

Southeast Regional Office CLEAN WATER PROGRAM

 Application Type
 Renewal

 Facility Type
 Municipal

 Major / Minor
 Minor

# NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0031771

 APS ID
 1024982

 Authorization ID
 1330068

#### **Applicant and Facility Information**

Applicant Name	Westtown Township	Facility Name	Westtown-Chester Creek STP		
Applicant Address	PO Box 79	Facility Address	904 Westtown Road		
	Westtown, PA 19395-0079		Westchester, PA 19382		
Applicant Contact	Mark Gross	Facility Contact	Mark Gross		
Applicant Phone	(610) 692-1930	Facility Phone	(610) 692-1930		
Client ID	42451	Site ID	451677		
Ch 94 Load Status	Not Overloaded	Municipality	Westtown Township		
Connection Status	No Limitations	County	Chester		
Date Application Rece	ived October 8, 2020	EPA Waived?	Yes		
Date Application Accept	oted	If No, Reason			
Purpose of Application	Permit Renewal				
Connection Status Date Application Rece Date Application Accep	No Limitations ived October 8, 2020 oted	County EPA Waived?	Chester		

#### Summary of Review

The applicant requests renewal of an NPDES permit to discharge treated sewage from Westtown Chester Creek STP.

The STP consists of a bar screen, grit chambers, equalization tank, aeration tanks, clarifiers, filter unit, UV disinfection and sludge digester. A phosphorus reduction system was added in 2013 in accordance with WQM permit No. 1512416.

Magnesium Hydroxide is used for pH control and Aluminum Chloride Hydroxide Sulfate is used for Phosphorus control at the facility.

Sewage sludge is hauled away to DELCORA for disposal. Facility is not accepting any hauled-in wastes.

A review of the DMRs shows the discharge is in compliance with existing permit limits most of the times. According to the inspection reports the facility is operating well. There are no changes in the treatment system, influent quality, stream designation etc. There are no significant industrial users contributing to this facility.

Existing permit limits are recommended for the new permit.

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

#### 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*,

Approve	Deny	Signatures	Date
х		Sara Abraham Sara Reji Abraham, E.I.T. / Project Manager	October 29, 2020
х		<i><b>Pravin Patel</b></i> Pravin C. Patel, P.E. / Environmental Engineer Manager	10/29/2020

### Summary of Review

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:

Westtown Township	-	September 11, 2020
Chester County Health Department	-	September 11, 2020

Permit Conditions:

- A. No Stormwater
- B. Acquire Necessary Property Rights
- C. Proper Sludge Disposal
- D. Operator Notification
- E. TMDL/WLA Analysis
- F. Fecal Coliform Reporting
- G. Solids Management

Discharge, Receiving	Waters and Water Supply Informati	on					
Outfall No. 001		Design Flow (MGD)	.495				
Latitude 39° 5	7' 1.56"	Longitude	-75° 32' 49.29"				
Quad Name We	st Chester	Quad Code	1941				
Wastewater Descrip	otion: Treated Sewage Effluent						
	East Branch Chester Creek (TSF,						
Receiving Waters	MF)	Stream Code	00604				
NHD Com ID	25621280	RMI					
Drainage Area	8.63 sq. mi.						
			USGS stream				
Q <sub>7-10</sub> Flow (cfs)	1.79	Q7-10 Basis	stats/previous fact sheet				
Elevation (ft)	267						
Watershed No.	3-G	Chapter 93 Class.	TSF, MF				
Assessment Status	Impaired						
Cause(s) of Impairm	nent cause unknown, flow regime r	modification, habitat alteratio	ns, siltation				
Source(s) of Impairr	nent habitat modification - other that	habitat modification - other than hydromodification, urban runoff/storm sewers					

