

Southeast Regional Office CLEAN WATER PROGRAM

Application Type

Amendment,
Major

Facility Type

Municipal

Major

Major

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0024058

 APS ID
 1005294

 Authorization ID
 1294697

Applicant Name	Kennett Square Borough Chester County	Facility Name	Kennett Square Borough WWTF
Applicant Address	120 Marshall Street	Facility Address	650 W South Street
	Kennett Square, PA 19348-3108	_	Kennett Square, PA 19348-2442
Applicant Contact	Joseph Scalise	Facility Contact	Randy Behmke
Applicant Phone	(610) 444-6020	Facility Phone	(610) 444-6020
Client ID	65288	Site ID	451897
Ch 94 Load Status	Existing Organic Overload	Municipality	Kennett Square Borough
Connection Status	Self Imposed Connection Prohibition	County	Chester
Date Application Rece	eived October 21, 2019	EPA Waived?	No
Date Application Acce	epted	If No, Reason	Major Facility

Summary of Review

The applicant has submitted an amendment for their NPDES permit to discharge treated sewage to West Branch Red Clay Creek.

Their current permit has a Total Nitrogen (TN) limits effective November 1, 2019 (ave. mo. 91.8 lbs/day). Applicant requests revision of the TN compliance date to end of May of 2020 due to construction delays. The on-site construction began in April 1, 2019. The anticipated construction activities associated with this project include retrofitting existing unused primary clarifier tanks into anoxic treatment tanks, upgrading the oxidation ditches with new aeration impellers and internal mixed Liquor Recycling Pumps, VFDs, valves, flow meters, probs, analyzers and other appurtenances along with the rerouting of piping within the plant to meet the new effluent requirements for Total Nitrogen by Biological Nutrient Removal.

Act 14 Notifications: Chester County Planning Commission was notified about this amendment submittal on 10/02/19.

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.

Approve	Deny	Signatures	Date
X		Begay Omuralieva / Environmental Engineering Specialist /s/	November 12, 2019
		2 - Say Children and American Englished in green and the	
X			
		Pravin C. Patel, P.E. / Environmental Engineer Manager /s/	November 12, 2019

Discharge, Receiving Waters and Water	Supply Information
Outfall No. 001	Design Flow (MGD) <u>1.1</u>
Latitude 39° 50' 6.15"	Longitude75° 43' 29.36"
Quad Name	Quad Code
Wastewater Description: Sewage Ef	uent from Borough of Kenneth Square WWTP
West Branch Red	
· · · · · · · · · · · · · · · · · · ·	Stream Code 00391
NHD Com ID <u>26092318</u>	RMI Violat (afa/asi2)
Drainage Area	
Q ₇₋₁₀ Flow (cfs)	
Matarahad Na O I	Slope (ft/ft) Charter 03 Class TSE ME
·	Chapter 93 Class. TSF, MF
-	Existing Use Qualifier
Exceptions to Use	Exceptions to Criteria
Assessment Status Impaired	INDICUMENT DOLVELII ODINATED DIDUENVI C (DCDC) CII TATIONI
• • • • • • • • • • • • • • • • • • • •	NRICHMENT, POLYCHLORINATED BIPHENYLS (PCBS), SILTATION
Source(s) of Impairment AGRICULT	JRE, AGRICULTURE, SOURCE UNKNOWN Christina River Basin, Red Clay Creek
TMDL Status Final	Name Watershed
Background/Ambient Data	Data Source
pH (SU)	
Temperature (°F)	
Hardness (mg/L)	
Other:	
Nearest Downstream Public Water Sup	y Intake
PWS Waters	Flow at Intake (cfs)
PWS RMI	Distance from Outfall (mi)

Changes Since Last Permit Issuance:

Other Comments:

