-2019

1 - 1 : 1 -	
10/14/2022 Sm	
The state of	_

Issued to: Document Master File

Bottle 6

ОC

# **CHAIN OF CUSTODY**

3250 Catlin Avenue

**Marine Base Quantico NREA** 

Quantico, VA, 22134

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

Client PO/Project Name

ID: 2209181

Form 2C Table A OF-035

20 Research Drive

Hampton, VA 23666

1-800-695-2162

http://www.universallaboratories.net

Page 1 of 1

Sample I	Name	UL_Sample ID	Matrix	Sample Date/Ti	ime/Initials	BottleID	Sample Container	Preservation	Testing
OF-035 Grab		2209181-001	AQUEOUS	1011212002 9	tigo (XV	001A	1/HDPE	H2SO4/<6°C	aste, BOD, COD, TOC, TSS, NH3
			AQUEOUS	TOTO DOCK	101	001B	1/HDPE	<6°C	
			AQUEOUS	<i>f</i> ,	/ /	001C	2/HDPE	<6°C	
			AQUEOUS	/		001D	500/HDPE	H2SO4/<6°C (C)	
			AQUEOUS			001E	150/HDPE	H2SO4/<6°C	
Phenol int check	CN int check		) int check	NH3 int chec	TRANSFER	SION	ATURE)		_CoolerTemp_///OCC
	JONATURE	7					ATORE	9/	DATE/TIME
Relinquished by	Jan .			10/12/29 1000	Received by	1/2	-X	Slan	10/12/22/0
Relinquished by					Received by	LAC		JOHN	10/12/22/3
Relinquished by					Received by	,			1//
Relinquished by					Received by	,			

,		

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

# **U.S Environmental Protection Agency**

Form 2F NPDES	<b>%</b> E	<b>PA</b>	Application for NPDES Permit to Discharge Wastewater STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY						
SECTION	I 1. OUT	FALL LOCA	TION (40 CFR 122.21(g						
Same of the Same o	1.1	Provide info	ormation on each of the		n the table b	elow			
		Outfall Number	Receiving Water Na	me	Latitud	e		Longitude	
			See enclosed Table 2F	.1.1	,	,,	٠	,	"
ocatio				•	,	"	0	,	n
Ouffall Location				G	,	н		,	"
Ö				0	,	Ħ	o	,	"
	:			۰	,	,,	۰	,	"
				•	,	"		,	"
SECTION			(40 CFR 122.21(g)(6))						
	2.1	upgrading,	sently required by any f or operating wastewate ischarges described in t	r treatment equipr		ctices or any oth		tal programs	
	2.2	Briefly identify each applicable project in the table below.							
		Brief I	dentification and	Affected Outfall	s	Source(s) of Dis	-haraa	Final Comp	liance Dates
		Descr	iption of Project	(list outfall number	3)	cource(s) or Disi	Sisarye	Required	Projected
ø						ANATON I			
nprovements									
mprov	:								
									-
									-
	2.3		ttached sheets describir fect your discharges) that					environmenta	al projects
		Yes	soc your alconorgoof the		No No	Lanina (opin			

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

EPA I	dentification	n Number	NPDES Permit Number		Facility Name		proved 03/05/19			
13	1007000:	1339	VA0002151	Marine C	orps Base Quantico	OM	B No. 2040-0004			
SECTION	V 3. SITE	DRAINAGE N	IAP (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 instruction specific guidance.)								
ū		<b>☑</b> Yes		□ No						
SECTION	4. POL	LUTANT SOU	RCES (40 CFR 122.26(c)(1)(i)(B))							
	4.1									
		Outfall Number	Impervious Surface Area Total Surface Area Drained (within a mile radius of the facility) (within a mile radius of the facility)							
			See enclosed Table 2F.4.1	specify units			specify units			
				specify units			specify units			
				specify units			specify units			
				specify units			specify units			
Pollutant Sources				specify units			specify units			
				specify units			specify units			
	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 po									
	7.0	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.)								
				Stormwater Tr	eatment					
		Outfall Number	Co	ntrol Measures	and Treatment		from Exhibit 2F-1 (list)			
			See Attachment 2F.4.3							
						AND THE RESERVE OF THE PERSON				
					· · · · · · · · · · · · · · · · · · ·					

EPA Form 3510-2F (Revised 3-19) Page 2

EPA	Identificatio	on Number	NPDES Permit Number	Fa	cility Name	Form Approved 03/05/19
:	11007000	1339	VA0002151	Marine Co	rps Base Quantico	OMB No. 2040-0004
SECTIO	N 5. NO	N STORMWA	TER DISCHARGES (40 CFR 122.2	6(c)(1)(i)(C))		
	5.1	I certify und presence of discharges Name (print) Signature	der penalty of law that the outfally of non-stormwater discharges. Morare described in either an accompanion type first and last name)  CER CHRETE  testing information requested in the	(s) covered by the reover, I certify nying NPDES Fo	that the outfalls identified in the outfalls identified identified in the outfalls identified identified in the outfalls identified identi	ied as having non-stormwater ation.  OMMENTAL  C70(Z  Onsite Drainage Points
Non-Stormwater Discharges		Number	Description of Testing M		Date(s) of Testi	ng Directly Observed During Test
Significant Leaks or Spills	6.1	Describe any	AKS OR SPILLS (40 CFR 122.26(c) y significant leaks or spills of toxic of the significant leaks or spills of the significant leaks of the significant leaks of t	r hazardous pollu	atants in the last three ye	ars.
Discharge Information	See the complet 7.1	instructions to e. Not all appli ls this a new Yes - estima A, B, C, and D	DRMATION (40 CFR 122.26(c)(1)(i) of determine the pollutants and pararicants need to complete each table. source or new discharge? See instructions regarding submisted data.  multiple of the property of the	meters you are re	No → See instruction actual data.	n turn, the tables you must
<b>₽</b>		☐ Yes			No	

EPA Form 3510-2F (Revised 3-19) Page 3

EPA Identification Number			NPDES Permit Number	Fac	lity Name	Form Approved 03/05/19			
110070001339			VA0002151		os Base Quantico	OMB No. 2040-0004			
	7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater?							
一点の最		☐ Yes		<b>V</b>	No → SKIP to Ite	m 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?							
		☐ Yes			No				
	7.5	7.5 Do you know or have reason to believe any pollutants in Exhibit 2F–2 are present in the discharge?							
		☐ Yes		$\square$	No → SKIP to Ite	m 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?							
		☐ Yes			No				
	7.7	Do you qua	Oo you qualify for a small business exemption under the criteria specified in the Instructions?						
		☐ Yes	→SKIP to Item 7.18.	<b>✓</b>	No				
	7.8	Do you kno	w or have reason to believe any polluta	nts in Exhibit 2	-3 are present in the	ne discharge?			
		☐ Yes		<b>✓</b>	No → SKIP to Ite	m 7.10.			
tinued	7.9	Have you lis Table C?	sted all pollutants in Exhibit 2F–3 that y	ou know or hav	e reason to believe	are present in the discharge in			
Con		☐ Yes			No				
ition	7.10	Do you expect any of the pollutants in Exhibit 2F–3 to be discharged in concentrations of 10 ppb or greater?							
orma		☐ Yes		$\square$	No → SKIP to Iter	n 7.12.			
Discharge Information Continued	7.11		rovided quantitative data in Table C for ons of 10 ppb or greater?	those pollutant	s in Exhibit 2F–3 tha	at you expect to be discharged in			
scha		☐ Yes			No				
O	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?							
		☐ Yes		V	No → SKIP to Iter	m 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?							
		☐ Yes			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)?							
		☐ Yes		<b></b>	No				
	7.15	Do you know	w or have reason to believe any polluta	nts in Exhibit 2f	-4 are present in the	ne discharge?			
		☐ Yes			No → SKIP to Iter	m 7.17.			
	7.16	Have you lis explanation	sted pollutants in Exhibit 2F–4 that you in Table C?	know or believe	to be present in the	e discharge and provided an			
		☐ Yes			No				
	7.17	Have you pr	ovided information for the storm event	s) sampled in T	able D?				
		Yes		✓	No				