Treatment Facility Summary							
reatment Facility Na	me: Westtown-Chester Cre	ek STP					
WQM Permit No.	Issuance Date						
1512416	12/24/2012						
1500407	02/01/2001						
	,						
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)			
Sewage	Tertiary	Extended Aeration	Ultraviolet	0.495			
lydraulic Capacity	Organic Capacity			Biosolids			
(MGD)	(lbs/day)	Load Status	<b>Biosolids Treatment</b>	Use/Disposa			
0.495	1030	Not Overloaded	Aerobic Digestion	Other WWTP			

## **Compliance History**

## DMR Data for Outfall 001 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
Flow (MGD)												
Average Monthly	0.305	0.259	0.274	0.321	0.36	0.332	0.342	0.323	0.308	0.276	0.273	0.27
Flow (MGD)												
Daily Maximum	0.5	0.554	0.366	0.435	0.583	0.467	0.417	0.413	0.41	0.350	0.324	0.21
pH (S.U.)												
Instantaneous												
Minimum	6.4	6.1	6.5	6.4	6.5	6.5	6.6	6.4	6.6	6.6	6.1	6.1
pH (S.U.)												
Instantaneous												
Maximum	7.5	7.5	7.4	7.2	7.1	7.1	7.2	7.5	7.4	7.2	7.6	7.5
DO (mg/L)												
Instantaneous												
Minimum	7.8	7.5	8.3	8.3	9.9	8.0	10.0	8.0	10.3	9.6	7.6	7.9
CBOD5 (lbs/day)												
Average Monthly	< 6	< 4	< 5	< 5	< 6	< 5	< 6	< 6	< 6	< 5	< 4	< 5
CBOD5 (lbs/day)												
Raw Sewage Influent												
  Average												
Monthly	514	300	361	350	447	511	568	462	434	483	476	536
CBOD5 (lbs/day)												
Weekly Average	< 8	< 4	< 5	< 6	< 10	< 6	< 7	< 7	< 7	< 6	< 5	< 5
CBOD5 (mg/L)												
Average Monthly	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
CBOD5 (mg/L)												
Raw Sewage Influent												
  Average												
Monthly	178	147	159	134	134	194	199	162	154	200	212	222
CBOD5 (mg/L)												
Weekly Average	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
BOD5 (lbs/day)												
Raw Sewage Influent												
  Average												
Monthly	512	390	290	529	432	493	444	474	375	517	359	171

BOD5 (mg/L) Raw Sewage Influent												
<pre>   Average</pre>												
Monthly	168	196	126	198	113	180	160	169	139	236	174	382
TSS (lbs/day)	100	130	120	130	115	100	100	103	155	230	1/4	502
Average Monthly	< 23	10	< 9	< 10	< 13	< 11	< 12	< 11	< 11	< 14	< 17	< 14
TSS (lbs/day)	< 23	10	< 9	× 10	< 15	< 11	< 1Z	< 11	< 11	< 14	< 17	< 14
Raw Sewage Influent												
<pre>  </pre>												
Monthly	596	304	369	344	491	454	441	444	415	592	493	615
TSS (lbs/day)	530	304	505	344	431	434	441	444	415	552	435	013
Weekly Average	40	15	10	< 11	< 19	< 12	< 13	< 13	< 13	26	42	17
TSS (mg/L)		15	10		< 15	< 12	< 10	< 10	< 15	20	74	17
Average Monthly	< 8	5	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 6	< 8	< 6
TSS (mg/L)	<u> </u>	5	~ ~ ~	~ ~	~ ~	~ ~	~ ~	~ ~	~ ~	< 0	< 0	<u> </u>
Raw Sewage Influent												
<pre>   Average</pre>												
Monthly	197	150	162	132	152	173	155	156	149	250	222	256
TSS (mg/L)	107	100	102	102	102		100	100	110	200		200
Weekly Average	11	7	4	< 4	< 4	< 4	< 4	< 4	< 4	12	19	7
Total Dissolved Solids		•	•						· · ·			
(mg/L)												
Daily Maximum			422			460			530			456
Fecal Coliform												
(CFU/100 ml)												
Geometric Mean	< 6	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 2
Fecal Coliform												
(CFU/100 ml)												
Înstantaneous												
Maximum	84	< 1	< 1	3	1	1	1	5	3	< 1	1	8
UV Intensity (µw/cm <sup>2</sup> )												
Minimum	3.4	3.3	3.2	3.5	3.3	1.7	1.0	2.3	2.1	2.5	2.8	3.1
Total Nitrogen (mg/L)												
Average Monthly	< 27.57	< 32.11	< 30.67	< 26.76	< 21.21	< 27.19	< 25.28	< 27.3	< 29.45	< 33.31	< 36.9	< 33.7
Ammonia (Ibs/day)												
Average Monthly	< 0.3	< 0.2	< 0.2	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.2	< 0.2	< 0.2
Ammonia (mg/L)												
Average Monthly	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total Phosphorus												
(lbs/day)												
Average Monthly	1.9	1.8	2.2	2.9	4.3	3.7	4.7	1.2	3.6	2.6	2.2	5.7
Total Phosphorus												]
(mg/L)												
Average Monthly	0.7	0.9	1.0	1.1	1.3	1.4	1.6	1.5	1.2	1.1	1.0	2.3