Discharge, Receiving Wat	ers and Water Supply Information	n	
Outfall No. 002			
Latitude 39º 50' 16	5.14"	Longitude	-75º 43' 27.02"
Quad Name		Quad Code	
Wastewater Description:	Stormwater		
	named Tributary to West Branch I Clay Creek (TSF, MF)	Stream Code	
	92290	RMI	
Drainage Area	02200	Yield (cfs/mi²)	
Q ₇₋₁₀ Flow (cfs)		Q ₇₋₁₀ Basis	
Elevation (ft)		Slope (ft/ft)	
` '			TOE ME
	-	Chapter 93 Class.	TSF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	ORGANIC ENRICHMENT, POL	YCHLORINATED BIPHEN	IYLS (PCBS), SILTATION
Source(s) of Impairment	AGRICULTURE, AGRICULTUR	RE, SOURCE UNKNOWN	-
. , , ,		Christina Riv	er Basin,Red Clay Creek
TMDL Status	Final, Final	Name Watershed	

Changes Since Last Permit Issuance: none

	Tr	eatment Facility Summary	у	
Γreatment Facility Na	ı me: Kennett Square Boro	ugh WWTP		
WQM Permit No.	Issuance Date			
1518403	08/29/2018			
1503415	08/21/2003			
1599403	09/02/1999			
	,			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Oxidation Ditch	Ultraviolet	1.1
<u> </u>	,			
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal
1.4	3500	Existing Organic Overload	Aerobic Digestion	Landfill

Changes Since Last Permit Issuance: none

Compliance History

DMR Data for Outfall 001 (from October 1, 2018 to September 30, 2019)

Parameter	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18
Flow (MGD)												
Average Monthly	0.665	0.702	0.793	0.862	0.882	0.799	0.944	0.915	0.949	0.961	0.960	0.801
Flow (MGD)												
Daily Maximum	1.120	0.847	1.128	1.171	1.075	0.969	1.447	1.306	1.561	1.558	1.552	1.017
pH (S.U.)												
Instantaneous												
Minimum	7.08	7.32	7.27	7.05	7.22	6.92	6.98	7.17	7.15	7.11	7.13	7.17
pH (S.U.)												
Instantaneous												
Maximum	7.69	7.64	7.61	7.48	7.42	7.48	7.4	7.39	7.47	7.4	7.41	7.43
DO (mg/L)												
Instantaneous												
Minimum	8.0	7.93	7.93	8.4	8.7	9.27	10.14	10.63	10.32	10.08	9.18	8.11
CBOD5 (lbs/day)												
Average Monthly	< 22	< 18	< 20	< 23	< 23	< 23	< 27	< 29	< 24	< 27	< 26	< 22
CBOD5 (lbs/day)												
Weekly Average	< 21	< 19	< 22	< 26	< 30	< 29	< 37	44	< 31	< 40	< 34	< 24
CBOD5 (mg/L)												
Average Monthly	< 4	3	< 3	< 3	< 3	< 3	< 4	< 4	< 3	< 3	< 3	< 3
CBOD5 (mg/L)												
Weekly Average	< 3.9	< 3.1	< 3	< 3.8	< 3	< 4	< 5	6	< 3	< 4	< 4	< 3
BOD5 (lbs/day)												
Influent br/> Average												
Monthly	1780	1546	1560	1858	2043	1882	2401	1670	1927	2579	2669	2290
BOD5 (lbs/day)												
Influent br/> Weekly												
Average	2596	2070	1849	2381	2957	2721	2717	2331	2663	3246	2814	2576
BOD5 (mg/L)												
Influent br/> Average	000	000	0.40	050	000	000	000	0.4.0	0.40	000	000	
Monthly	298	266	240	259	260	286	309	210	246	329	330	333
BOD5 (mg/L)												
Influent br/> Weekly	0.47	044	000	054	004	400	050	000	005	007	0.40	400
Average	347	344	260	354	291	430	350	290	285	337	343	439
TSS (lbs/day)			. 07	. 50	. 45	40	47	. 40	. 40	. 40	. 40	
Average Monthly	< 36	< 32	< 37	< 58	< 45	< 42	< 47	< 49	< 49	< 42	< 46	50

