

PHIL-27871

November 30, 2023

Project Number 08005-WE04

Mr. Thomas Magge Clean Water Environmental Program Manager Pennsylvania Department of Environmental Protection Southeast Regional Office 2 East Main Street Norristown, Pennsylvania 19401

Reference: Contract No. N6247016D9008

Contract Task Order No. WE04

Subject: Discharge Monitoring Report – October 1 to October 31, 2023

WQM Permit # 0920203 - Effective: February 1, 2021, Expires: January 31, 2026

Site 5 Per- and Polyfluoroalkyl Substances Pilot Test System Former Naval Air Station Joint Reserve Base Willow Grove

Horsham Township, Pennsylvania

Dear Mr. Magge:

On behalf of the U.S. Navy, Tetra Tech is pleased to submit the Discharge Monitoring Report (DMR) for the Site 5 per- and polyfluoroalkyl substances (PFAS) pilot test system in operation at the Former Naval Air Station Joint Reserve Base Willow Grove in Horsham Township, Pennsylvania. The system was placed online on January 31, 2022. During this reporting period, 458,455 gallons of water were discharged between October 1, 2023 and October 30, 2023 to Outfall 2. The total volume of groundwater treated by the Site 5 pilot system since startup through October 30, 2023 is 16,237,557 gallons. Sampling for permit parameters was conducted on October 12, 2023.

During this reporting period, there was an overall decrease in the discharged effluent volume reported in the DMR. This was due to the system being down between October 20, 2023 and October 26, 2023 as a result of an issue with a float in the backwash tank. The system has also been down intermittently due to electrical issues causing transducers to fault.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Tricia E. Moore, PG Senior Project Manager

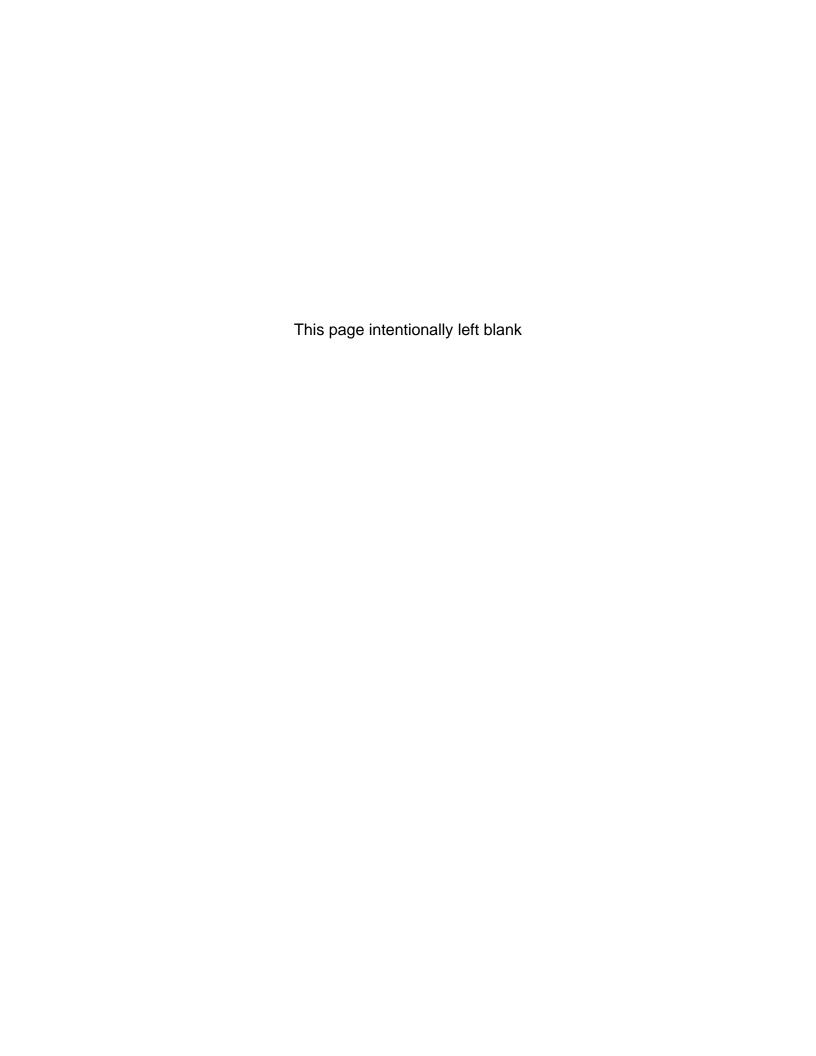
Juca & Move

TEM/nfs

Attachment: Discharge Monitoring Report – October 1 to October 31, 2023

c: Brian Helland (Navy BRAC PMOE)
Dawn DeFreitas (Navy BRAC PMOE)
Jonathan Harris (Navy BRAC PMOE)
Colin Wade (PADEP)