Total Copper (mg/L)												
Average Monthly	0.017	0.015	0.010	0.009	0.010	0.012	0.011	0.013	0.021	0.017	0.016	0.015
Total Copper (mg/L)												
Daily Maximum	0.017	0.015	0.010	0.009	0.010	0.012	0.011	0.013	0.021	0.017	0.016	0.015

## **Compliance History**

### Effluent Violations for Outfall 001, from: October 1, 2019 To: August 31, 2020

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Total Phosphorus	05/31/20	Δια Μο	1 1	ma/l	1.0	mall
Total Phosphorus	05/31/20	Avg Mo	1.1	mg/L	1.0	mg/L

#### **Development of Effluent Limitations**

Outfall No.	001		Design Flow (MGD)	.495
Latitude	39º 57' 1.61"		Longitude	-75º 32' 49.26"
Wastewater D	escription:	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
CBOD <sub>5</sub>	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)
	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Total Suspended Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	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	Basis
CBOD5 (5/1 to 10/31)	15	Average Monthly	WQM 7.0 model
CBOD5 (11/1 to 4/30)	25	Average Monthly	Seasonal limit
TSS	30	Average Monthly	DRBC
NH3-N (5/1 to 10/31)	2.5	Average Monthly	WQM 7.0 model
NH3-N (11/1 to 4/30)	7.5	Average Monthly	Seasonal limit
Total Phosphorus (5/1 to			
10/31)	1.0	Average Monthly	BPJ
Total Phosphorus (11/1 to			
4/30)	2.0	Average Monthly	Seasonal limit
Dissolved Oxygen	5.0	Inst. Min.	WQM 7.0 model
Fecal Coliform			
(CFU/100ml)	200/1000	Ave.Mon./Inst.Max.	DRBC&Chap. 93
рН	6.0 to 9.0 STI	D units all the times	Chap. 93
Total Nitrogen	Report	Average Monthly	Data Collection
TDS*	Report	Average Monthly	DRBC
UV intensity	Report	Minimum	Data collection
Total Copper **	0.028	Average Monthly	Existing

\*Based on the consistently low TDS concentration , monitoring is recommended to continue.

\*\*Total Copper limit is based on the previous modeling which is protective of the water quality.

All the above limits are existing.