3800-PM-BPNPSM0011 Rev. 10/2014

Permit

Permit No. PA0024058

Influent-to-for-Average	TSS (lbs/day)												
Monthly													
TSS (Bisday)		1158	1152	1317	1375	1823	1521	2201	1799	1947	2623	2136	1494
Influent cbr/s Weekly Average			_	-			-	_		-			-
Average													
TSS (Ingl.) Meekly Average 53 35 47 74 53 61 <61 59 77 <54 59 67		1423	1404	1538	1844	2776	1760	3103	2799	3133	3097	2492	2010
Weekly Average 53 35 47 74 53 61 <61 59 77 <54 59 67													
TSS (mg/L)		53	35	47	74	53	61	< 61	59	77	< 54	59	67
Average Monthly													
Influent	Average Monthly	< 6	< 6	< 6	< 8	< 6	< 6	< 6	< 6	< 6	< 5	< 6	< 7
Monthly	TSS (mg/L)												
TSS (mg/L) Influent TSS (mg/L) CFU/100 ml) CFU/100	Influent Average												
Influent	Monthly	203	199	202	192	235	228	278	225	241	331	257	216
Average 216 248 229 256 344 267 353 348 345 358 278 268 TSS (mg/L) Weekly Average 7.7 6.2 6.2 10.7 7.4 9 < 7 8 < 7 < 6 7 10 Fecal Coliform (CFU/100 ml) Geometric Mean 35 < 23 31 < 20 < 8 < 7 < 2 < 7 < 7 < 2 < 3 < 15 Fecal Coliform (CFU/100 ml) Instantaneous Maximum 120 54 51 41 52 36 15.5 44 56 80 29 34 Total Nitrogen (lbs/day) Average Monthly 100 98 105 124 131 129 144 136 124 139 156 178 Total Nitrogen (mg/L) Average Monthly 19.08 17.07 16.53 17.57 19.61 19.01 16.61 16.9 17.06 19.31 23.35 22 Ammonia (lbs/day) Average Monthly < 6 < 0.09 < 0.9 < 2 < 1 2 < 2 < 2 < 2 < 1 < 0.8 < 0.8 < 1 Ammonia (mg/L) Average Monthly < 1.09 < 0.16 < 0.15 < 0.21 < 0.14 0.29 < 0.23 < 0.28 < 0.15 < 0.10 < 0.15 < 0.20 Total Phosphorus (mg/L) Average Monthly 3 4 5 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) Average Monthly 3 4 5 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9	TSS (mg/L)												
TSS (mg/L) Weekly Average 7.7 6.2 6.2 10.7 7.4 9 < 7 8 < 7 < 6 7 10	Influent Veekly												
Weekly Average		216	248	229	256	344	267	353	348	345	358	278	268
Fecal Coliform (CFU/100 ml) Geometric Mean 35 <23 31 <20 <8 <7 <2 <7 <7 <2 <3 <15													
CFU/100 ml Geometric Mean 35 < 23 31 < 20 < 8 < 7 < 2 < 7 < 7 < 2 < 3 < 15		7.7	6.2	6.2	10.7	7.4	9	< 7	8	< 7	< 6	7	10
Geometric Mean 35 <23 31 <20 <8 <7 <2 <7 <7 <2 <3 <15													
