pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0012891**
Facility Type	**Municipal**	APS ID	**1114852**
Major / Minor	**Minor**	Authorization ID	**1487075**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**The Upper Hanover Authority**	Facility Name	**The Upper Hanover Authority Perkiomen WWTP**
Applicant Address	1704 Pillsbury Road	Facility Address	Pillsbury Road
	East Greenville, PA 18041-2215		East Greenville, PA 18041
Applicant Contact	Mark Wood	Facility Contact	Mark Wood
Applicant Phone	(267) 272-9326	Facility Phone	(215) 679-3129
Client ID	73627	Site ID	458836
Ch 94 Load Status		Municipality	Upper Hanover Township
Connection Status		County	Montgomery
Date Application Received	June 3, 2024	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: Renewal and Re-rate

Summary of Review

The applicant requests approval for renewal of a National Pollutant Discharge Elimination System (NPDES) permit to discharge 0.098 MGD of treated wastewater from The Upper Hanover Authority WWTP serving residential and industrial establishment in Upper Hanover Township, Montgomery County to Perkiomen Creek. At the point of discharge, the creek is classified as Trout Stocking Fishery. The creek is located in 3E-Perkiomen Watershed.

On December 1, 2023, permittee also submitted a Re-rate request of The Upper Hanover Authority Perkiomen WWTP from 0.098 mgd to 0.120 mgd hydraulically and 205 lbs/day to 250 lb/day organically. No changes to current equipment/operations are proposed. Re-rate is considered during this renewal. However, applicant is required to submit WQM permit application for paper rerate.

The treatment plant consists of Dissolved Air Floatation (DAF) units for pretreatment of industrial wastewater prior to treating with the remaining sewage waste with Activated Sludge Treatment (AST) plant. The sewage from various collection systems enters in the manhole located at head of the plant. Wastewater then passes through the fine screening and comminutor into pre-equalization tanks, where they mix with pretreated industrial wastewater. Secondary treatment is an activated sludge process that includes nitrogen removal and final clarification. Phosphorous removal is achieved by chemical addition to the biological process. Disinfection is achieved through UV. Liquid sludge is hauled off-site by Potty Queen. Sludge is taken to the Pottstown WWTP in Montgomery County. Treated effluent then discharges into Perkiomen Creek via Outfall 001.

The WWTP receives wastewater from Allentown Refrigeration and Blommer Chocolate Company.

The re-rate is expected to happen in early 2026, therefore the permit will be prepared as a two-tier permit, specifying limits for both the current and proposed flow.

Approve	Deny	Signatures	Date
x		*Vasantha* Vasantha Palakurti / Environmental Engineering Specialist	September 23, 2024
X		*Pravin Patel* Pravin C. Patel, P.E. / Environmental Engineer Manager	11/01/2024

Summary of Review

Based on the new flow 0.120 mgd, water quality modeling was performed to evaluate all effluent limits and monitoring requirements. All effluent limits and monitoring requirements remain same as exiting limits, except for mass loading to reflect increased annual average flow.

E.Coli report only requirement has been added in the permit as per the revised SOP for Clean Water Program Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033.

PFOA, PFOS. PFBS and HFPO-DA have been added to the renewal for quarterly monitoring as per the revised SOP for Clean Water Program Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033.

Total Phosphorus:

The facility is discharging into waterbody that has an US EPA approved Total Maximum Daily Load (TMDL) of nutrients for Green Lane Reservoir. The TMDL is for Total Phosphorus with 0.5 mg/l as a concentration limit with corresponding mass loading based on the approved flow at the time TMDL was developed. The Upper Hanover Authority (UHA) purchased TTT realty facility and the facility were expanded, the mass loading to expanded facility were calculated with expanded flow with TMDL concentration of 0.5 mg/l. (0.5 X8.34X0.098= 0.4 lbs./day). The additional load assigned to the expanded facility (0.4 - 0.037= 0.363 lbs./day) will come from Knoll, Inc. (0.116 lbs./day) and MOS (0.247 lbs./day) The expansion of UHTA plant includes flow allocation from Knoll, Inc.

For expanded flow, we assigned 0.5 mg/l as concentration limits and 0.4 lbs./day mass loading based on a TMDL and above reallocations. By reallocating the load, the total load to the Green Lane Reservoir will remain unchanged.