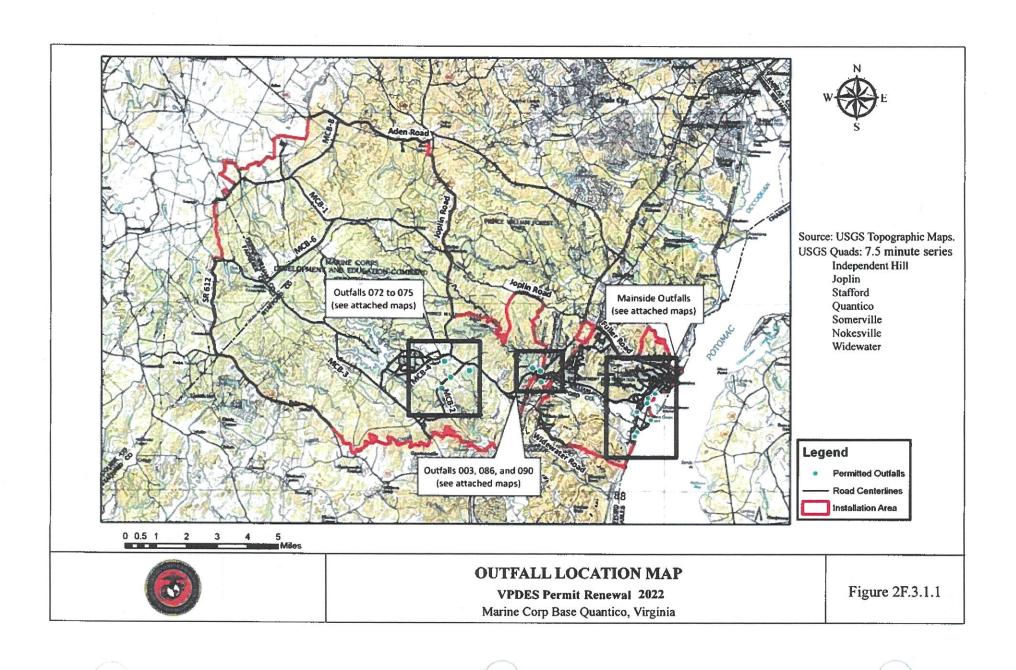
	EPA Identification Number 110070001339		NPDES Permit Number  VA0002151 Marin			Facility Name Jorps Base Qua	ntico	Form Approved 03/05/19 OMB No. 2040-0004		
	Used or Manufactured Toxics									
Discharge Information Continued	7.18	Is any pollutant listed on Exhibits 2F–2 through 2F–4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?								
		☐ Yes				✓ No → SKIP to Section 8.				
	7.19	List the pollutants below, including TCDD if applicable.								
		1.		4.		7.				
harg		2.		5.			8.			
Disc		3.		6.			9.			
SECTIO	N 8. BIO	LOGICAL TO	XICITY TESTING	G DATA (40 CFR 122	.21(a)(11))					
	8.1	Do you have	e any knowledge	······	that any biolo			toxicity has been made on ee years?		
Biological Toxicity Testing Data		☐ Yes				✓ No →	SKIP to Section	n 9.		
ĕ	8.2	Identify the to	ests and their pu	rposes below.			· '' : I			
<b>Toxicit</b>		To	est(s)	Purpose of T	est(s)	Submitted Permitting	Authority?	Date Submitted		
<u> </u>						☐ Yes	□ No			
olog						☐ Yes	□ No			
ä						☐ Yes	□ No			
SECTIO	N 9. CON	ITRACT ANAI	YSIS INFORM	 ATION (40 CFR 122.2	1(a)(12))					
	9.1		the analyses rep	oorted in Section 7 (or		ough C) perfor	med by a contr	act laboratory or		
		✓ Yes				No → SKIP to Section 10.				
	9.2	Provide infor	mation for each	contract laboratory or	consulting fir	m below.				
				Laboratory Nur	nber 1	Laborator	y Number 2	Laboratory Number 3		
mation		Name of labo	oratory/firm	Universal Laboratori	es					
Contract Analysis Information		Laboratory a	ddress	20 Research Drive Hampton, VA 23666	j					
		Phone number	er	(800) 695-2162						
		Pollutant(s) a	nalyzed	All except pH, Total I Chlorine, and Tempe	1					

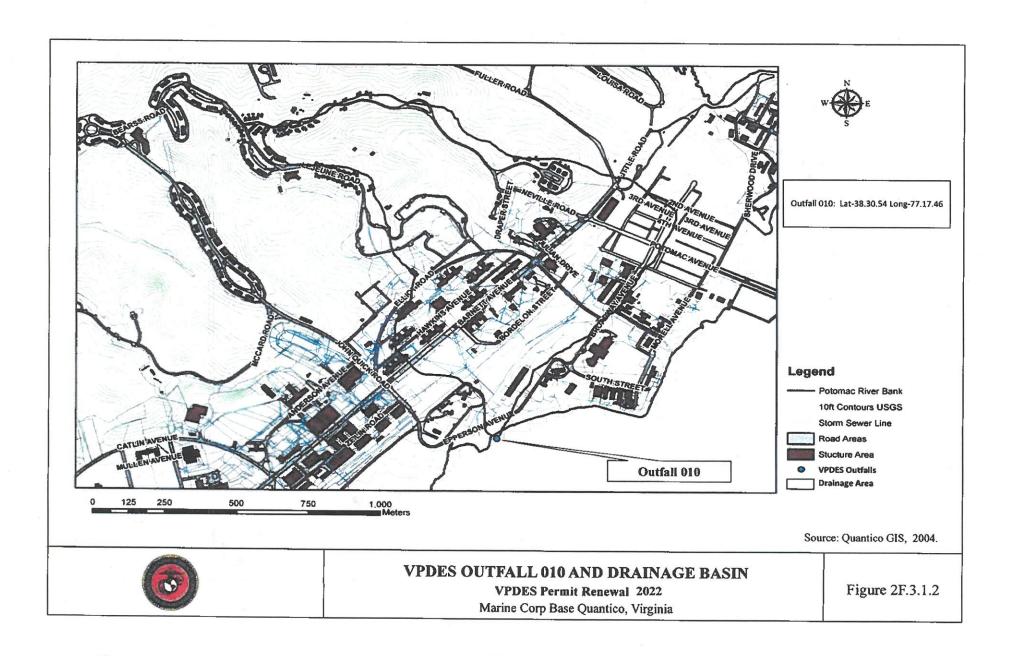
EPA Identification Number NPDES Permit Number Facility Name Form Approved 03/05/19
110070001339 VA0002151 Marine Corps Base Quantico OMB No. 2040-0004

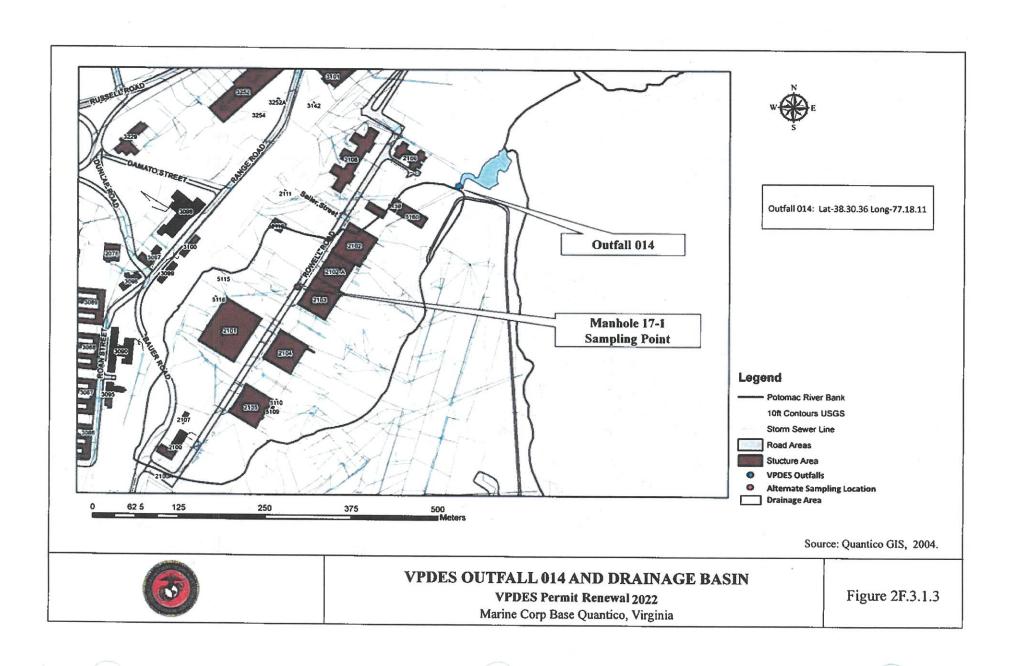
AFATIA	N 40 OI	IEGICIOTALID GEOTISIOATO	ON OTATEMENT (40 OFF 400 OO) 1 (4)					
SECTIO	10.1	IECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))  In Column 1 below, mark the sections of Form 2F that you have completed and are submitting with your application. For each section, specify in Column 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					
		Section 1	w/ attachments (e.g., responses for additional outfalls)					
		Section 2	w/ attachments					
		Section 3	w/ site drainage map					
		Section 4	✓ w/ attachments					
		Section 5 W attachments						
ut.		Section 6	□ w/ attachments					
ateme		Section 7	Table A w/ small business exemption request					
on Sta			Table B w/ analytical results as an attachment					
iificati								
d Cert		Section 8	☐ w/attachments					
Checklist and Certification Statement		Section 9	w/attachments (e.g., responses for additional contact laboratories or firms)					
heck		Section 10						
	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 I	ast name) Official title					
			ENVIRONMENTAL					
		WALTER CH	RISTONSEN DIRECTOR					
		WALTER CH Signature	Date signed					
		as	20221215					