Fecal Coliform (CFU/100 ml) Instantaneous Maximum 120 54 51 41 52 36 15.5 44 56 80 29 34 Total Nitrogen (lbs/day) Average Monthly 100 98 105 124 131 129 144 136 124 139 156 178 Total Nitrogen (mg/L) Average Monthly 19.08 17.07 16.53 17.57 19.61 19.01 16.61 16.9 17.06 19.31 23.35 22 Ammonia (lbs/day) Average Monthly < 6 < 0.09 < 0.9 < 2 < 1 2 < 2 < 2 < 2 < 1 < 0.8 < 0.8 < 1 Ammonia (mg/L) Average Monthly < 1.09 < 0.16 < 0.15 < 0.21 < 0.14 0.29 < 0.23 < 0.28 < 0.15 < 0.10 < 0.15 0.20 Total Phosphorus (lbs/day) Average Monthly 3 4 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.00													
CFU/100 ml Instantaneous Maximum 120 54 51 41 52 36 15.5 44 56 80 29 34 Total Nitrogen (Ibs/day)		35	< 23	31	< 20	< 8	< 7	< 2	< 7	< 7	< 2	< 3	< 15
Instantaneous Maximum 120 54 51 41 52 36 15.5 44 56 80 29 34 Total Nitrogen (lbs/day) Average Monthly 100 98 105 124 131 129 144 136 124 139 156 178 Total Nitrogen (mg/L) Average Monthly 19.08 17.07 16.53 17.57 19.61 19.01 16.61 16.9 17.06 19.31 23.35 22 Ammonia (lbs/day) Average Monthly < 6 < 0.09 < 0.9 < 2 < 1 2 < 2 < 2 < 1 < 0.8 < 0.8 < 1 Ammonia (mg/L) Average Monthly < 1.09 < 0.16 < 0.15 < 0.21 < 0.14 0.29 < 0.23 < 0.28 < 0.15 < 0.10 < 0.15 < 0.20 Total Phosphorus (lbs/day) Average Monthly 3 4 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005													
Maximum													
Total Nitrogen (lbs/day)													
(lbs/day) Average Monthly 100 98 105 124 131 129 144 136 124 139 156 178 Total Nitrogen (mg/L) Average Monthly 19.08 17.07 16.53 17.57 19.61 19.01 16.61 16.9 17.06 19.31 23.35 22 Ammonia (lbs/day) Average Monthly < 6		120	54	51	41	52	36	15.5	44	56	80	29	34
Average Monthly 100 98 105 124 131 129 144 136 124 139 156 178 Total Nitrogen (mg/L) 19.08 17.07 16.53 17.57 19.61 19.01 16.61 16.9 17.06 19.31 23.35 22 Ammonia (lbs/day) Average Monthly < 6													
Total Nitrogen (mg/L) Average Monthly 19.08 17.07 16.53 17.57 19.61 19.01 16.61 16.9 17.06 19.31 23.35 22 Ammonia (lbs/day) Average Monthly < 6 < 0.09 < 0.9 < 2 < 1 2 < 2 < 2 < 1 < 0.8 < 0.8 < 1 Ammonia (mg/L) Average Monthly < 1.09 < 0.16 < 0.15 < 0.21 < 0.14 0.29 < 0.23 < 0.28 < 0.15 < 0.10 < 0.15 0.20 Total Phosphorus (lbs/day) Average Monthly 3 4 5 5 7 4 10 16.61 16.9 17.06 19.31 23.35 22 < 1 < 0.8 < 0.8 < 1 Average Monthly Average Monthly 3 4 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.66 0.9 Total Cadmium (mg/L) Average Monthly < 0.001 < 0.005 < 0.005 < 0.005 Total Copper (mg/L)		400	00	405	404	404	400	444	400	404	400	450	470
Average Monthly 19.08 17.07 16.53 17.57 19.61 19.01 16.61 16.9 17.06 19.31 23.35 22 Ammonia (lbs/day) Average Monthly < 6		100	98	105	124	131	129	144	136	124	139	156	1/8
