

# Southeast Regional Office CLEAN WATER PROGRAM

Application Type	Renewal
Facility Type	Municipal
Major / Minor	Major

# NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No.	PA0043974
APS ID	999174
Authorization ID	1283463

Applicant and Facility Information								
Applicant Name	Valley Forge Sewer Authority	Facility Name	Valley Forge Sewer Authority WWTP					
Applicant Address	333 Pawling Road	Facility Address	333 Pawlings Road					
	Phoenixville, PA 19460-2656		Phoenixville, PA 19460					
Applicant Contact	Martin Goldberg	Facility Contact	Martin Goldberg					
Applicant Phone	(610) 935-1553	Facility Phone	(610) 935-1553					
Client ID	85898	Site ID	255005					
Ch 94 Load Status	Not Overloaded	Municipality	Schuylkill Township					
Connection Status	Self Imposed Connection Prohibition	County	Chester					
Date Application Rece	eived July 29, 2019	EPA Waived?	No					
Date Application Acce	epted	If No, Reason	Major Facility, Pretreatment					

#### **Summary of Review**

The applicant requests renewal of an NPDES permit to discharge treated sewage from Valley Forge Sewer Authority WWTP.

The plant consists of two primary clarifiers, two aeration tanks, four final clarifiers, UV disinfection, three gravity thickeners and three centrifuges. Sodium Hypochlorite is used for back up disinfection and for return activated sludge.

The following municipalities are served by this facility: Charlestown Twp, East Vikeland Twp, East Whiteland Twp, Malvern Borough, Schuylkill Twp, Tredyffrin Twp, and Willistown Twp.

The facility also accepts hauled in Municipal and Residual wastes.

Biosolids produced at the facility are disposed by land application at various locations.

Facility has an approved pretreatment program and is required to continue implementing the program.

The following are the Significant Industrial Users (SIUs) contributing their wastewater to the VFSA system:

- 1. Micron Technologies, Inc. (Catalent)
- 2. Devault Foods
- 3. Janssen Biotech Inc.
- 4. Fujirebio Diagnostics (201) Inc.
- 5. Infiana USA Inc.
- 6. Paoli Memorial Hospital
- 7. PECO Energy

Approve	Deny	Signatures	Date
		Sara Reji Abraham, E.I.T. / Project Manager	
		Pravin C. Patel, P.E. / Environmental Engineer Manager	

#### **Summary of Review**

According to the permittee, VFSA treatment plant is not currently in or projected to be in a hydraulic or organic overload condition.

Based on the review of the DMRs, the discharge is in compliance with the permit limits most of the time. In 2002 the Department conducted a Schuylkill River Reallocation Study for all the dischargers between Black Run Dam and Norristown Dam. The then permit was prepared with CBOD5, NH3-N and DO limits based on the study. Mass loading limits are still the same. Concentration limits were adjusted during the last permit term when the permitted flow was increased.

A new WQM model run was conducted which also provides the same limits for CBOD5, NH3-N and DO for the new permit.

Influent monitoring for BOD5, CBOD5 and TSS are continued based on Chapter 94 requirement and to check compliance with the 85% removal requirement for secondary treatment.

In April 2007, EPA established the PCB TMDL for Schuylkill River to address the PCB impairment of Schuylkill River. The TMDL was established using a water quality criterion of 0.044 ng/l for PCBs. This facility is included in the TMDL with an assigned WLA of 1.82 \* 10<sup>-3</sup> g/day. The review of 2017 and 2018 sampling results show elevated PCB concentration in the discharge. Special condition requiring the implementation of PMP and annual sampling for dry weather and wet weather, is included in Part C of the permit similar to the existing condition.