Sarah Kloss (EPA Region 3) Navy Caretaker Office Horsham Library NIRIS RDM



3800-FM-BCW0462 12/2016



PERMITTEE NAME/ADDRESS

WATERSHED

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

002

OUTFALL NUMBER

Facility Type: Minor

NAME	Naval Facilities Mid Atlantic
ADDRESS	4911 South Broad Street
	Philadelphia, PA 19112
FACILITY	Willow Grove NASJRB
LOCATION	Site 5

Montgomery County

 MONITORING PERIOD

 YEAR
 MO
 DAY
 YEAR
 MO
 DAY

 2023
 10
 1
 TO
 2023
 10
 31

0920203

PERMIT NUMBER

Reporting Frequency: Monthly

DMR Effective From: February 1, 2021

DMR Effective To: January 31, 2026

Permit Expires: January 31, 2026

Permit Application Due: August 4, 2025

__ Check Here if No Discharge

NOTE: Read Instructions before completing this form

										s before completing	
PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT	0.0131									
Flow	PERMIT REQUIREMENT	Report Avg Mo	XXX	MGD	XXX	XXX	XXX	XXX		Continuous	Recorded
	SAMPLE MEASUREMENT				7.94		7.95				
pH	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Inst Min	XXX	9.0 IMAX	S.U.		1/month	Grab
	SAMPLE MEASUREMENT					< 4.0					
Total Suspended Solids	PERMIT REQUIREMENT	XXX	xxx	xxx	XXX	10.0 Avg Mo	XXX	mg/L		1/month	Grab
	SAMPLE MEASUREMENT					0.027					
Aluminum, Total	PERMIT REQUIREMENT	XXX	XXX	xxx	XXX	0.75 Daily Max	XXX	mg/L		1/month	Grab
	SAMPLE MEASUREMENT					0.00042					
Chromium, Hexavalent	PERMIT REQUIREMENT	XXX	XXX	xxx	XXX	0.0152 Avg Mo	XXX	mg/L		1/month	Grab
	SAMPLE MEASUREMENT	_			_	<0.10					
Iron, Dissolved	PERMIT REQUIREMENT	xxx	XXX	XXX	xxx	0.439 Avg Mo	xxx	mg/L		1/month	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.	11 a -	TEI	LEPHONE		DATE	
Jonathan Harris, BEC by direction of BRAC PMO, and in my official capacity	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,		215	897 4915	2023	11	22
TYPED OR PRINTED	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. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY

COMMENTS (Report all violations on the "Non-Compliance Reporting Form"): Per the permit section C(E)(1), the dieldrin quantitation limit is 0.05 micrograms per liter. For the purpose of compliance, a statistical value report on the DMR that is less than the QL(s) (i.e., "non-detect) will be considered to be in compliance.

3800-FM-BCW0462 12/2016



PERMITTEE NAME/ADDRESS

WATERSHED

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

002

OUTFALL NUMBER

Facility Type: Minor

NAME	Naval Facilities Mid Atlantic
ADDRESS	4911 South Broad Street
	Philadelphia, PA 19112
FACILITY	Willow Grove NASJRB
LOCATION	Site 5