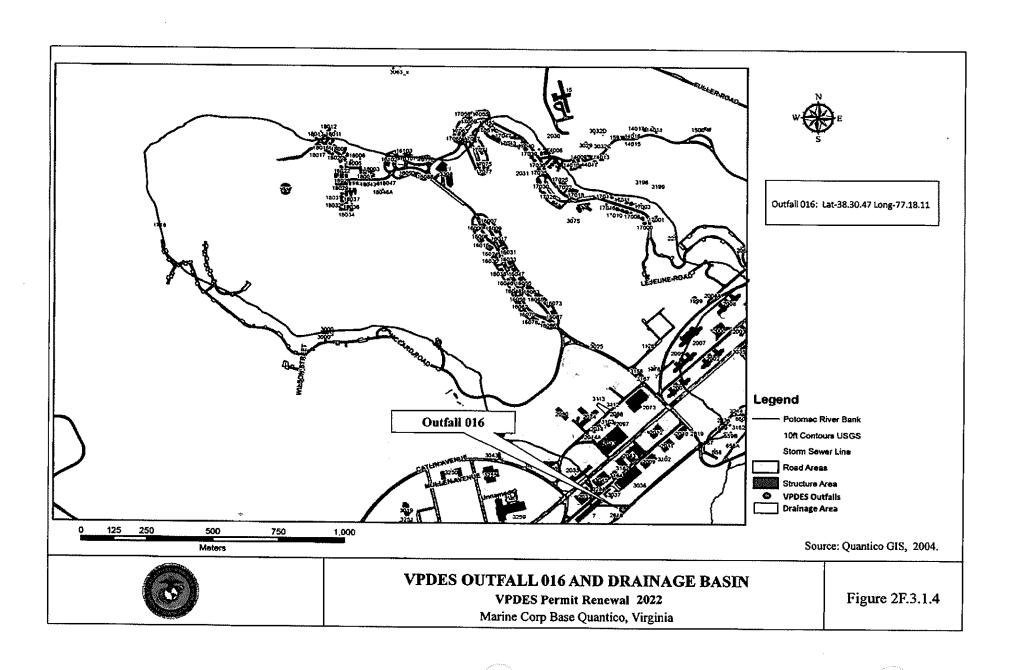
Table 2F-1.1
MCB Quantico VPDES Permit Renewal
VPDES Permit No. VA0002151

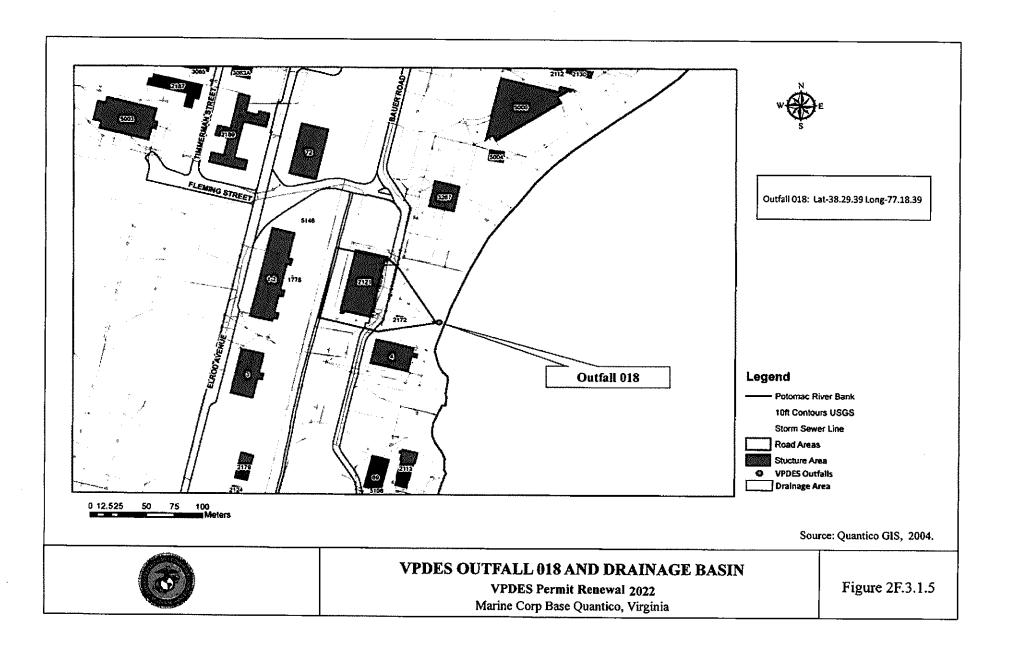
	B. Latitude			C. Longitude				
A. Outfall Number (List)	1. Deg.	2. Min	3. Sec.	1. Deg.	2. Min.	3. Sec.	D. Receiving Water (Name)	
007	38	30	54	-77	17	55	Unnamed tributary to Potomac River	
010_	38	30	54	-77	17	46	Unnamed tributary to Potomac River	
014	38	30	36	-77	18	11	Unnamed tributary to Potomac 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	