#### Below is the WQM 7.0 report

	SWF Basi			Stre	eam Name		RMI		vation (ft)	Drainag Area (sq mi		Slope (ft/ft)	PWS Withdraw: (mgd)	Apr al F	pły C
	03G		604 EAST	BRANCH	CHESTER	CREEK	1.60	0	267.00	8	.63 0.	.00000	0.	00	
					St	ream Da	ta								
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Ten	<u>Tributan</u> np	⊻ pH	Temp	Stream pH	4	
oonu.	(cfsm)	(cfs)	(Cfs)	(days)	(fps)		(ft)	(ft)	(°C	;)		(°C)			
27-10 21-10 230-10	0.100	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.00	) 2	0.00	7.00	0.	00 0	.00	
					Di	scharge	Data								
			Name	Per	mit Numbe	Disc	Permitte Disc Flow (mgd)	Disc Flov	Res Res	erve	Disc Temp (ºC)	Disc pH			
•		West	town Ches	st PA	0031771	0.000	0 0.000	0 0.49	950	0.000	25.0	00 7	.00		
		-			Pa	arameter	Data								
			I	Paramete	r Name			rib S onc	Stream Conc	Fate Coef					
						(11	ng/L) (m	ig/L)	(mg/L)	(1/days	)				
	4		CBOD5				15.00	2.00	0.00	1.5	0				
			Dissolved	Oxygen			5.00	8.24	0.00	0.0	0				
			NH3-N				2.50	0.00	0.00	0.7	0				

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					Inp	ut Data	a WQI	M 7.0						
	SWP Basir			Stre	eam Name		RM		vation (ft)	Drainage Area (sq mi)	Slog (ft/f	With	VS trawal gd)	Apply FC
	03G	ŧ	604 EAST	BRANCH	CHESTER	CREEK	0.9	40	259.00	10.0	1 0.00	000	0.00	✓
					St	ream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Ten	<u>Tributary</u> 1p pl	4	<u>Strea</u> Temp	m pH	
Cona.	(cfsm)	(cfs)	(cfs)	(days)	(føs)		(ft)	(ft)	(°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 0.000 0.000	0.0	0.00	0.0	0 2	0.00	7.00	0.00	0.00	
					D	ischarge l	Data						7	
			Name	Pe	mit Numbe	Existing Disc T Flow (mgd)	Permit Disc Flov (mgc	v Flo	sc Res w Fa	erve T actor	Disc emp (°C)	Disc pH		
		Wes	ttown Scho	ol PA	0050652	0.000	0.00	0.0 0.0	300	0.000	25.00	7.00		
					Pa	arameter	Data							
				Paramete	r Name	_	isc onc	Trib Conc	Stream Conc	Fate Coef				
						(m	ng/L) (	(mg/L)	(mg/L)	(1/days)				
	_		CBOD5				20.00	2.00	0.00	1.50				
			Dissolved	Oxygen			4.00	8.24	0.00	0.00				
			NH3-N				2.50	0.00	0.00	0.70			ļ	

	SWP Basin	Strea Cod		Stre	am Name		RMI	Eleva (fi		Drainage Area (sq mi)		. w	PWS ithdrawal (mgd)	Apply FC
	03G	e	604 EAST	BRANCH	CHESTER	CREEK	0.00	0 2	250.00	11.6	59 D.O	0000	0.00	V
					St	ream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> ıp p	н	<u>Str</u> Temp	eam pH	
Cona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C	)		(°C)		
Q7-10 Q1-10	0.100	0.00	2.59 0.00	0.000	0.000	0.0	0.00	0.00	2	0.00	7.00	0.00	0.00	)
Q30-10		0.00	0.00	0.000	0.000	1	÷ .							
					Di	scharge	Data							
			Name	Per	mit Number	Disc	Permitte Disc Flow (mgď)	ed Desig Disc Flow (mgd	Res Fa	erve T	Disc Temp (ºC)	Disc pH		
						0.000	0 0.000	0.00	00	0.000	25.00	0 7.0	0	
					Pa	arameter	Data							
				Paramete	r Namo				tream Conc	Fate Coef				
	-			- aramete	Name	(п	ng/L) (r	ng/L) (	(mg/L)	(1/days)				
	-		CBOD5				25.00	2.00	0.00	1.50	)			
			Dissolved	Oxygen			3.00	8.24	0.00	0.00	)			
			NH3-N				25.00	0.00	0.00	0.70	0			

