

 Application Type
 Renewal

 Facility Type
 Municipal

 Major / Minor
 Minor

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0042021

 APS ID
 1066362

 Authorization ID
 1401250

## **Applicant and Facility Information**

Applicant Name	Milford - Trumbauersville Area Sewer Authority	Facility Name	Milford - Trumbauersville WWTP
Applicant Address	1845 Rosenberger Road, P O Box 126	Facility Address	1825 Rosenberger Road
	Spinnerstown, PA 18967		Spinnerstown, PA 18968
Applicant Contact	Harold Koenig	Facility Contact	Harold Koenig
Applicant Phone	(215) 589-6036	Facility Phone	(215) 538-1417
Client ID	64462	Site ID	451862
Ch 94 Load Status	Not Overloaded	Municipality	Milford Township
Connection Status	No Limitations	County	Bucks
Date Application Rece	vived	EPA Waived?	Yes
Date Application Acce	epted	If No, Reason	

## Summary of Review

The applicant requests renewal of an NPDES permit to discharge 0.8 MGD of treated sewage from a wastewater treatment plant. The treated effluent is discharged into Unami Creek, which is classified as HQ-TSF.

The facility consists of 2 aerated equalization lagoons, 4 extended aeration (DAVCO) units (active) with integral clarification and sludge holding units, 2 multimedia sand filters, chlorine contact basin, dechlorination contact basin and chemical addition for phosphorous removal.

Two DAVCO units are currently being rebuilt to working condition.

The wastewater chemicals used at the facility and listed in the application are: Aluminum sulfate (phosphorus removal), Polymer (phosphorus removal), Chlorine Gas (disinfection), and Sulfur Dioxide (de-chlorination)

The Municipalities served by the plant are Milford Township, and Trumbauersville Borough.

DMR review shows the discharge is in compliance with the existing permit limitations. No comments received from operations section.

There are no changes in the waste characteristics, receiving stream designation and flow quantity.

Monitoring for Total Nitrogen and E- Coli is included in the draft permit as per SOP.

Application reports a TDS concentration of 1280 mg/l (max) and 856 mg/l (average). TDS limit is included in the draft permit. Two-year compliance time is also incorporated in the draft permit.

Approve	Deny	Signatures	Date
х		Sara Abraham Sara Reji Abraham, E.I.T. / Project Manager	August 2, 2022
х		<b><i>Pravin Patel</i></b> Pravin C. Patel, P.E. / Environmental Engineer Manager	08/08/2022

#### Summary of Review

For fecal coliform the 10% rule doesn't apply due to anti-backsliding and special protection waters discharge.

The existing permit has Copper limits which are based on a WER and site-specific criteria study report dated February 2009. These limits were incorporated in the permit through a permit amendment in 2011. According to DEP SOP, a Part C condition is established in the draft permit that requires site-specific data collection and provide an option to conduct a new site-specific criteria study (SSCS). The new SSCS for Copper must be conducted using the Biotic Ligand Model. If the permittee chooses not to proceed with a new SSCS, water quality effluent limitations for Copper will be developed based on a statewide Copper Criteria and discharge and surface water characteristics for the subsequent reissuance of this permit.

A WQM model run was conducted and CBOD5 and NH3 limits are adjusted accordingly.

Influent monitoring for CBOD5, TSS and BOD5 are recommended in the draft permit to check compliance with the 85% removal requirement and Chapter 94 requirement. These monitoring requirements are consistent with the requirements of other similar discharges in the area.

There are various industrial - commercial users connected to the sewer system. However, no Significant Industrial or Non-Significant Categorical Industrial Users listed in the application.

Sludge use and disposal description and location(s): the facility is hauling away sludge to other POTWs.

Current permit includes bypass language, which is carried over to this renewal. In response to DEP's March 1, 2016 request that the Authority prepare a High Flow Maintenance Plan, a plan was developed. An update of the original report is included with the renewal application. Part C of the permit includes language requiring implementation of the plan.