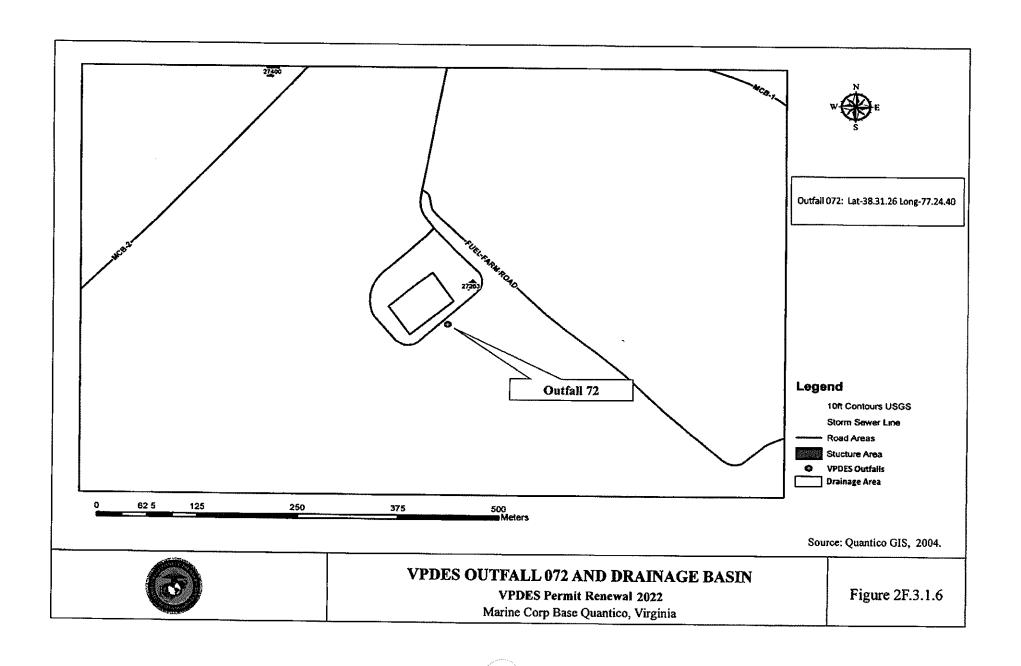


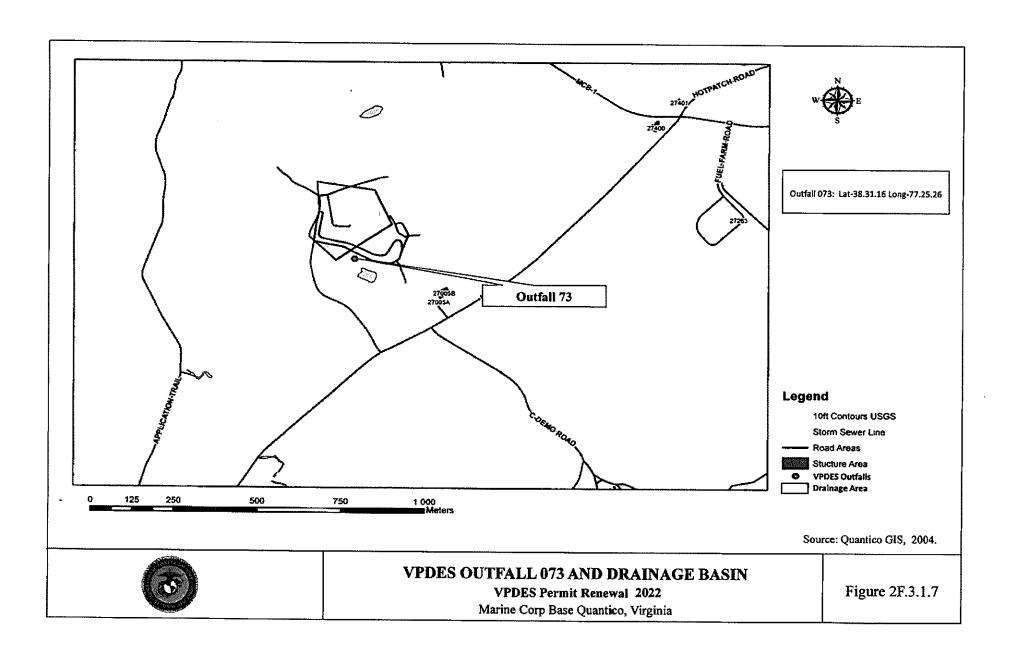


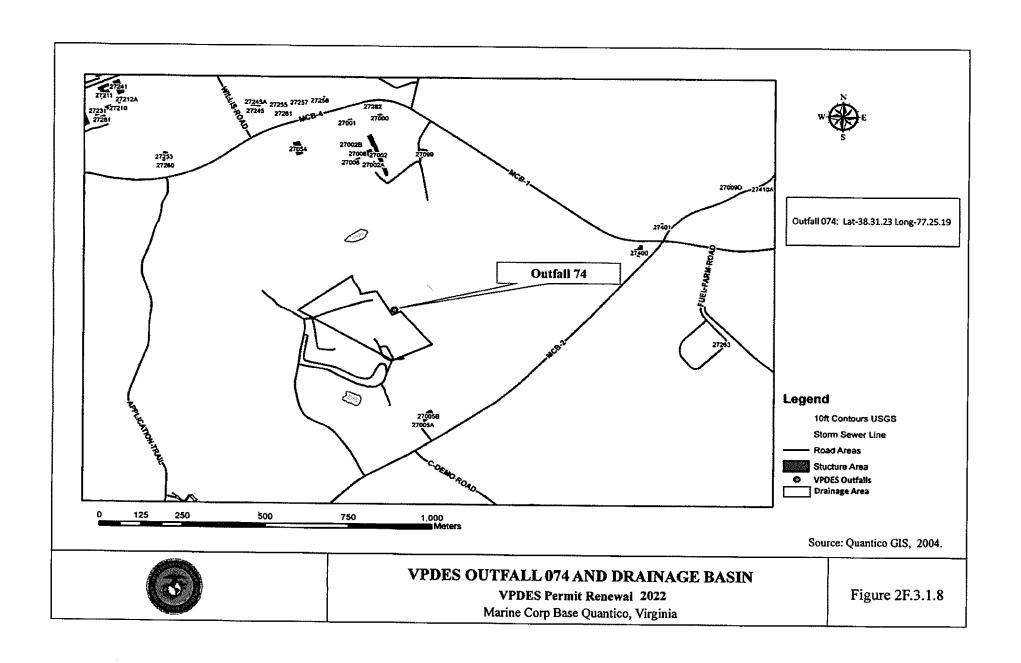


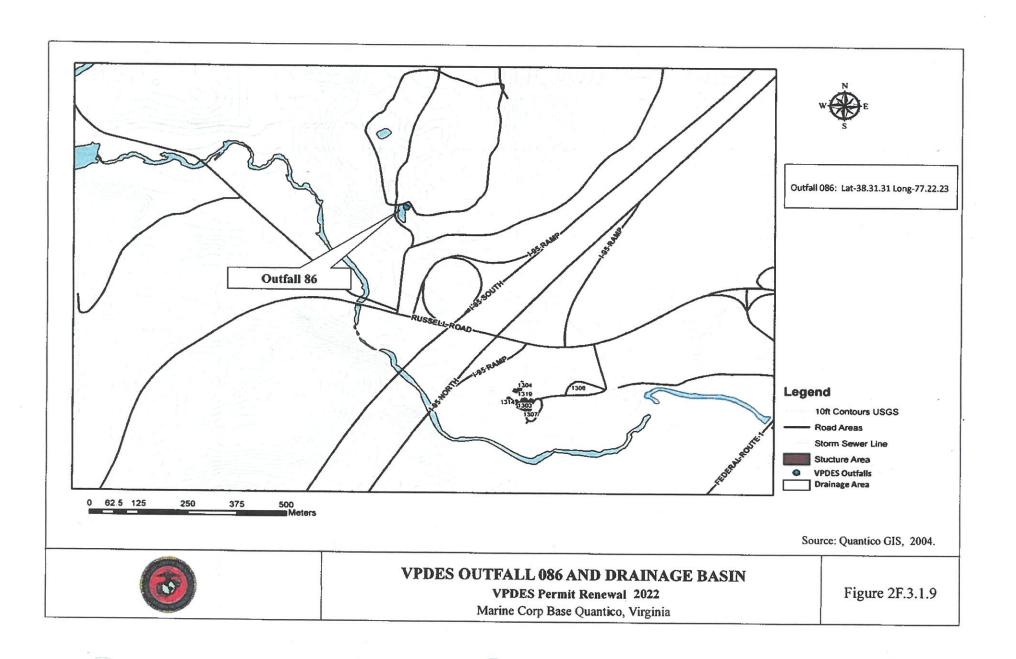


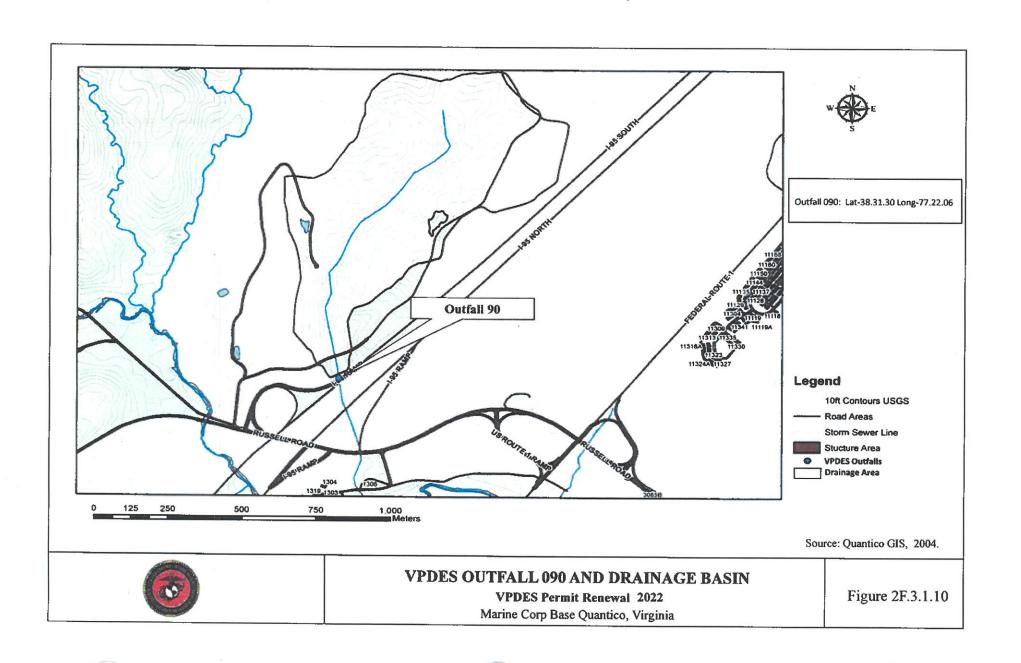












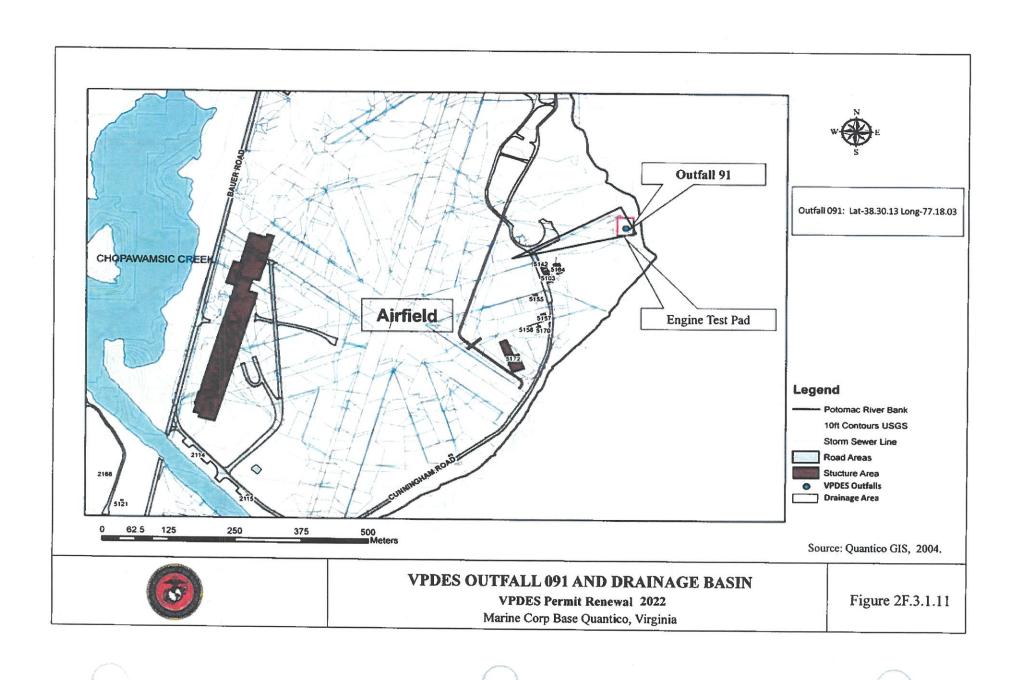


Table 2F.4.1 MCB Quantico VPDES Permit Renewal VPDES Permit No. VA0002151

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)
	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	
007	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 Operations and Maintenance Manual for Process Wastewater Outfalls, Marine Corps Base Quantico.	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 Operations and Maintenance Manual for Process Wastewater Outfalls, Marine Corps Base Quantico.	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 NPDES Permit Number Facility Name **Outfall Number** Form Approved 03/05/19 OMB No. 2040-0004 110070001339 VA0002151 Marine Corps Base Quantico 016

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

1

EPA Form 3510-2F (Revised 3-19) Page 7

<sup>1</sup> 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	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corps Base Quantico	016	OMB No. 2040-0804

# TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))1

List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)			Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	(new source/new dischargers only; use codes in instructions)
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<sup>&</sup>lt;sup>1</sup> 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 Form 3510-2F (Revised 3-19)

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

	Maximum Daily Discharge (specify units)		Average Daily (specify	/ Discharge units)	Number of Storm	Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
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<sup>1</sup> 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 NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19
110070001339 VA0002151 Marine Corps Base Quantico 072 OMB No. 2040-0004

# TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))1

	(specify	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	(new source/new dischargers only; use codes in instructions)
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<sup>1</sup> 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 NPDES Permit Number Facility Name Outfall Number

110070001339 VA0002151 Marine Corps Base Quantico 072

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

<sup>1</sup> 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	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corps Base Quantico	072	OMB No. 2040-0004

	Maximum Dai (specify	ly Discharge units)	Average Dail	y Discharge units)		Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	(new source/new dischargers only; use codes in instructions)
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<sup>1</sup> 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	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corps Base Quantico	073	OMB No. 2040-0004

### TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))1

	Maximum Daily Discharge (specify units)		Average Dail (specify	y Discharge units)	Number of Storm	Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
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<sup>1</sup> 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 NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19
110070001339 VA0002151 Marine Corps Base Quantico 073 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. Maximum Daily Discharge Average Daily Discharge Source of (specify units) (specify units) Information **Number of Storm** Pollutant or Parameter Grab Sample Taken Grab Sample Taken (new source/new Flow-Weighted Flow-Weighted **Events Sampled During First During First** dischargers only; use Composite Composite codes in instructions) 30 Minutes 30 Minutes Oil and grease ND 1 2. Biochemical oxygen demand (BOD<sub>5</sub>) 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 Total Kjeldahl nitrogen (TKN) 1.0 mg/l 1 Total nitrogen (as N) 1.33 mg/l 1 pH (minimum) 7.22 1 8. pH (maximum) 7.22 1

<sup>&</sup>lt;sup>1</sup> 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	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corps Base Quantico	073	OMB No. 2040-0004

	Maximum Dai (specify	ily Discharge runits)	Average Daily (specify	/ Discharge units)		Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	(new source/new dischargers only; use codes in instructions)
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<sup>&</sup>lt;sup>1</sup> 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 NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19