#### **Public Participation**

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

#### Act 14 Notifications:

Schuylkill Township - January 25, 2019 Chester County - January 25, 2019

#### Permit Conditions:

- A. No Stormwater
- B. Acquire Necessary Property Rights
- C. Proper Sludge Disposal
- D. No unconventional oil and gas wastewater
- E. Chlorine Optimization
- F. Operator Notification
- G. TMDL/WLA Analysis
- H. Fecal Coliform Reporting
- I. Hauled-in Waste Condition
- J. Operations and Maintenance Plan
- K. Pretreatment Program Implementation
- L. Solids Management
- M. WET Testing Requirements
- N. Stormwater Requirements
- O. PCB/PMP Requirements

Discharge, Receiving V	Discharge, Receiving Waters and Water Supply Information								
Outfall No. 001		Design Flow (MGD)	11.75						
Latitude 40° 7' 5	5.67"	Longitude	-75º 28' 1.87"						
Quad Name Valle	ey Forge	Quad Code	1842						
Wastewater Description	ion: Treated Sewage Effluent								
			_						
Receiving Waters	Schuylkill River (WWF, MF)	Stream Code	00833						
NHD Com ID	26003372	RMI	32.0						
Drainage Area	1690 sq. mi.								
Q <sub>7-10</sub> Flow (cfs)	343	Q <sub>7-10</sub> Basis	PA Stream Stats						
Elevation (ft)	69.4								
Watershed No.	3-F	Chapter 93 Class.	WWF, MF						
Assessment Status	Impaired								
Cause(s) of Impairme	ent POLYCHLORINATED BIPHEN	NYLS (PCBS)							
Source(s) of Impairme	ent SOURCE UNKNOWN								
TMDL Status	Final, 04/07/2007	Name Schuylkill Ri	ver PCB TMDL						

	Tre	eatment Facility Summa	ry	
Γreatment Facility Naι	<b>ne:</b> Valley Forge Sewer A	uthority WWTP		
WQM Permit No.	Issuance Date			
1599422	06/19/2000			
1599422 A2	12/28/2010			
	Degree of			Avg Annual
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)
Sewage	Secondary	Extended Aeration	UV	11.75
	-			
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposa
11.75	26,700	Not Overloaded	Centrifugation	Land Application

# **Compliance History**

# DMR Data for Outfall 001 (from August 1, 2018 to July 31, 2019)

Parameter	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18
Flow (MGD)												
Average Monthly	8.039	8.33	8.818	7.793	9.812	8.71	9.51	9.09	9.64	7.75	9.24	8.09
Flow (MGD)												
Daily Maximum	10.96	15.24	11.319	8.64	14.93	10.44	13.37	14.54	14.34	10.13	13.96	12.49
pH (S.U.)												
Instantaneous												
Minimum	6.8	7.1	7.1	7.0	7.0	7.0	7.0	6.9	7.0	7.1	7.0	7.0
pH (S.U.)												
Instantaneous												
Maximum	7.3	7.5	7.5	7.3	7.3	7.2	7.4	7.6	7.8	7.8	7.5	7.6
DO (mg/L)												
Instantaneous												
Minimum	7.5	7.8	8.1	8.6	8.4	8.9	8.6	8.5	8.2	8.2	7.8	7.6
DO (mg/L)												
Average Monthly	8.1	8.2	8.9	9.2	9.5	9.6	9.3	9.3	8.9	8.5	8.3	8.1
TRC (mg/L)												
Average Monthly	0.04	GG										
TRC (mg/L)												
Instantaneous												
Maximum	0.06	GG										
CBOD5 (lbs/day)												
Average Monthly	< 297	382	< 299	242	< 353	< 355	< 377	293	< 345	< 243	< 303	< 285
CBOD5 (lbs/day)												
Raw Sewage Influent												
 br/> Average												
Monthly	9865	8288	8098	9070	9592	9696	11167	8814	8968	9439	9562	7895
CBOD5 (lbs/day)												
Weekly Average	435	444	406	273	409	404	551	373	582	< 282	409	< 426
CBOD5 (mg/L)												
Average Monthly	< 4	5	< 4	4	< 4	< 5	< 5	4	< 4	< 4	< 4	< 4
CBOD5 (mg/L)												
Raw Sewage Influent												
 br/> Average												
Monthly	154	124	120	142	119	132	148	115	112	146	119	120
CBOD5 (mg/L)												
Weekly Average	7	6	5	4	5	5	6	5	6	4	5	< 5