Point Source	Permit #	Design Flow	TP Conc. Mg/l	WLA lbs./day
TTT Realty (initial)	PA0012891	0.0088	0.5	0.037
Upper Hanover (transferred and expanded)	PA0012891	0.098	0.5	0.4 (In Current permit)

\\Jenny\Green Lane Final_Report\Greenlane_TMDL_final_report_Exec_summary.wpd (state.pa.us)

Table 4-5. Individual Wasteload allocations of total phosphorus for Green Lane Reservoir

Point Source	NPDES permit no.	Design Flow (mgd)	Total Phosphorus concentration (mg/l)	WLA (lbs/day)	WLA (lbs/month)
Main Branch Perkiomen Subwatershed					
Brown Printing	PA0051802	0.0116	0.5	0.048	1.45
East Greenville Filtration	PA0050644	0	0	0	0
Hereford Mobile Home Park	PA0041505	0.125	0.5	0.52	15.63
Knoll, Inc.	PA0011070	0.0279	0.5	0.116	3.49
Mountain Village Mobile Home Park	PA0041491	0.064	0.5	0.27	8
TTT Realty	PA0012891	0.0088	0.5	0.037	1.1
Main Branch Perkiomen subwatershed total					29.7

Summary of Review
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.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.098
Latitude	40Âº 24' 23.07"	Longitude	-75Âº 31' 18.26"
Quad Name		Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Perkiomen Creek (TSF)	Stream Code	01017
NHD Com ID	25971714	RMI	27.79
Drainage Area	36.32	Yield (cfs/mi^2)	7.05
Q_{7-10} Flow (cfs)	0.1	Q_{7-10} Basis	Previous Permit Modeling
Elevation (ft)	308	Slope (ft/ft)	
Watershed No.	3-E	Chapter 93 Class.	TSF
Assessment Status	Not Assessed		
Cause(s) of Impairment	Impaired by organic enrichment/ low dissolved oxygen		
Source(s) of Impairment	Agriculture		
TMDL Status	Final	Name	**Green Lane Reservoir**

Changes Since Last Permit Issuance, permittee requested re-rate of the treatment plant. There were no changes to wastewater characteristics, receiving stream classification, and/or wastewater quantity.

Proposed Treatment Facility Summary

Treatment Facility Name: Perkiomen WWTP

WQM Permit No.	Issuance Date
0993405	07/12/2007

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Activated Sludge with Solids Removal	Ultraviolet	0.120 ultimate

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.120	250		Aerobic Digestion	Other WWTP

Compliance History

DMR Data for Outfall 001 (from July 1, 2023 to June 30, 2024)

Parameter	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23
Flow (GPD) Average Monthly	0.034	0.035	0.045	0.047	0.038	0.049	0.056	0.039	0.038	0.038	0.038	0.038
Flow (GPD) Daily Maximum	0.044	0.049	0.135	0.099	0.042	0.125	0.13	0.059	0.06	0.061	0.052	0.093
pH (S.U.) Instantaneous Minimum	7.02	7.26	7.19	6.82	7.05	6.5	6.81	6.82	6.9	7.10	7.02	7.25
pH (S.U.) Instantaneous Maximum	8.01	7.74	7.77	7.58	8.24	7.82	7.81	7.65	7.8	8.34	8.07	8.03
DO (mg/L) Instantaneous Minimum	5.58	6.22	7.50	7.37	7.86	8.26	6.94	6.47	6.34	6.93	7.23	5.93
DO (mg/L) Average Monthly	7.13	7.5	8.56	8.72	9.07	9.47	8.86	8.23	7.63	8.68	7.69	8.06
CBOD5 (lbs/day) Average Monthly	2	0.7	2	2	2	1	< 1	1	2.0	1.0	3	2
CBOD5 (lbs/day) Influent Average Monthly	108.27	28.5	34	31.65	66.54	32.5	35	46	21.8	31.4	35	24
CBOD5 (lbs/day) Influent Weekly Average	184.65	35	41	35.5	70.69	47	39	52	22.6	34.3	42	28
CBOD5 (lbs/day) Weekly Average	2	0.9	2	2	2	1	2	2	2.0	1.0	4	2
CBOD5 (mg/L) Average Monthly	5.5	3.3	6.40	5.5	6.1	4.4	< 3.5	4.4	6.1	4.3	8.5	5.9
CBOD5 (mg/L) Influent Average Monthly	735	210	200	148.5	350	240	135	277	135	175	194	143
CBOD5 (mg/L) Influent Weekly Average	1230	259	245	152	374	351	153	310	143	187	237	186
CBOD5 (mg/L) Weekly Average	7.3	3.3	7.80	6	6.2	5.3	4.9	5.6	6.6	5.1	10.8	6.8