110070001339 VA0002151 Marine Corps Base Quantico 074 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. Maximum Daily Discharge Average Daily Discharge Source of (specify units) (specify units) Information Number of Storm Pollutant or Parameter Grab Sample Taken Grab Sample Taken (new source/new Flow-Weighted Flow-Weighted **Events Sampled During First During First** dischargers only; use Composite Composite 30 Minutes codes in instructions) 30 Minutes Oil and grease ND 1 Biochemical oxygen demand (BOD<sub>5</sub>) 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 Total nitrogen (as N) 1.04 mg/l 1 pH (minimum) 7.36 1 8. pH (maximum) 7.36 1

<sup>1</sup> 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	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corps Base Quantico	074	OMB No. 2040-0004

# TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122,26(c)(1)(i)(E)(4) and 40 CFR 122,21(g)(7)(vi)(A))1

	Maximum Dai (specify	ly Discharge (units)	Average Dail (specify	y Discharge (units)	Number of Storm	Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
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<sup>&</sup>lt;sup>1</sup> 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	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corps Base Quantico	074	OMB No. 2040-0004

	Maximum Daily Discharge (specify units)		Average Dail (specify	y Discharge runits)	Number of Storm	Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions
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<sup>&</sup>lt;sup>1</sup> 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	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corps Base Quantico	086	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. Maximum Daily Discharge Average Daily Discharge Source of (specify units) (specify units) Information **Number of Storm** Pollutant or Parameter Grab Sample Taken Grab Sample Taken (new source/new Flow-Weighted Flow-Weighted **Events Sampled During First During First** dischargers only; use Composite Composite codes in instructions) 30 Minutes 30 Minutes Oil and grease No discharge Biochemical oxygen demand (BOD<sub>5</sub>) No discharge 3. Chemical oxygen demand (COD) No discharge 4. Total suspended solids (TSS) No discharge Total phosphorus No discharge Total Kjeldahl nitrogen (TKN) No discharge Total nitrogen (as N) No discharge pH (minimum) No discharge 8. pH (maximum) No discharge

<sup>&</sup>lt;sup>1</sup> 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	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marine Corns Base Quantico	086	OMB No. 2040-0004

# TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))1

	Maximum Dai (specify	ily Discharge (units)	Average Daily (specify	/ Discharge units)		Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	- Number of Storm Events Sampled	(new source/new dischargers only; us codes in instructions
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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).

Form Approved	Outfall Number	Facility Name	NPDES Permit Number	EPA Identification Number
OMB No. 2	086	Marine Corps Base Quantico	VA0002151	110070001339

	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm	Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	(new source/new dischargers only, use codes in instructions
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<sup>1</sup> 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 NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19
110070001339 VA0002151 Marine Corps Base Quantico 090 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. Maximum Daily Discharge Average Daily Discharge Source of (specify units) (specify units) Information **Number of Storm** Pollutant or Parameter Grab Sample Taken Grab Sample Taken (new source/new Flow-Weighted Flow-Weighted **Events Sampled During First During First** dischargers only, use Composite Composite codes in instructions) 30 Minutes 30 Minutes Oil and grease ND 1. Biochemical oxygen demand (BOD<sub>5</sub>) <2 mg/l 1 Chemical oxygen demand (COD) ND 1 Total suspended solids (TSS) 7.7 mg/l 1 Total phosphorus 0.03 mg/l 1 Total Kjeldahl nitrogen (TKN) 0.3 mg/l 1 Total nitrogen (as N) 0.26 mg/l 1 pH (minimum) 7.07 1 8. pH (maximum) 7.07 1

<sup>1</sup> 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	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
110070001339	VA0002151	Marina Corne Raca Quantico	nen	OMB No. 2040-0004

# TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))<sup>1</sup>

	(specify	ily Discharge y units)	Average Daily Discharge (specify units)		Average Daily Discharge (specify units)		- Number of Storm	Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)		
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<sup>1</sup> 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 NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19
110070001339 VA0002151 Marine Corps Base Quantico 090 OMB No. 2040-0004

# TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))1

	(specify			y Discharge units)	Number of Storm	Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
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<sup>1</sup> 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 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 Signate