#### NPDES Permit Fact Sheet Valley Forge Sewer Authority WWTP

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BOD5 (lbs/day)												
Raw Sewage Influent												
  Average	44050	0400	00.47	40474	44004	44550	40000	0000	0005	40000	0770	0007
Monthly	11050	9190	8347	10171	11264	11553	13063	9896	9685	10269	9778	8037
BOD5 (mg/L)												
Raw Sewage Influent												
 br/> Average												
Monthly	172	138	123	158	141	156	166	130	120	159	131	122
TSS (lbs/day)												
Average Monthly	354	551	382	< 232	481	495	563	456	579	325	493	389
TSS (lbs/day)												
Raw Sewage Influent												
 br/> Average												
Monthly	13002	12461	9246	13809	14225	12717	15221	11259	14336	14846	14214	11628
TSS (lbs/day)												
Weekly Average	511	710	531	264	560	590	775	637	1079	404	715	502
TSS (mg/L)												
Average Monthly	5	8	5	< 4	6	7	7	6	7	5	6	6
TSS (mg/L)												
Raw Sewage Influent												
 br/> Average												
Monthly	202	183	136	215	178	173	194	148	180	232	188	177
TSS (mg/L)	-						-	_		-		
Weekly Average	7	9	6	4	7	9	10	8	11	5	8	7
Total Dissolved Solids												
(mg/L)												
Average Monthly	532	495	547	553	674	729	612	628	454	464	507	439
Total Dissolved Solids												
(mg/L)												
Daily Maximum	574	542	651	583	821	1050	707	757	520	499	546	487
Fecal Coliform	<b>.</b> .	0.2							020		0.0	
(No./100 ml)												
Geometric Mean	< 14	9	< 2	< 5	9	< 4	9	< 5	< 4	< 3	< 4	< 6
Fecal Coliform		- G		10		` .	Ŭ	10	, ,	10	1.	- 10
(No./100 ml)												
Instantaneous												
Maximum	462	300	1987	388	72	48	58	609	30	116	1987	200
UV Transmittance (%)	102	- 555	1001	- 555		10	- 55	- 555			1007	200
Minimum	49.3	50.3	51.7	53.0	54.9	57.6	64.4	43.5	43.5	50	64.0	46.9
Total Nitrogen (mg/L)	70.0	50.5	51.7	55.0	J <del>4</del> .3	57.0	04.4	70.0	70.0	30	04.0	70.9
Average Monthly	18.4	15.3	15.4	17.0	16.3	19.3	16.9	16	13.3	< 19.3	14.6	17.8
Ammonia (lbs/day)	10.4	10.0	13.4	17.0	10.5	19.5	10.5	10	13.3	< 13.3	14.0	17.0
	. 40	, 7E	- 60	, EE	- 164	. 76	- 101	. 77	, GE	. 22	, OF	. 60
Average Monthly	< 43	< 75	< 60	< 55	< 164	< 76	< 104	< 77	< 65	< 33	< 85	< 63

#### NPDES Permit Fact Sheet Valley Forge Sewer Authority WWTP

#### NPDES Permit No. PA0043974

Ammonia (mg/L)												
Average Monthly	< 0.5	< 0.9	< 0.8	< 0.8	< 1.9	< 1.0	< 1.3	< 0.9	< 0.8	< 0.5	< 1.1	< 0.9
Total Phosphorus												
(mg/L)			- 0									4.0
Average Monthly	5.5	4.5	5.2	5.3	3.8	4.1	4	3.9	3.6	4.9	3.0	4.6
Total Copper (lbs/day)	0.30	0.50	0.40	0.80	0.70	0.90	0.50	1.27	0.40	0.40	0.40	0.30
Average Monthly Total Copper (lbs/day)	0.30	0.50	0.40	0.60	0.70	0.90	0.50	1.27	0.40	0.40	0.40	0.30
Daily Maximum	0.30	0.50	0.40	1.21	0.70	0.90	0.50	1.27	0.40	0.40	0.40	0.30
Total Copper (mg/L)												
Average Monthly	0.0048	0.0083	0.0054	0.012	0.0081	0.011	0.0071	0.017	0.0071	0.0047	0.0073	0.0059
Total Copper (mg/L)												
Daily Maximum	0.0048	0.0083	0.0054	0.019	0.0081	0.011	0.0071	0.017	0.0071	0.0047	0.0073	0.0059
PCBs (Dry Weather)												
(pg/L) Daily Maximum								670.9				
PCBs (Wet Weather)								670.9				
(pg/L)												
Daily Maximum								876.9				
Chronic WET -								0.0.0				
Ceriodaphnia Survival												
(TUc)												
Daily Maximum								100				
Chronic WET -												
Ceriodaphnia												
Reproduction (TUc)								400				
Daily Maximum								100				
Chronic WET -												
Pimephales Survival (TUc)												
Daily Maximum								100				
Chronic WET -								100				
Pimephales Growth												
(TUc)												
Daily Maximum								100				