#### 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:

Milford Township	-	April 25, 2022
Trumbauersville Borough	-	April 25, 2022
Bucks County	-	April 26, 2022

## Permit Requirements:

- A. No Storm Water
- B. Acquire Necessary Property Rights
- C. Proper Sludge Disposal
- D. Chlorine Optimization
- E. Small Stream Discharge
- F. Operator Notification
- G. Operation and Maintenance Plan
- H. High Flow Management Plan
- I. Bypass Requirements
- J. TDS Determination Condition
- K. Solids Management
- L. Site Specific Criteria Study

Outfall No. 001	Design Flow (MGD)	.8
Latitude 40° 25' 8.14"	Longitude	-75º 24' 30.69"
Quad Name Milford Square	Quad Code	1542
Wastewater Description: Treated Sewage Effluent		
Receiving Waters Unami Creek (HQ-TSF)	Stream Code	001362
NHD Com ID _25981730	RMI	10.1
Drainage Area 18.1 square miles		
Q <sub>7-10</sub> Flow (cfs)0.656	Q7-10 Basis	USGS streamstats
Elevation (ft) 435	Slope (ft/ft)	0.0013
Watershed No. 3-E	Chapter 93 Class.	HQ-TSF
Assessment Status Attaining Use(s)		

	Tre	eatment Facility Summar	у	
reatment Facility Na	me: Milford-Trumbauersvil	le WWTP		
WQM Permit No.	Issuance Date			
0993405	10/15/1993			
0996414	12/23/1996			
	Degree of			Avg Annua
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)
		Activated Sludge With	Chlorine With	
Sewage	Tertiary	Solids Removal	Dechlorination	0.8
lydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	<b>Biosolids Treatment</b>	Use/Disposa
0.8	1334	Not Overloaded	Aerobic Digestion	Other WWTF

## **Compliance History**

## DMR Data for Outfall 001 (from June 1, 2021 to May 31, 2022)

Parameter	MAY-22	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21
Flow (MGD)												
Average Monthly	0.732	0.779	0.674	0.741	0.630	0.489	0.593	0.514	0.447	0.579	0.589	0.660
Flow (MGD)												
Daily Maximum	1.023	1.089	0.943	1.245	1.037	0.604	1.016	1.041	0.773	1.064	0.809	1.059
pH (S.U.)												
Instantaneous												
Minimum	6.5	6.4	6.4	6.2	6.1	6.1	6.5	6.6	6.6	6.1	6.2	6.5
pH (S.U.)												
Instantaneous												
Maximum	7.1	7.0	7.0	7.3	7.9	7.2	7.2	7.3	7.8	7.8	7.5	7.6
DO (mg/L)												
Instantaneous												
Minimum	7.9	7.5	8.4	7.1	7.5	6.7	8.2	7.7	7.4	7.5	8.1	6.9
TRC (mg/L)												
Average Monthly	0.0016	0.001	0.0001	0.0018	0.0052	0.0026	0.016	0.0042	0.0033	0.0074	0.0074	0.0053
TRC (mg/L)												
Instantaneous												
Maximum	0.02	0.02	0.02	0.01	0.03	0.03	0.03	0.02	0.02	0.03	0.04	0.02
CBOD5 (lbs/day)												
Average Monthly	12.0	16.1	11.4	26.0	17.6	13.2	9.4	8.8	7.6	11.2	9.1	10.7
CBOD5 (lbs/day)												
Weekly Average	15.8	17.85	12.0	65.4	28.3	19.1	10.5	11.2	10.5	11.9	11.2	12.8
CBOD5 (mg/L)												
Average Monthly	2.0	2.4	2.0	3.4	3.2	3.3	2.0	2.0	2.0	2.0	2.0	2.0
CBOD5 (mg/L)												
Weekly Average	2.0	3.8	2.0	7.1	4.4	5.2	2.0	2.0	2.0	2.0	2.0	2.0
BOD5 (lbs/day)												
Raw Sewage Influent												
 Average												
Monthly	620	645	707	914	687	554	473	664	960	979	711	1209
BOD5 (mg/L)												
Raw Sewage Influent												
  Average				1.5.5								
Monthly	101	85.0	126	120	125.5	116	92.9	170	113	175	154	209
TSS (lbs/day)												<i>i</i>
Average Monthly	23.9	29.5	29.7	46.3	45.3	28.5	23.4	24.7	20.8	42.1	23.9	23.1