		P Basin		m Code				Stream				
		03G		604		E	AST BRA	CREEK				
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
1.600	1.79	0.00	1,79	.7658	0.00230	.591	20.85	35.27	0.21	0.195	21.50	7.00
0.940	2.27	0.00	2.27	.8122	0.00181	.612	23.04	37.64	0.22	0.263	21.32	7.00
Q1-1	0 Flow											
1.600	1.15	0.00	1.15	.7658	0.00230	NA	NA	NA	0.18	0.229	22.00	7.00
0.940	1.45	0.00	1.45	.8122	0.00181	NA	NA	NA	0.18	0.312	21.79	7.00
Q30-	10 Flow	,										
1.600	2.43	0.00	2.43	.7658	0.00230	NA	NA	NA	0.24	0.172	21.20	7.00
0.940	3.09	0.00	3.09	.8122	0.00181	NA	NA	NA	0.25	0.230	21.04	7.00

# WQM 7.0 Hydrodynamic Outputs

# 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	V
D.O. Saturation	90.00%	Use Balanced Technology	$\checkmark$
D.O. Goal	5		

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<u>SWP Basin</u> 03G		m Code 604			r <u>eam Name</u> CH CHESTER	CREEK	
IH3-N Acute Alloc	ation	3					
RMI Discharge	Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
1.600 Westtown C	Chest	8.37	5	8.37	5	0	0
0.940 Westtown Se	chool	9.57	5	8.5	5	0	0
IH3-N Chronic All	locatio	ons					
IH3-N Chronic All RMI Discharge N		o <b>ns</b> Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
	lame	Baseline Criterion	WLA	Criterion	WLA		

# WQM 7.0 Wasteload Allocations

RMI Discharge Name Baseline Multiple Baseline Multiple Baseline Multiple Reach Reduction (mg/L) (mg/L) (mg/L) (mg/L) (mg/L) 1.60 Westtown Chest 15 2.5 2.5 5 5 15 0 0 0.94 Westtown School 20 20 2.5 2.5 4 4 0 0

<u>SWP Basin</u> 03G	itream Code 604		EAST BR	<u>Stream Name</u> ANCH CHESTER CRE	EK
RMI	Total Discharge	Flow (mgd	<u>) Anal</u>	vsis Temperature (°C)	Analysis pH
1.600	0.49	5		21.498	7.000
Reach Width (ft)	Reach De	oth (ft)		Reach WDRatio	Reach Velocity (fps)
20.852	0.591	1		35.272	0.207
Reach CBOD5 (mg/L)	<u>Reach Kc (</u>	1/days)	<u>R</u>	each NH3-N (mg/L)	Reach Kn (1/days)
5.90	1.09			0.75	0.786
Reach DO (mg/L)	Reach Kr (			Kr Equation	Reach DO Goal (mg/L)
7.271	4.68	6		Tsivoglou	5
Reach Travel Time (days)	1	Subreact	Results		
0.195	TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)	
	0.019	5.76	0.74	7.17	
	0.039	5.63	0.73	7.09	٤
	0.058	5.50	0.72	7.02	
	0.078	5.38	0.70	6.96	
	0.097	5.26	0.69	6,90	
	0.117	5.14	0.68	6.86	
	0,136	5.02	0.67	6.83	
	0.156	4.91	0.66	6.80	
	0.175		0.65	6.78	
	0.195	4.69	0.64	6.77	