#### **Compliance History**

Effluent Violations for Outfall 001, from: September 1, 2018 To: July 31, 2019

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Fecal Coliform	09/30/18	IMAX	1987	No./100 ml	1000	No./100 ml
Fecal Coliform	05/31/19	IMAX	1987	No./100 ml	1000	No./100 ml

Development of Effluent Limitations										
Outfall No.	001		Design Flow (MGD)	11.75						
Latitude	40° 7' 6.55"		Longitude	-75° 28' 2.12"						
Wastewater D	Wastewater Description: Treated Sewage Effluent									

#### **Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pН	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform				
(5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform				
(5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform				
(10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform				
(10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

#### **Water Quality-Based Limitations**

Parameter	Limit (mg/l)	SBC	Model
CBOD5	16	Average Monthly	WQM 7.0
Total Suspended Solids	30	Average Monthly	DRBC
Total Dissolved Solids	1000	Average Monthly	DRBC
NH3-N	6.3	Average Monthly	WQM 7.0
DO	5.0	Inst.Min.	WQM 7.0
pH	Within 6.0 to	9.0 Std. all time	Ch. 93
Fecal Coliform	200/1000	Geo.mean/Imax	Ch.93 and DRBC
TRC*	0.42	Average Monthly	Spreadsheet
UV Transmittance	Report	Min.	Data Collection/SOP
Total Phosphorus	Report	Average Monthly	Data Collection/SOP
Total Nitrogen	Report	Average Monthly	Data Collection/SOP

<sup>\*</sup> monitoring needed only during the use of chlorine.

#### **Anti-Backsliding**

N/A

<sup>\*\*</sup> All these limits are similar to the existing limits except TRC limit.

"Reasonable Potential Analysis" determined that the following are parameters of concern:

Effluent Parameter Name	Reported on Application  Max.	Most Stringent Criterion (ug/l)	Further Interest	WQBEL	Comments
Total Dissolved Solids*	1050000	500000	Yes		Limit/existing
Total Cadmium	0.5	0.271	Yes	2.875	No monitoring
Copper, Total	17	9.3	Yes	27.447	Existing limit/changed
Selenium, Total	8	5	Yes	40.711	No monitoring
Hexachlorobutadiene	<0.51	0.44	Yes	13.033	No monitoring

<sup>\*</sup> Since TDS concentration is elevated, the major constituents of TDS; Chloride, Bromide, Sulfate are required to be monitored in the permit.

See attached PENTOXSD, WQM 7.0 and TRC reports:

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A
PDF





pentoxsd

wqm 7.0

tro

A tributary hardness of 139 mg/l (from application) and a discharge hardness of 170 mg/l (from application) are used for the PENTOXSD run. Effluent limit for Copper is changed from the previous permit due to the change in Stream Hardness. DMR review shows the facility is able to meet the new Copper limits.

Outfall No.	002		Design Flow (MGD)	_ 0
Latitude	40° 17' 0.00"		Longitude	-75° 27' 50.00"
Wastewater D	escription:	Stormwater		

According to the permittee there is no discharge from Outfall 002. Stormwater monitoring is only needed upon request similar to the existing permit.

	Whole Effluent Toxicity (WET)								
_ ^									
ror Out	fall 001, 🗌 Acute 🛛 Chronic WET Testing was completed:								
$\neg$	For the permit renewal application (4 tests).								
=									
	Quarterly throughout the permit term.								
	Quarterly throughout the permit term and a TIE/TRE was conducted.								
adj									
$\triangle$	Other: annually								

The dilution series used for the tests was: 100%, 60%, 30%, 10%, and 5%. The Target Instream Waste Concentration (TIWC) to be used for analysis of the results is: 10%

Please see the attached Wet Summary and Evaluation:



Wet Summary and evaluation

Based on the review of the submitted WET reports, no permit limit is required.