## NPDES Permit Fact Sheet Milford - Trumbauersville WWTP

## NPDES Permit No. PA0042021

TSS (lbs/day)												
Weekly Average	31.6	35.7	38.5	110.6	87.5	56.9	36.9	30.4	41.6	125.6	43.9	25.3
TSS (mg/L)	0.110				0110							
Average Monthly	4.0	4.0	5.2	6.5	8.2	7.3	5.0	5.8	5.7	6.9	5.5	4.4
TSS (mg/L)												
Raw Sewage Influent												
  Average												
Monthly	43.5	36.0	42.7	65.4	44.5	63.0	48.0	54.0	46.4	53.0	43.6	45.4
TSS (mg/L)												
Weekly Average	4.0	4.0	6.4	12.0	13.6	15.5	8.0	7.6	14.4	18.5	11.6	5.6
Total Dissolved Solids												
(mg/L)												
Daily Maximum			1040			689			928			1020
Fecal Coliform												
(No./100 ml)												
Geometric Mean	1.0	2.83	7.62	7.18	1.86	2.43	7.0	7.4	1.70	3.15	3.02	2.213
Fecal Coliform												
(No./100 ml)												
Instantaneous	4.0			4.40		17.0	07.0	40.0	44.0	44.0	7.0	4.0
Maximum	1.0	32.0	33.0	148	6.0	17.0	37.0	16.0	14.0	14.0	7.0	4.0
Ammonia (lbs/day)	4.40	0.07	0.04	10.4	0.50	0.40	0.47	0.44	0.00	0.50	0.45	0.54
Average Monthly	1.16	2.67	3.24	10.1	0.53	0.40	0.47	0.44	0.38	0.56	0.45	0.54
Ammonia (mg/L)	0.24	0.35	0.55	1.42	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Average Monthly Total Phosphorus	0.24	0.35	0.55	1.42	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
(lbs/day)												
Average Monthly	4.39	10.63	7.79	10.45	6.81	5.67	5.77	1.86	2.54	3.2	3.97	2.95
Total Phosphorus	4.00	10.00	1.15	10.45	0.01	5.07	5.11	1.00	2.04	0.2	0.01	2.55
(mg/L)												
Average Monthly	0.75	1.48	1.36	1.42	1.25	1.42	1.25	0.45	0.66	0.55	0.89	0.58
Total Copper (lbs/day)	00							00	0.00	0.00	0.00	0.00
Average Monthly	0.0949	0.1124	0.0946	0.1094	0.0861	0.0709	0.0961	0.0630	0.0686	0.0973	0.0862	0.0846
Total Copper (mg/L)												
Average Monthly	0.0163	0.0158	0.0166	0.0153	0.0163	0.0176	0.0205	0.0148	0.0182	0.0178	0.0184	0.0158

## **Development of Effluent Limitations**

Outfall No.	001		Design Flow (MGD)	.8
Latitude	40º 25' 7.95"		Longitude	-75º 24' 30.51"
Wastewater De	escription:	Treated Sewage Effluent		

## The following limitations apply

Parameters	Monthly Ave. Conc (mg/l)	Weekly Ave Conc. (mg/l)	Inst. Max. (mg/l)	Basis
CBOD <sub>5</sub> (5/1 to 10/31)	7.2	10.8	14.4	WQM 7.0*
CBOD₅ (11/1 to 4/30)	14.4	21.6	28.8	seasonal limit
Dissolved Oxygen			6.0 (inst. Min.)	Existing/ WQM 7.0*
TRC	0.04		0.13	Existing
Total Suspended Solids	20	30	40	Existing/BPJ
TDS	1000	2000 (Daily Max.)	2500	DRBC**
NH <sub>3</sub> -N (05/01 to 10/31)	2.2		4.4	WQM 7.0*
NH <sub>3</sub> -N (11/1 to 4/30)	6.6		13.2	seasonal limit
Total N	Report			Data Collection/SOP
Total P (4/1 to 10/31)	1.0		2.0	Existing/BPJ
Total P (11/1 to 3/31)	2.0		4.0	Existing (seasonal limit)
Fecal Coliform (# / 100ml)				, , , , , , , , , , , , , , , , , , , ,
	200 (Geo.Mean)		1000	Ch. 92a /DRBC
E. Coli			Report	Ch. 92a***
PH				
	6.0 to 9.0 std. units	at all times	-	Ch. 93
Copper, Total	0.042		0.084	Existing****

\* See attached WQM model report. CBOD5 and NH3 limits are more stringent compared to the existing limits. Based on the review of DMRs, the facility is able to meet the new limits easily.