Ammonia (lbs/day) Average Monthly < 6 < 0.09 < 0.9 < 2 < 1 2 < 2 < 2 < 2 < 1 < 0.8 < 0.8 < 1 Ammonia (mg/L) Average Monthly < 1.09		40.00	47.07	40.50	47.57	40.04	40.04	40.04	40.0	47.00	40.04	00.05	00
Average Monthly < 6 < 0.09 < 0.9 < 2 < 1 2 < 2 < 2 < 2 < 1 < 0.8 < 0.8 < 1 Ammonia (mg/L) Average Monthly < 1.09		19.08	17.07	16.53	17.57	19.61	19.01	16.61	16.9	17.06	19.31	23.35	22
Ammonia (mg/L) Average Monthly < 1.09 < 0.16 < 0.21 < 0.14 0.29 < 0.23 < 0.28 < 0.15 < 0.10 < 0.15 0.20 Total Phosphorus (lbs/day) Average Monthly 3 4 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001		. 6	. 0.00	. 0.0	. 0	. 4	2	. 0		. 4	.00	.00	. 1
Average Monthly < 1.09 < 0.16 < 0.15 < 0.21 < 0.14 0.29 < 0.23 < 0.28 < 0.15 < 0.10 < 0.15 0.20 Total Phosphorus (Ibs/day) 3 4 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001		< 0	< 0.09	< 0.9	< 2	< 1		< 2	< 2	< 1	< 0.8	< 0.8	< 1
Total Phosphorus (lbs/day) Average Monthly 3 4 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001		. 1.00	.016	- 0.15	. 0.21	.011	0.20	. 0.22	10.20	. 0 15	.010	.015	0.20
(lbs/day) Average Monthly 3 4 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001		< 1.09	< 0.16	< 0.15	< 0.21	< 0.14	0.29	< 0.23	< 0.26	< 0.15	< 0.10	< 0.15	0.20
Average Monthly 3 4 5 5 7 4 10 16 10 8 5 6 Total Phosphorus (mg/L) 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001													
Total Phosphorus (mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001		3	4	5	5	7	4	10	16	10	g.	5	6
(mg/L) Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001		<u> </u>	7	3	<u> </u>	,	7	10	10	10		J	U
Average Monthly 0.59 0.77 0.7 0.65 0.84 0.61 1.21 1.97 1.29 1.0 0.6 0.9 Total Cadmium (mg/L) Average Monthly < 0.001													
Total Cadmium (mg/L) Average Monthly < 0.001 < 0.005 < 0.005 < 0.005 < 0.001 < 0.005 < 0.001 < 0.001 < 0.001 < 0.001 < 0.005 < 0.0010 < 0.005 Total Copper (mg/L)		0.59	0.77	0.7	0.65	0.84	0.61	1 21	1 97	1 29	1.0	0.6	0.9
Average Monthly < 0.001 < 0.005 < 0.005 < 0.005 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001		0.00	0.77	0.7	0.00	0.0 4	0.01	1.21	1.07	1.20	1.0	0.0	0.0
Total Copper (mg/L)		< 0.001	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005	< 0.0010	< 0.005
		3 0.00 1	3 0.000	, 0.000	1 0.000	3 0.00 1	1 0.000	1 0.001	3 3.00 1	3 0.00 1	1 0.000	1 0.0010	1 0.000
	Average Monthly	0.007	0.018	0.024	0.022	0.006	0.02	0.006	0.008	0.009	0.015	< 0.014	0.012