Carol K Zero Name

Pres Hed Divides Title

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

## <u>Analyses</u>

Oil and Grease	EPA 1664A						,
	<b>Test Result</b>	<u>Unit</u>	RL.	Analysis Date	<u>Analysis By</u>	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	С		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	<u>Unit</u>	RL	<b>Analysis Date</b>	Analysis By	Qualifier	Cert#
Holding Time Met	Yes	Yes/No		10/12/2022 13:55	BS		
Sample Receipt Temperature	1	С		10/12/2022 13:55	BS		
Biochemical Oxygen Demand	3	mg/L	2	10/12/2022 13:55	BS		460038
Chemical Oxygen Demand	HACH 8000						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	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	С		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	С		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	<u>Unit</u>	RL	<b>Analysis Date</b>	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	С		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	<u>Unit</u>	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
- ,	5.0						

Client: Marine Base Quantico NREA

Lab ID: 2209169-001

Permit ID

Nitrogen, Total

Nitrate/Nitrite as N

Nitrogen, Total

Nitrogen, Total Kjeldahl

Cilent Sample ID: OF-016 Grab

Collection Date: 10/12/2022 09:50

Matrix: AQUEOUS

LP

LP

LP

460036

460036

## <u>Analyses</u>

•							
	Test Result	<u>Unit</u>	RL	Analysis Date	<u>Analysis By</u>	<b>Qualifier</b>	Cert #
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	С		10/14/2022 14:31	LP		

0.1

0.2

0.2

10/14/2022 14:31

10/14/2022 14:31

10/14/2022 14:31

mg/L

mg/L

mg/L

EPA 351.2/ EPA 353.2

0.44

0.94

1.38

## **Glossary of Terms and Abbreviations**

Glossary of Te	ins and Appleadings
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.
В	Analyte was found in the method blank
D	RPD outside acceptable limits
Н	Holding time exceeeded
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 Limitis 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 Verfication	(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 simulatanously with and under the same conditions as samples.
Surrogate	A substance with properties that mirnic 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 effectivenss 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 occured.
*	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.

# **CHAIN OF CUSTODY**

ID: 2209169

20 Research Drive

Hampton, VA 23666 1-800-695-2162

http://www.universallaboratories.net

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

CN int check\_

BOD int check\_

Client PO/Project Name

3250 Catlin Avenue

Quantico, VA, 22134

Phenol int check\_

Marine Base Quantico NREA

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		001A	1/Glass	H2SO4/<6°C	waste, OGT, BOD, COD, TSS,
		AQUEOUS	10/12/22	0018	1/Glass	H2SO4/<6°C	h
		AQUEOUS		001C	1/Glass	H2SO4/<6°C	h
		AQUEOUS	( S50	001D	1/HDPE	H2SO4/<6°C	7
		AQUEOUS		001E	2/HDPE	<6°C	
		AQUEOUS		001F	1/HDPE	<6°C	

NH3 int check\_

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TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	$\sim 10$	DATE/TIME	12 0
Relinquished by		19/2/2 1018	Received by	The same of the sa	Almn	10/3/22 11	2 1/1/2
Relinquished by	00		Received by	9	The	16/2/22/3	きかん
Relinquished by			Received by		7//	1/2/	$\Gamma \sim \kappa$
Relinquished by			Received by		V	· · · · · · · · · · · · · · · · · · ·	- 180



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:

Signature

Name

Title

**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

## <u>Analyses</u>

Biochemical	Oxygen Demand
(PAN) 5 Dog	

(BOD) 5 Day SM 5210 B (2011)

	Test Result	<u>Unit</u>	RL	<u> Analysis Date</u>	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		10/13/2022 10:53	BS		
Sample Receipt Temperature	1	С		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

	Test Result	<u>Unit</u>	RL	<u> Analysis Date</u>	Analysis By	<u>Qualifier</u>	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	С		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)

	<b>Test Result</b>	<u>Unit</u>	<u>RL</u>	Analysis Date	Analysis By	<u>Qualifier</u>	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	3.7	mg/L	1	10/13/2022 17:37	BS		460036

## Ammonia as N, Totai EPA 350.1

	Test Result	Unit	<u>RL</u>	<u>Analysis Date</u>	Analysis By	<u>Qualifier</u>	Cert #
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	С		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**

<u> </u>	rms and Abbreviations
ND	No analyte detected at or above the RL (Reporting Limit) listed
NR	No Results available, analyte πot 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.
В	Analyte was found in the method blank
D	RPD outside acceptable limits
н	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 Limitis 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 Verfication	(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 blas 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 simulatanously 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 effectivenss 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 occured.
*	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.
1	



# 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.



## 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

Sample Name 2209181-001 E Laboratory ID

Client Matrix

Sample Type

Sample Begin

Sample Taken

Lab Received

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: Sample Matrix: Lab Sample ID:	2209181-001 E Aqueous M2J0909-01					Collection	Date:	10/12/2	022 9:40	
Inorganics Total		Resul	t RL	Units	DF	Note	Prepare	ed	Analyzed	Analys
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		MURANI MILITANI SI SI MARKINI SI M	(America) marchi (Granda et al. 111 in 1949)							
Cooler ID:	Default Cooler	Ten	np: 1,4°C							
Cooler Inspection C	Checklist									- Contract of the Contract of
Ice Present or not	required?		Yes	Shippin	g containe	ers sealed o	r not require	d?		Ye
Custody seals inta	ict or not required?		Yes	Chain o	f Custody	(COC) Pres	ent?			Ye
COC includes cus	tomer information?		Yes	Relingu	ished and	received sig	gnature on C	OC?		Ye
Sample collector is	dentified on COC?		Yes	Sample	type ideni	tified on CO	C?			Ye
Correct type of Co	ntainers Received		Yes	Correct	number o	f containers	listed on CC	OC?		Ye
Containers Intact?			Yes	COC in	cludes req	uested anal	yses?			Ye
Enough sample vo	olume for indicated tests re	eceived?	Yes	Sample	labels ma	tch COC (N	ame, Date 8	. Time	?)	Ye
Samples arrived w	ithin hold time?		Yes	Correct	preservati	ives on COC	or not requ	ired?		Ye
Chemical preserva	ations checked or not requ	ired?	Yes	Preserv	ation chec	ks meet me	thod require	ments	?	Ye
VOA vials have ze	ro headspace, or not recd	?	Yes							

## Report Comments

Microbac Laboratories Inc., Marietta, OH

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 <a href="https://www.microbac.com/standard-terms-conditions">https://www.microbac.com/standard-terms-conditions></a>.

Reviewed and Approved By:

Alicia Walker Project Manager

Virginia Department of General Services

Reported 10/20/2022 11:21

Microbac Laboratories, Inc.

## Subcontract Chain of Custody/ PO#

20 Research Drive Hampton, VA 23666

Phone: 757-865-0880 Fax: 757-865-8014

**UL Contact: Dan Thornton** 

101322-009 Microbac OVD

10/14/

326,701,

Attn: Sample Receiving Email: d.thornton@universallaboratories.net Sample # Sample Location Sample Date/ Time Test 2209181-001 E OF-035 Grab 10/12/2022 9:40AM Organic Carbon, Total - SUB Cooler Temp: Comments: VA Certification Required Preservation: Date/Time Religquish By Receive By Date/Time

# **®MICROBAC**°

Work Order #		1	LER TEMP >6° C			T
	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6
SAMPLE ID	°C	°C	°C	°C	°C	°C
· .						
· · · · · · · · · · · · · · · · · · ·						
			\$	<i></i>		
			7/30000		-	
		10)				<del></del>
						·
						<del></del>
		рН	Exceptions			
Lot# <u>HC2915</u> 9 SAMPLEID	D Bottle 1	pH Bottle 2	Exceptions Bottle 3	Bottle 4	Bottle 5	Bottle 6
			T	Bottle 4	Bottle 5	Bottle 6
			T	Bottle 4	Bottle 5	Bottle 6
			T	Bottle 4	Bottle 5	Bottle 6
			T	Bottle 4	Bottle 5	Bottle 6
		Bottle 2	Bottle 3		Bottle 5	Bottle 6
		Bottle 2	Bottle 3		Bottle 5	Bottle 6
		Bottle 2	Bottle 3		Bottle 5	Bottle 6
		Bottle 2	Bottle 3		Bottle 5	Bottle 6
		Bottle 2	Bottle 3		Bottle 5	Bottle 6
		Bottle 2	Bottle 3		Bottle 5	Bottle 6
		Bottle 2	Bottle 3		Bottle 5	Bottle 6
SAMPLE ID		Bottle 2	Bottle 3		Bottle 5	Bottle 6
		Bottle 2	Bottle 3		Bottle 5	Bottle 6