\*\* DRBC Regulation 3.10.4.D.2 includes an end-of-pipe TDS limit of 1,000 ppm. 25 Pa Code 93.7 includes TDS criteria, applicable at PWS intakes, of 500 mg/l as a monthly average, and a maximum of 750 mg/l. No public water supply nearby, downstream of the point of discharge.

\*\*\*E. Coli monitoring is included in the draft permit according to the DEP SOP guidance (Chapter 92.a.61). This is a new requirement and is consistent with the requirements of other similar discharges in the area.

\*\*\*Effluent concentrations for Copper reported in the application are 0.037 mg/l (max.) 0.017 (average). The existing permit limit is based on a past WER and continued in the draft permit.

Input Data WQM 7.0

			Stream Code Stream Name				RMI		evation (ft)	Drainage Area (sq mi)	Slope PWS Withdrawa (ft/ft) (mgd)		Apply FC
		1;	362 UNAM	I CREEK			10.10	00	435.00	18.10	0.00000	0.00	$\checkmark$
					S	tream Da	ta						
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Terr	<u>Tributary</u> np pH	Tem	<u>Stream</u> p pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C	)	(°C	)	
Q7-10	0.100	0.00	0.66	0.000	0.000	0.0	0.00	0.0	0 2	0.00 7.0	0	0.00 0.00	)
Q1-10 Q30-10		0.00 0.00		0.000 0.000	0.000 0.000								

Name	Permit Number	scharge Data Existing H Disc Flow	Permitted Disc Flow	Disc Flov	e Reser w Fac	ve 7 or	Disc Temp	Disc pH
Mil Trum STP	PA0042021	(mgd)	(mgd)	(mgo 0.80		.000	(°C) 25.00	7.00
	Pa	rameter Dat	a					
		Disc	Tr	ib S	Stream	Fate		
		Con		onc	Conc	Coef		
Pa	arameter Name							
		(mg/	L) (mg	g/L)		(1/days)		
CBOD5		1(	0.00	2.00	0.00	1.50	)	
Dissolved (	Dxygen	(	6.00	8.24	0.00	0.00	)	
NH3-N			2.30	0.00	0.00	0.70	)	

# Input Data WQM 7.0

		Strea Coo		Stre	eam Name		RMI	Eleva (f		Drain Area (sq	a	Slope (ft/ft)	PW Withd (mę	rawal	Apply FC
		1	362 UNAM	I CREEK			8.94	<b>10</b>	424.73		19.10	).00000		0.00	✓
					S	tream Dat	ta								
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Terr	<u>Tribut</u> 1p	<u>ary</u> pH	Ten	<u>Strean</u> np	n pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C	:)		(°C	C)		
Q7-10 Q1-10 Q30-10	0.100	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000	0.0	0.00	0.00	2	0.00	7.00	)	0.00	0.00	
						ischarge D	ata							1	
			Name	Per	mit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)		erve ctor	Disc Temp (°C)		isc oH		
					Pa	0.0000 arameter E		) 0.000	00	0.000	0	0.00	7.00		
			I	Parameter	Name	С	onc C	onc	tream Conc mg/L)	Fate Coe (1/day	ef				
	-		CBOD5				25.00	2.00	0.00	) .	1.50		-		
			Dissolved NH3-N	Oxygen			3.00 25.00	8.24 0.00	0.00 0.00		0.00 0.70				

# Input Data WQM 7.0

		Stre Co		Stre	eam Name		RMI	Eleva (ft		Drainag Area (sq mi		Slope (ft/ft)	PW Withdi (mg	rawal	Apply FC
		1	362 UNAM	I CREEK			7.75	<b>50</b> - 2	411.93	28	3.10 D	0.00000		0.00	$\checkmark$
					St	tream Dat	a								
Design	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Terr	<u>Tributar</u> ıp	<u>v</u> pH	Tem	<u>Stream</u> p	pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(⁰C	)		(°C)	)		
Q7-10 Q1-10 Q30-10	0.100	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000	0.0	0.00	0.00	2	0.00	7.00	(	0.00	0.00	
						ischarge D	ata								
			Name	Per	mit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)		erve ctor	Disc Temp (°C)	Dis pl			
					P	0.0000 arameter D		0.000	00	0.000	25.0	00	7.00		
			I	Parameter		Di Co	isc T onc C	onc (	ream Conc mg/L)	Fate Coef (1/days)					
	-		CBOD5				25.00	2.00	0.00	1.5	50				
			Dissolved NH3-N	Oxygen			3.00 25.00	8.24 0.00	0.00						