# WQM 7.0 D.O.Simulation

RMI	Total Discharge	Flow (mgd)	) <u>Anal</u>	vsis Temperature (°C)	Analysis pH
0.940	0.525	5		21.318	7.000
Reach Width (ft)	Reach Der	oth (ft)		Reach WDRatio	Reach Velocity (fps)
23.041	0.612	2		37.641	0.219
Reach CBOD5 (mg/L)	Reach Kc (	1/days)	R	each NH3-N (mg/L)	Reach Kn (1/days)
4.50	0.937	7		0.57	0.775
Reach DO (mg/L)	Reach Kr (	1/days)		Kr Equation	Reach DO Goal (mg/L)
6.957	3.88	5		Tsivoglou	5
each Travel Time (days)		Subreach	Results		
0.263	TravTime	CBOD5	NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.026	4.38	0.56	6.93	
	0.053	4.27	0.55	6.92	
	0.079	4.16	0.54	6.91	
	0.105	4.05	0.53	6.91	
	0.131	3.95	0.52	6.91	
	0.158	3.85	0.51	6.91	
	0.184	3.75	0.49	6.93	
	0.210	3.65	0.48	6.94	
	0.237	3.56	0.48	6.96	
	0.263		0.47	6.98	

	SWP Basin	Stream Coc	ie		Stream Name			
	03G	604		EA	ST BRANCH CHEST	ER CREEK		
RMI	Name		Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effi, Limit Minimum (mg/L)
1.600	Westtown Ch	est P	A0031771	0.000	CBOD5	15		
					NH3-N	2.5	5	
					Dissolved Oxygen			5
RMI	Name		Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limi Minimum (mg/L)
0.940	Westtown Sch	iool F	A0050652	0.000	CBOD5	20		
					NH3-N	2.5	5	
					Dissolved Oxygen			4

# WQM 7.0 Effluent Limits

## 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.

			Effluent L	imitations.			Monitoring Re	quirements
Deremeter	Mass Units	; (lbs/day) <sup>(1)</sup>		Concentrat	tions (mg/L)		Minimum <sup>(2)</sup>	Required
Parameter	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	ххх	Continuous	Metered
pH (S.U.)	ххх	xxx	6.0 Inst Min	xxx	xxx	9.0	1/day	Grab
DO	ххх	xxx	5.0 Inst Min	xxx	xxx	xxx	1/day	Grab
CBOD5 Nov 1 - Apr 30	103	165	XXX	25	40	50	1/week	24-Hr Composite
CBOD5 Raw Sewage Influent	Report	xxx	xxx	Report	xxx	ххх	1/week	24-Hr Composite
CBOD5 May 1 - Oct 31	62	95	xxx	15	23	30	1/week	24-Hr Composite
BOD5 Raw Sewage Influent	Report	xxx	XXX	Report	XXX	xxx	2/month	24-Hr Composite
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
¥				•				24-Hr
TSS	124	186 Report	XXX	30	45 Report	60	1/week	Composite 24-Hr
Total Dissolved Solids	XXX	Daily Max	XXX	XXX	Daily Max	XXX	1/quarter	Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	xxx	xxx	xxx	200 Geo Mean	xxx	1000	1/week	Grab
UV Intensity (µw/cm <sup>2</sup> )	xxx	XXX	Report	XXX	XXX	xxx	1/day	Measured

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

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) <sup>(1)</sup>		Concentrat	Minimum <sup>(2)</sup>	Required		
Farameter	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
								24-Hr
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/week	Composite
Ammonia								24-Hr
Nov 1 - Apr 30	31	XXX	XXX	7.5	XXX	15	1/week	Composite
Ammonia								24-Hr
May 1 - Oct 31	10	XXX	XXX	2.5	XXX	5	1/week	Composite
Total Phosphorus								24-Hr
Nov 1 - Apr 30	8.2	XXX	XXX	2.0	XXX	4	1/week	Composite
Total Phosphorus								24-Hr
May 1 - Oct 31	4.1	XXX	XXX	1.0	XXX	2	1/week	Composite
		0.23			0.056			24-Hr
Total Copper	0.12	Daily Max	XXX	0.028	Daily Max	0.07	1/month	Composite