Document Control # 1957 Last 04-10-2019

10/14/2022 Sm Issued to: Document Master File

# **CHAIN OF CUSTODY**

ID: 2209181

3250 Catlin Avenue Quantico, VA, 22134

**Marine Base Quantico NREA** 

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

Form 2C Table A OF-035

20 Research Drive

Hampton, VA 23666

1-800-695-2162

http://www.universallaboratories.net

Page 1 of 1

Sample I	Name	UL_Sample ID	Matrix	Sample Date	e/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-035 Grab		2209181-001	AQUEOUS	1011212000	9140 00	001A	1/HDPE	H2SO4/<6°C	aste, BOD, COD, TOC, TSS, NH3
			AQUEOUS	TOTO COCK	170 100	001B	1/HDPE	<6°C	
			AQUEOUS	/		001C	2/HDPE	<6°C	3
			AQUEOUS	1	/ /	001D	500/HDPE	H2SO4/<6°C /	
			AQUEOUS			001E	150/HDPE	H2SO4/<6°C	
Phenol int check	CN int check		int check	NH3 int c					,
TRANSFER	SIGNATURE			DATE/TIME	TRANSFER		IATURE	05/)	DATE/TIME
Relinquished by	elin	-41		10/12/24 18	Received by	1/2	2	Dead	10/12/22/1
Relinquished by					Received by	IN	and the	JUMA	10/12/22/
Relinquished by					Received by	/			1//
Polinguiched by					Desertion del	_			



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:

Signature

Name

Title

Client: Marine Base Quantico NREA

Lab ID: 2209174-001

Permit ID

Client Sample ID: OF-072 Grab

Collection Date: 11/16/2022 09:40

Matrix: AQUEOUS

## **Analyses**

Oil and Grease	EPA 1664A						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	<b>Analysis By</b>	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	С		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	<b>Analysis Date</b>	<b>Analysis By</b>	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		11/17/2022 13:57	BS		
Sample Receipt Temperature	1	С		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	<b>Analysis Date</b>	<b>Analysis By</b>	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	С		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)						
	<b>Test Result</b>	<u>Unit</u>	RL	<b>Analysis Date</b>	<b>Analysis By</b>	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						
	<b>Test Result</b>	Unit	RL	<b>Analysis Date</b>	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	С		11/18/2022 16:54	LS.		
Phosphorus, Total	0.05	mg/L	0.02	11/18/2022 16:54	LS.		460036
8							
Nitrogen, Total Kjeldahl	EPA 351.2						
	<b>Test Result</b>	<u>Unit</u>	RL	<b>Analysis Date</b>	<b>Analysis By</b>	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	С		11/21/2022 17:36	MKL		
Nitrogen, Total Kjeldahl	0.5	mg/L	0.2	11/21/2022 17:36	MKL		460036

**Client:** Marine Base Quantico NREA

Lab ID: 2209174-001

Permit ID

Client Sample ID: OF-072 Grab

Collection Date: 11/16/2022 09:40

Matrix: AQUEOUS

## **Analyses**

Nitrogen, Total

EPA 351.2/ EPA 353.2

	<b>Test Result</b>	<u>Unit</u>	RL	<b>Analysis Date</b>	<b>Analysis By</b>	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	С		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**

<del>-</del>	Sitip alin Whitestations
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.
В	Analyte was found in the method blank
	RPD outside acceptable limits
Н	Holding time exceeeded
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 Limitis 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 Verfication	(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.
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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 effectivenss 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 occured.
**************************************	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.
kilime parjakansaran melunjuk menjuk menj R	SM 5210B-2011 7.b. Test replicates show more than 30% difference between high and low values

## **CHAIN OF CUSTODY**

3250 Catlin Avenue Quantico, VA, 22134

OF-072 Grab

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

**UL\_Sample** 

ID

2209174-001

Matrix

**AQUEOUS** 

AQUEOUS

AQUEOUS

Marine Base Quantico NREA

Sample Name

Client PO/Project Name

ID: 2209174

Sample Date/Time/Initials

Form 2F Table A OF-072

**BottleID** 

001A

001B

001C

Sample

1/Glass

1/Glass

1/Glass

Container

20 Research Drive

Preservation Testing

H2SO4/<6°C

H2SO4/<6°C

H2SO4/<6°C

Hampton, VA 23666 1-800-695-2162

http://www.universallaboratories.net

Page 1 of 1

waste, OGT, BOD, COD, TSS,

T.PHOS, TKN, TN

		AQUEOUS		/ 0	01D	1/HDPE	H2SO4/<6°	
		AQUEOUS		0	01E	2/HDPE	<6°C	
		AQUEOUS	¥.	0	01F	1/HDPE	<6°C	
NOTES:								CoolerTemp   N C
Phenol int check	CN int check	BOD int check	NH3 int check					
TRANSFER	SIGNATURE		DATE/TIME 4.4	RANSFER	SIG	SNATURE		DATE/TIME
Relinquished by	Culer	en	1116/2277	Received by	10	7/5		11.17.00 1003
Relinquished by				Received by	C	4/5		11.17.22 1245
Relinquished by				Received by	$\top$	1	-	
Relinquished by		······································		Received by		1		



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:

Signature

Name

Title

**Client: Marine Base Quantico NREA** 

Lab ID: 2209175-001

Permit ID

Client Sample ID: OF-073 Grab

Collection Date: 11/16/2022 11:50

Matrix: AQUEOUS

## **Analyses**

Oil and Grease	EPA 1664A						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	<b>Analysis By</b>	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	С		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)						
	<b>Test Result</b>	<u>Unit</u>	RL	<b>Analysis Date</b>	<b>Analysis By</b>	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		11/17/2022 13:57	BS		
Sample Receipt Temperature	1	С		11/17/2022 13:57	BS		
Biochemical Oxygen Demand	5	mg/L	2	11/17/2022 13:57	BS		460036
Chemical Oxygen Demand	HACH 8000						
	<b>Test Result</b>	<u>Unit</u>	RL	<b>Analysis Date</b>	Analysis By	<b>Qualifier</b>	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	С		11/21/2022 10:36	MKL		
Chemical Oxygen Demand	40.7	mg/L	20	11/21/2022 10:36	MKL		460036
Solids, Total Suspended	SM 2540D (2011)						
	Test Result	Unit	RL	<b>Analysis Date</b>	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		11/17/2022 17:24	BS		
Sample Receipt Temperature	1	С		11/17/2022 17:24	BS		
Solids, Total Suspended	21.5	mg/L	1	11/17/2022 17:24	88		460036
Phosphorus, Total	EPA 365.1						
	<b>Test Result</b>	Unit	RL	<b>Analysis Date</b>	<b>Analysis By</b>	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	С		11/18/2022 16:54	LS.		
Phosphorus, Total			0.00	1111010000 10 51			460036
Priospriorus, Total	0.13	mg/L	0.02	11/18/2022 16:54	LS.		100000
Priospriorus, Total	0.13	mg/L	0.02	11/18/2022 16:54	LS.		10000
Nitrogen, Total Kjeldahl	0.13 EPA 351.2	mg/L	0.02	11/18/2022 16:54	LS.		10000
		mg/L <u>Unit</u>	0.02	Analysis Date	Analysis By	Qualifier	Cert #
	EPA 351.2				Analysis By	Qualifier	
Nitrogen, Total Kjeldahl	EPA 351.2 Test Result	<u>Unit</u>		Analysis Date	Analysis By  MKL  MKL	Qualifier	
Nitrogen, Total Kjeldahl Sample Preservation pH	EPA 351.2 Test Result	<u>Unit</u> pH Units		Analysis Date 11/21/2022 17:36	Analysis By	Qualifier	Cert #
Nitrogen, Total Kjeldahl Sample Preservation pH Holding Time Met	EPA 351.2  Test Result  1  Yes	Unit pH Units Yes/No		Analysis Date 11/21/2022 17:36 11/21/2022 17:36	Analysis By  MKL  MKL	<u>Qualifier</u>	

**Client: Marine Base Quantico NREA** 

Lab ID: 2209175-001

Permit ID

Client Sample ID: OF-073 Grab

Collection Date: 11/16/2022 11:50

Matrix: AQUEOUS

## **Analyses**

Nitrogen, Total

EPA 351.2/ EPA 353.2

	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	<b>Analysis By</b>	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	С		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 Rt. (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.
В	Analyte was found in the method blank
D	RPD outside acceptable limits
H	Holding time exceeeded
IS	Internal standard outside acceptable limits
J	Result above calibration curve - results are approximate
L	LCS Outside acceptable limits
MI	Matnx interence
MS	Matrix spike recovery outside acceptable limits
QC	Method QC criteria not met
\$	Surrogate outside acceptable limits
ν	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 Limitis 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 Verfication	(Initial, Continuing, or Final) A standard analyzed at different times to verify that the initial calibration curve is still valid.
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*	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
	A CONTRACTOR OF THE CONTRACTOR