# WQM 7.0 Hydrodynamic Outputs

		SWP Basin		Stream	<u>m Code</u>				Stream N	Name			
		03E		1362									
	RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (ºC)	Analysis pH
7 10 Ela													
7-10 Flo					4 0070	0.00400	500	00.40	07 70	o 45	0.400	00 0 <del>7</del>	7.00
	10.100		0.00	0.66		0.00168	.588	22.19	37.73	0.15	0.489	23.27	7.00
	8.940	0.68	0.00	0.68	1.2376	0.00204	.587	22.27	37.93	0.15	0.495	23.22	7.00
	Q1-1	0 Flow											
	10.100	0.42	0.00	0.42	1.2376	0.00168	NA	NA	NA	0.13	0.526	23.73	7.00
	8.940	0.44	0.00	0.44	1.2376	0.00204	NA	NA	NA	0.14	0.535	23.70	7.00
	Q30-	10 Flow											
	10.100	0.89	0.00	0.89	1.2376	0.00168	NA	NA	NA	0.15	0.457	22.91	7.00
		0.93	0.00	0.93	1.2376		NA	NA	NA	0.16	0.463	22.86	7.00

# **WQM 7.0 Modeling Specifications**

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	$\checkmark$
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	$\checkmark$
D.O. Saturation	90.00%	Use Balanced Technology	$\checkmark$
D.O. Goal	5		

# WQM 7.0 Wasteload Allocations

<u> </u>	SWP Basin Strea	am Code			Stream I	Name			
	03E	1362		I	UNAMI (	CREEK			
NH3-N	Acute Allocatio	ons							
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterior (mg/L)	n V	Iltiple VLA ng/L)	Critical Reach	Percent Reduction	١
10.10	0 Mil Trum STP	7.4	4.6	; 7	7.4	4.6	0	0	_
8.940	0	NA	NA	. 7.	42	NA	NA	NA	
NH3-N C	Chronic Allocati	ons							
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multi WL (mg	A	Critical Reach	Percent Reduction	
10.10	0 Mil Trum STP	1.56	2.3	<b>1</b> .	56	2.3	0	0	
8.940	0	NA	NA	. 1.	56	NA	NA	NA	
Dissolved	Oxygen Allocatio	ons							
		<u>C</u>	BOD5	<u>NH3</u>	<u>-N</u>	<u>Dissolv</u>	ed Oxygen	Critical	Percent
RMI	Discharge Nan	ne Baselin (mg/L)			Multiple (mg/L)	Baseline (mg/L)	e Multiple (mg/L)	Reach	Reductior
10.1 8.94	0 Mil Trum STP 4	7.2 N		2.17 NA	2.17 NA	6 NA	6 NA	0 NA	0 NA

# WQM 7.0 D.O.Simulation

SWP Basin Stream Code Stream Name 03E 1362 **UNAMI CREEK** RMI Total Discharge Flow (mgd) Analysis Temperature (°C) Analysis pH 10.100 0.800 23.268 7.000 Reach Width (ft) Reach WDRatio Reach Depth (ft) Reach Velocity (fps) 22.192 0.588 37.734 0.145 Reach CBOD5 (mg/L) Reach Kc (1/days) Reach NH3-N (mg/L) Reach Kn (1/days) 0.904 1.42 0.900 5.42 Reach Kr (1/days) Kr Equation Reach DO Goal (mg/L) Reach DO (mg/L) 2.498 Tsivoglou 5 6.777 Reach Travel Time (days) Subreach Results 0.489 TravTime CBOD5 NH3-N D.O. (mg/L) (mg/L)(mg/L)(days) 0.049 5.15 1.36 6.34 0.098 4.89 1.30 5.99 0.147 4.65 1.24 5.71 0.195 4.42 1.19 5.49 0.244 4.20 1.14 5.32 0.293 3.99 1.09 5.19 0.342 3.79 1.04 5.10 0.391 3.60 1.00 5.05 0.440 3.42 0.96 5.02 0.489 3.25 0.91 5.02 RMI Total Discharge Flow (mgd) Analysis Temperature (°C) Analysis pH 8.940 0.800 23.224 7.000 Reach Width (ft) Reach Depth (ft) Reach WDRatio Reach Velocity (fps) 22.269 0.587 37.933 0.147 Reach Kc (1/days) Reach NH3-N (mg/L) Reach Kn (1/days) Reach CBOD5 (mg/L) 3.23 0.782 0.90 0.897 Reach DO Goal (mg/L) Reach Kr (1/days) Kr Equation Reach DO (mg/L) 3.068 Tsivoglou 5 5.062 Reach Travel Time (days) Subreach Results 0.495 TravTime CBOD5 NH3-N D.O. (days) (mg/L) (mg/L) (mg/L) 0.050 3.09 0.86 5.20 2.95 0.099 0.83 5.34 0.149 2.82 0.79 5.47 0.198 2.70 0.75 5.60 0.248 2.58 0.72 5.73 0.297 2.47 0.69 5.85