Annual monitoring for Chronic WET is required, and the WET condition is included in Part C of the permit.

# **Proposed Effluent Limitations and Monitoring Requirements**

# Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

		Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units	(lbs/day) (1)		Concentrat	ions (mg/L)		Minimum (2)	Required	
r ai ailietei	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type	
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded	
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab	
DO	XXX	XXX	5.0 Inst Min	Report	XXX	XXX	1/day	Grab	
TRC*	XXX	XXX	XXX	0.42	XXX	0.52	1/day	Grab	
CBOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/day	24-Hr Composite	
CBOD5 Nov 1 - Apr 30	1918	3069	XXX	20	30	40	1/day	24-Hr Composite	
CBOD5 May 1 - Oct 31	1535	2302	XXX	16	24	32	1/day	24-Hr Composite	
BOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite	
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/day	24-Hr Composite	
TSS	2939	4410	XXX	30	45	60	1/day	24-Hr Composite	
Total Dissolved Solids	XXX	XXX	XXX	1000	2000 Daily Max	2500	1/week	24-Hr Composite	
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/day	Grab	
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/day	Grab	
UV Transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured	
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite	

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

		Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units	(lbs/day) (1)	Concentrations (mg/L)				Minimum (2)	Required	
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type	
Ammonia								24-Hr	
Nov 1 - Apr 30	1228	XXX	XXX	12.5	XXX	25	1/day	Composite	
Ammonia								24-Hr	
May 1 - Oct 31	614	XXX	XXX	6.3	XXX	12.5	1/day	Composite	
								24-Hr	
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/week	Composite	
		4.21			0.043			24-Hr	
Total Copper	2.65	Daily Max	XXX	0.027	Daily Max	0.068	1/month	Composite	
				Report				24-Hr	
Chloride	XXX	XXX	XXX	Avg Qrtly	XXX	XXX	1/quarter	Composite	
				Report				24-Hr	
Bromide	XXX	XXX	XXX	Avg Qrtly	XXX	XXX	1/quarter	Composite	
				Report				24-Hr	
Sulfate, Total	XXX	XXX	XXX	Avg Qrtly	XXX	XXX	1/quarter	Composite	
				Report				24-Hr	
PCBs (Dry Weather) (pg/L)	XXX	XXX	XXX	Daily Max	XXX	XXX	1/year	Composite	
				Report				24-Hr	
PCBs (Wet Weather) (pg/L)	XXX	XXX	XXX	Daily Max	XXX	XXX	1/year	Composite	
Chronic WET - Ceriodaphnia				Report				24-Hr	
Survival (TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	See Permit	Composite	
Chronic WET - Ceriodaphnia				Report				24-Hr	
Reproduction (TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	See Permit	Composite	
Chronic WET - Pimephales				Report				24-Hr	
Survival (TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	See Permit	Composite	
Chronic WET - Pimephales				Report				24-Hr	
Growth (TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	See Permit	Composite	

Other Comments: \*monitor only during the use of chlorine.

#### **Proposed Effluent Limitations and Monitoring Requirements**

#### Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

			Effluent L	imitations			Monitoring Red	Monitoring Requirements	
Parameter	Mass Units	Mass Units (lbs/day) <sup>(1)</sup>			tions (mg/L)	Minimum (2)	Required		
r ai ailietei	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	Upon Request	Grab	
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	Upon Request	Grab	
COD	XXX	XXX	XXX	XXX	Report	XXX	Upon Request	Grab	
TSS	XXX	XXX	XXX	XXX	Report	XXX	Upon Request	Grab	
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	Upon Request	Grab	
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	XXX	Report	XXX	Upon Request	Grab	
TKN	XXX	XXX	XXX	XXX	Report	XXX	Upon Request	Grab	
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	Upon Request	Grab	
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	Upon Request	Grab	