Montgomery County

MONITORING PERIOD										
YEAR	МО	DAY		YEAR	МО	DAY				
2023	10	1	ТО	2023	10	31				

0920203

PERMIT NUMBER

Reporting Frequency: Monthly

DMR Effective From: February 1, 2021

DMR Effective To: January 31, 2026

Permit Expires: January 31, 2026

Permit Application Due: August 4, 2025

__ Check Here if No Discharge

NOTE: Read Instructions before completing this form

		OLIANI	TITY OD 1 0 4 D 14	NOTE. Read III.			NO.	· ` `			
PARAMETER			TITY OR LOADIN			QUALITY OR CONCENTRATION				FREQUENCY	SAMPLE
1700 WIETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE										
	MEASUREMENT					< 0.10					
	PERMIT					Report	Report				
Iron, Total	REQUIREMENT	XXX	XXX	XXX	XXX	Avg Mo	IMAX	mg/L		1/month	Grab
	SAMPLE										
	MEASUREMENT					< 0.001					
	PERMIT					Report	Report				
Lead, Total	REQUIREMENT	XXX	XXX	XXX	XXX	Avg Mo	IMAX	mg/L		1/month	Grab
	SAMPLE										
	MEASUREMENT					0.00002					
	PERMIT					Report	Report				
Zinc, Total	REQUIREMENT	XXX	XXX	XXX	XXX	Avg Mo	IMAX	mg/L		1/month	Grab
	SAMPLE										
	MEASUREMENT					< 0.00050					
	PERMIT					Report	Report				
1,2-Dichloroethane	REQUIREMENT	XXX	XXX	XXX	XXX	Avg Mo	IMAX	mg/L		1/month	Grab
	SAMPLE										
	MEASUREMENT					< 0.003					
Bis(2-	PERMIT					Report	Report				
Ethylhexyl)Phthalate	REQUIREMENT	XXX	XXX	XXX	XXX	Avg Mo	IMAX	mg/L		1/month	Grab
<u> </u>	SAMPLE					_		_			
	MEASUREMENT					< 0.03					
	PERMIT					0.0003					
Dieldrin	REQUIREMENT	XXX	XXX	XXX	XXX	Avg Mo	XXX	ug/L		1/month	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.	1 1 g1 -	TEI	LEPHONE	DATE		
Jonathan Harris, BEC by direction of BRAC PMO, and in my official capacity	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,	Jonathan Havins	215	897 4915	2023	11	22
TYPED OR PRINTED	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. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNÄTURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY

COMMENTS (Report all violations on the "Non-Compliance Reporting Form"): Per the permit section C(E)(1), the dieldrin quantitation limit is 0.05 micrograms per liter. For the purpose of compliance, a statistical value report on the DMR that is less than the QL(s) (i.e., "non-detect) will be considered to be in compliance.

3800-FM-BCW0462 12/2016



PERMITTEE NAME/ADDRESS

WATERSHED

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

002

OUTFALL NUMBER

Facility Type: Minor

NAME	Naval Facilities Mid Atlantic
ADDRESS	4911 South Broad Street
	Philadelphia, PA 19112
FACILITY	Willow Grove NASJRB
LOCATION	Site 5

Montgomery County

MONITORING PERIOD										
YEAR	МО	DAY		YEAR	МО	DAY				
2023	10	1	ТО	2023	10	31				

0920203

PERMIT NUMBER

Reporting Frequency: Monthly

DMR Effective From: February 1, 2021

DMR Effective To: January 31, 2026

Permit Expires: January 31, 2026

Permit Application Due: August 4, 2025

__ Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE	
FARAIVIETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT					0.00140					
1,1-Dichloroethylene	PERMIT REQUIREMENT	XXX	XXX	xxx	xxx	Report Avg Mo	Report IMAX	mg/L		1/month	Grab
	SAMPLE MEASUREMENT					0.00105					
Trichloroethylene	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	Report IMAX	mg/L		1/month	Grab
	SAMPLE MEASUREMENT					< 0.00431					
PFOA	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report IMAX	ug/L		1/month	Grab
	SAMPLE MEASUREMENT					< 0.00431					
PFOS	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report IMAX	ug/L		1/month	Grab
	SAMPLE MEASUREMENT					< 0.00431					
Total PFOA and PFOS	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.07 Avg Mo	XXX	ug/L		1/month	Calculation

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.	() 10-01	TEI	LEPHONE	DATE		
Jonathan Harris, BEC by direction of BRAC PMO, and in my official capacity	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,	Sonathon Harris	215	897 4915	2023	11	22
TYPED OR PRINTED	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. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY

COMMENTS (Report all violations on the "Non-Compliance Reporting Form"): Per the permit section C(E)(1), the dieldrin quantitation limit is 0.05 micrograms per liter. For the purpose of compliance, a statistical value report on the DMR that is less than the QL(s) (i.e., "non-detect) will be considered to be in compliance.