## NPDES Permit Fact Sheet Milford - Trumbauersville WWTP

0.3962.250.636.070.4462.160.606.180.4952.060.586.28	0.347	2.36	0.66	5.96
	0.396	2.25	0.63	6.07
0.495 2.06 0.58 6.28	0.446	2.16	0.60	6.18
	0.495	2.06	0.58	6.28

Wednesday, July 13, 2022

Version 1.0b

Page 1 of 1

# WQM 7.0 Effluent Limits

	<u>SWP Basin</u> Stre	eam Code 1362		<u>Stream Name</u> UNAMI CREEK			
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
10.100	Mil Trum STP	PA0042021	0.000	CBOD5	7.24		
				NH3-N	2.17	4.34	
				Dissolved Oxygen			6

## Anti-Backsliding

N/A

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

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

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

		Monitoring Requirement						
Parameter	Mass Units	(lbs/day) <sup>(1)</sup>		Concentrat	Minimum <sup>(2)</sup>	Required		
Farameter	Average Monthly	Weekly Average	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.)	ххх	XXX	6.0 Inst Min	xxx	xxx	9.0	1/day	Grab
DO	ххх	XXX	6.0 Inst Min	xxx	XXX	ххх	1/day	Grab
TRC	xxx	xxx	xxx	0.04	xxx	0.13	1/day	Grab
CBOD5 Raw Sewage Influent	Report	xxx	XXX	Report	XXX	XXX	1/week	24-Hr Composite
CBOD5 Nov 1 - Apr 30	96	144	XXX	14.4	21.6	28.8	1/week	24-Hr Composite
CBOD5 May 1 - Oct 31	48	72	xxx	7.2	10.8	14.4	1/week	24-Hr Composite
BOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	xxx	1/week	24-Hr Composite
TSS	133	200	XXX	20.0	30.0	40	1/week	24-Hr Composite
TSS								24-Hr
Raw Sewage Influent Total Dissolved Solids	Report Report	XXX Report	XXX	Report Report	XXX Report	XXX	1/week	Composite 24-Hr
(years 1 & 2)	Avg Qrtly	Daily Max	XXX	Avg Qrtly	Daily Max	XXX	1/quarter	Composite
Total Dissolved Solids (years 3, 4 & 5)	6672 Avg Qrtly	13344 Daily Max	xxx	1000.0 Avg Qrtly	2000 Daily Max	2500	1/quarter	24-Hr Composite
Fecal Coliform (No./100 ml)	ххх	XXX	XXX	200 Geo Mean	xxx	1000	1/week	Grab

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

		Effluent Limitations									
Parameter	Mass Units	(lbs/day) <sup>(1)</sup>		Concentrat	Minimum <sup>(2)</sup>	Required					
Farameter	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type			
E. Coli (No./100 ml)	xxx	XXX	XXX	XXX	XXX	Report	1/quarter	Grab			
								24-Hr			
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/week	Composite			
Ammonia								24-Hr			
Nov 1 - Apr 30	44.0	XXX	XXX	6.6	XXX	13.2	1/week	Composite			
Ammonia								24-Hr			
May 1 - Oct 31	14.7	XXX	XXX	2.2	XXX	4.4	1/week	Composite			
Total Phosphorus								24-Hr			
Nov 1 - Mar 30	13.3	XXX	XXX	2.0	XXX	4	1/week	Composite			
Total Phosphorus								24-Hr			
Apr 1 - Oct 31	7.0	XXX	XXX	1.0	XXX	2	1/week	Composite			
								24-Hr			
Total Copper	0.280	XXX	XXX	0.042	XXX	0.084	2/month	Composite			