3800-PM-BPNPSM0011 Rev. 10/2014

Permit No. PA0024058

Total Phenolics (lbs/day)												
Average Monthly	< 0.05	< 0.06	< 0.06	< 0.07	< 0.07	< 0.07	< 0.09	< 0.09	< 0.07	< 0.07	< 0.07	< 0.08
Total Phenolics (lbs/day)												
Daily Maximum	< 0.05	< 0.06	< 0.07	< 0.07	< 0.07	0.07	< 0.09	0.10	< 0.08	< 0.08	< 0.07	< 0.08
Total Phenolics (mg/L)												
Average Monthly	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.011	< 0.010	< 0.010	< 0.010	< 0.010
Total Phenolics (mg/L)												
Daily Maximum	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.010	0.012	< 0.010	< 0.010	< 0.010	< 0.010
Chronic WET -												
Pimephales Survival												
(TUc)												
Daily Maximum	2.2			2.2			2.2			2.2		
Chronic WET -												
Pimephales Growth												
(TUc)												
Daily Maximum	2.2			2.2			2.2			2.2		

DMR Data for Outfall 002 (from October 1, 2018 to September 30, 2019)

Parameter	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18
pH (S.U.)												
Annual Average										7.17		
CBOD5 (mg/L)												
Annual Average										26		
COD (mg/L)												
Annual Average										< 2		
TSS (mg/L)												
Annual Average										6.8		
Oil and Grease (mg/L)												
Annual Average										< 5		
TKN (mg/L)												
Annual Average										1.2		
Total Phosphorus												
(mg/L)												
Annual Average										0.88		
Dissolved Iron (mg/L)												
Annual Average										0.67		

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: June 1, 2020 through Permit Expiration Date.

			Effluent L	imitations			Monitoring Red	quirements
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	Minimum ⁽²⁾	Required		
Faranielei	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
								24-Hr
Total Nitrogen	91.8	XXX	XXX	10.0	XXX	20.0	2/month	Composite

Compliance Sampling Location: Outfall 001.

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 May 31, 2020.

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	Minimum ⁽²⁾	Required		
Falametei	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
								24-Hr
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	2/month	Composite

Compliance Sampling Location: Outfall 001

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
Parameter	Mass Units	(lbs/day) (1)		Concentrati	ions (mg/L)		Minimum (2)	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	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX	1/day	Grab
CBOD5 Nov 1 - Apr 30	230	365	XXX	25	40	50	2/week	24-Hr Composite
CBOD5 May 1 - Oct 31	152	228	XXX	17	25	33	2/week	24-Hr Composite
BOD5 Influent	Report	Report	XXX	Report	Report	XXX	2/week	24-Hr Composite
TSS Influent	Report	Report	XXX	Report	Report	XXX	2/week	24-Hr Composite
TSS	275	412	XXX	30	45	60	2/week	24-Hr Composite
Fecal Coliform (#/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/week	Grab
Ammonia Nov 1 - Apr 30	55	XXX	XXX	6.0	XXX	12	2/week	24-Hr Composite
Ammonia May 1 - Oct 31	18	XXX	XXX	2.0	XXX	4	2/week	24-Hr Composite
Total Phosphorus Nov 1 - Mar 31	18	XXX	XXX	2.0	XXX	4	2/week	24-Hr Composite
Total Phosphorus Apr 1 - Oct 31	12	XXX	XXX	1.3	XXX	2.6	2/week	24-Hr Composite
Total Cadmium	XXX	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite

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

Parameter		Monitoring Requirements						
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum ⁽²⁾	Required
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
								24-Hr
Total Copper	XXX	XXX	XXX	Report	XXX	XXX	1/month	Composite
		0.42			0.046			24-Hr
Total Phenolics	0.21	Daily Max	XXX	0.023	Daily Max	0.058	2/month	Composite
Chronic WET - Pimephales				2.2				24-Hr
Survival (TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	1/quarter	Composite
Chronic WET - Pimephales				2.2				24-Hr
Growth (TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	1/quarter	Composite

Compliance Sampling Location: Outfall 001

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

Parameter		Effluent Limitations						
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2)	Required
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
pH (S.U.)	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
CBOD5	xxx	XXX	XXX	Report	XXX	XXX	1/year	Grab
COD	xxx	XXX	XXX	Report	XXX	XXX	1/year	Grab
TSS	xxx	XXX	XXX	Report	XXX	XXX	1/year	Grab
Oil and Grease	xxx	XXX	XXX	Report	XXX	XXX	1/year	Grab
TKN	xxx	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Dissolved Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 002