## Marine Base Quantico NREA

# Universal Laboratories CHAIN OF CUSTODY

ID: 2209175

20 Research Drive

Hampton, VA 23666 1-800-695-2162

http://www.universallaboratories.net

Page 1 of 1

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

Client PO/Project Name

3250 Catlin Avenue Quantico, VA, 22134

Form 2F Table A OF-073

Sample Name	UL_Sample ID	Matrix	Sample Date/Time/Initials	BottleID	Sample Container	Preservation	Testing
OF-073 Grab	2209175-001	AQUEOUS	(A) (1/6/22 (1/5)	001A	1/Glass	H2SO4/<6°C	waste, OGT, BOD, COD, TSS, T.PHOS, TKN, TN
		AQUEOUS	out the total	001B	1/Glass	H2SO4/<6°C	
		AQUEOUS		001C	1/Glass	H2\$O4/<6°C	2
		AQUEOUS		001D	1/HDPE	H2SO4/<6°E/	-
		AQUEOUS		001E	2/HDPE	<6°C	
		AQUEOUS		001F	1/HDPE	<6°C	1

NOTES: Phenol int check	CN int check I	30D int checkNH3 int chec	k		CoolerTempC
TRANSFER	SIGNATURE	DATE/TIME HIS	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by	11/1//	11/16/27	Received by	19/5	11.17.22 1093
Relinquished by			Received by	UL S	- 11.17.22 12KS
Relinquished by			Received by	0	
Relinquished by			Received by		

1	
	•



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:\_

Name

1 Title

Client: Marine Base Quantico NREA

EPA 1664A

Lab ID: 2209176-001

Permit ID

Oil and Grease

Client Sample ID: OF-074 Grab

**Collection Date: 11/07/2022 09:00** 

**Matrix:** AQUEOUS

## <u>Analyses</u>

	E! A 1007A						
	Test Result	<u>Unit</u>	RL	<u>Analysis Date</u>	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	С		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	<u>Unit</u>	RL	<b>Analysis Date</b>	Analysis By	Qualifier	Cert#
Holding Time Met	Yes	Yes/No		11/08/2022 14:55	BS		
Sample Receipt Temperature	1	С		11/08/2022 14:55	BS		
Biochemical Oxygen Demand	9	mg/L	2	11/08/2022 14:55	BS	В	460036
Chemical Oxygen Demand	HACH 8000						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	Analysis By	Qualifler	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	С		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)						
	<b>Test Result</b>	<u>Unit</u>	<u>RL</u>	<b>Analysis Date</b>	<u>Analysis By</u>	<b>Qualifier</b>	Cert #
Holding Time Met	Yes	Yes/No		11/09/2022 10:03	BS		
Sample Receipt Temperature	1	С		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	<u>Unit</u>	RL	<b>Analysis Date</b>	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	С		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	<u>Unit</u>	<u>RL</u>	<b>Analysis Date</b>	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
		-					

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

#### <u>Analyses</u>

Nitrogen, Total	EPA 351.2/ EPA 3	53.2					
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	Analysis By	Qualifier	Cert #
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	С		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	mø/L	0.2	11/11/2022 14:33	MKL		•

Glossary of Te	rms 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.
В	Analyte was found in the method blank
D	RPD outside acceptable limits
н	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
ac	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 Limitis is an estimate of the minimum amount of a substance that an analytical process can reliably detect
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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

## **CHAIN OF CUSTODY**

ID: 2209176

Sample Date/Time/Initials

20 Research Drive

Preservation Testing

Hampton, VA 23666 1-800-695-2162

http://www.universallaboratories.net

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

UL\_Sample

Matrix

Client PO/Project Name

3250 Catlin Avenue

Quantico, VA, 22134

Relinquished by

**Marine Base Quantico NREA** 

Sample Name

Form 2F Table A OF-074

BottleID

Sample Container Page 1 of 1

and the second section of the party of the second section of the section of the second section of the sectio	to a the laws of the interest of the										
OF-074 Grab		2209176-001	AQUEOUS	11/7/22	9:00	COY	001Å	1/Glass	H2SO4/<6°C		ste. OGT, BOD, COD, TSS. PHOS, TKN, TN
			AQUEOUS	, ,	ì		001B	1/Glass	H2SO4/<6°C	TY!!	•
			AQUEOUS				001C	1/Glass	H2SO4/<6°C	74	1
			AQUEOUS		ì		001D	1/HDPE	H2SO4/<6°C	W)	
			AQUEOUS				001E	2/HDPE	<6°C	T	
			AQUEOUS	•			001F	1/HDPE	<6°C		
							-				1/2/2/2
NOTES:Phenol int check	CN int check		) int check	NH3 ir	nt check					c	CoolerTemp / NO C
Phenol int check		800	) int check								• -
	_ CN int check	800	) int check	DATE/TIME		ANSFER	SIGI	IATURE	×-/2	c	CoolerTemp //VA C
Phenol int check		BOD	) int check		TR	ANSFER		<del>////</del>	) Ema	c	• -
Phenol int check		BOD	) int check	DATE/TIME	TR. /0;39 Re		1	<del>////</del>	In and the second		DATE/TIME

Received by



# UNIVERSAL LABORATORIES

Headquarters 20 Research Drive Hampton, Virginia 23666 Telephone: 757-865-0880 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 ≤0.2mg/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:

Signature

Name

on they Dunales I

Title

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

## <u>Analyses</u>

Oil and Grease	EPA 1664A						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	<u>Analysis By</u>	<b>Qualifier</b>	Cert #
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)						
	<b>Test Result</b>	<u>Unit</u>	<u>RL</u>	<b>Analysis Date</b>	<u>Analysis By</u>	Qualifier	Cert#
Holding Time Met	Yes	Yes/No		11/18/2022 13:44	BS		
Sample Receipt Temperature	1	С		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	*					
	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	165	C		11/21/2022 10:36	MKL		
Chemical Oxygen Demand	, ND	mg/L	20	11/21/2022 10:36	MKL		460036
	110	mg. L		1 11 2 11 20 22 10 100			
Solids, Total Suspended	SM 2540D (2011)						
	<u>Test Result</u>	<u>Unit</u>	<u>RL</u>	<u>Analysis Date</u>	Analysis By	Qualifier	Cert #
Holding Time Met	Yes	Yes/No		11/20/2022 18:03	LP		
Sample Receipt Temperature	1	С		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						
	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	<b>Analysis By</b>	<b>Qualifier</b>	Cert #
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	С		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						
₩ · <b>*</b>	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	0.3	mg/L	0.2	11/21/2022 17:36	MKL		460036
	3,5						

**Cilent:** Marine Base Quantico NREA

Lab ID: 2209178-001

Permit ID

Collection Date: 11/17/2022 08:25 Matrix: AQUEOUS

Client Sample ID: OF-090 Grab

## **Analyses**

Nitrogen, Total EPA 351.2/ EPA 353.2

	Test Result	<u>Unit</u>	RL	<b>Analysis Date</b>	<u>Analysis By</u>	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	С		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 towest calibration standard run with the analytical batch.
B	Analyte was found in the method blank
D	RPD outside acceptable limits
н	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
٧	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 Limitis 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 Verfication	(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 simulataneously 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 effectivenss 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 occured.
*	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

**Marine Base Quantico NREA** 

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

3250 Catlin Avenue

Quantico, VA, 22134

Client PO/Project Name

# **Universal Laboratories**

# **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	11/17/20 8/2	95 COY	001A	1/Glass	H2SO4/<6°C	waste, OGT, BOD, COD, TSS, T.PHOS, TKN, TN
		AQUEOUS	1	1	001B	1/Glass	H2SO4/<6°C	
		AQUEOUS			001C	1/Glass	H2SO4/<6°C	1
	1	AQUEOUS			001D	1/HDPE	H2SO4/<6°2	ŀ
		AQUEOUS			001E	2/HDPE	<6°C	
		AQUEOUS			001F	1/HDPE	<6°C	

NOTES:Phenol int check	CN int check BOD int ch	eckNH3 int che	:k		CoolerTemp_/^V/T_C
TRANSFER	SIGNATURE	DATE/TIME	TRANSFER	SIGNATURE	DATE/TIME
Relinquished by	Em and	11/0132 1013	Received by	lan/s	11.18.22 1003
Relinquished by	6		Received by	Calles	11.18.22 1258
Relinquished by			Received by	100%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Relinquished by			Received by		

Form Approved 03/05/1	Outfall Number	Facility Name	NPDES Permit Number	EPA Identification Number
OMB No. 2040-000	091	Marine Corps Base Quantico	VA0002151	110070001339

## TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))<sup>1</sup>

List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		- Number of Storm	Source of Information
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
NA	No Discharge					
				***************************************	areni	
WAA ALONG Al						
TOPANIA TOPANI						

<sup>1</sup> 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 Form 3510-2F (Revised 3-19)