BOD5 (lbs/day) Influent Average Monthly	119	36	43	55	67	37	39	58	28	43	41	29
BOD5 (lbs/day) Influent Weekly Average	201	37	49	56	71	43	41	68	32	44	44	33
BOD5 (mg/L) Influent Average Monthly	806	269	259	261	350	273	194	353	172	241	227	181
BOD5 (mg/L) Influent Weekly Average	1340	278	294	292	374	321	243	407	203	241	250	219
TSS (lbs/day) Average Monthly	0.9	1	2	< 0.7	1	2	3	2	4.0	< 0.9	2	1
TSS (lbs/day) Influent Average Monthly	21	28	53	32	30	24	38	50	29	42	40	32
TSS (lbs/day) Influent Weekly Average	24	28	62	37	44	36	38	58	36	44	54	33
TSS (lbs/day) Weekly Average	0.9	1	2	1	2	3	4	2	5.0	1.0	4	1
TSS (mg/L) Average Monthly	3	5	6	< 2	4	8	9	5	13	< 4.0	7	4
TSS (mg/L) Influent Average Monthly	150	212	315	152	167	178	185	309	177	233	225	199
TSS (mg/L) Influent Weekly Average	180	212	370	157	263	273	230	348	230	253	307	210
TSS (mg/L) Weekly Average	3	7	6	3	6	10	12	7	16	6.0	11	4
Total Dissolved Solids (lbs/day) Average Monthly	186	144	192	210	271	181	249	225	272	241	257	182
Total Dissolved Solids (lbs/day) Daily Maximum	197	159	205	258	285	222	267	248	286	286	258	198
Total Dissolved Solids (mg/L) Average Monthly	655	635	613	608	909	671	625	727	824	763	752	628
Total Dissolved Solids (mg/L) Daily Maximum	676	675	663	673	962	782	727	763	858	811	755	741

Fecal Coliform (CFU/100 ml) Geometric Mean	< 15	24	< 7	< 2	42	< 14	< 2	< 11	< 2	< 5.0	< 15	< 2
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	108	33	26	< 2	220	98	< 2	62	< 2	11.0	108	< 2
UV Transmittance (%) Daily Minimum	100	100	100	100	100	100	100	100	100	100	100	100
Total Nitrogen (lbs/day) Average Monthly	2	< 4	< 3	< 4	< 234	< 7	< 11	9	9.0	< 7.0	7	< 3
Total Nitrogen (mg/L) Average Monthly	7.69	< 15.7	< 11.20	< 13.2	< 27.04	< 26.6	< 27.31	27.97	27.86	< 22.2	21.59	< 11.79
Ammonia (lbs/day) Average Monthly	0.006	< 0.005	< 0.006	< 0.007	< 0.007	0.06	< 0.01	< 0.009	< 0.007	< 0.006	< 0.007	< 0.006
Ammonia (mg/L) Average Monthly	0.02	< 0.02	< 0.02	< 0.02	< 0.03	0.2	< 0.03	< 0.03	< 0.02	< 0.02	< 0.02	< 0.02
Total Phosphorus (lbs/day) Average Monthly	0.03	0.03	0.04	0.04	0.04	0.05	0.08	0.06	0.1	0.03	0.05	0.03
Total Phosphorus (mg/L) Average Monthly	0.1	0.1	0.10	0.1	0.1	0.2	0.2	0.2	0.3	0.1	0.2	0.1

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .098
Latitude 40º 24' 22.32" **Longitude** -75º 31' 17.88"
Wastewater Description: 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
$CBOD_5$	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	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

Based on the proposed flow of 0.12 MGD and the reported data entered in Toxic Management Spreadsheet, no parameters were shown as concern. Therefore, no changes are proposed to the existing limits or monitoring requirements.

Conventional Parameters

WQM-7 modeling was performed with the new flow and there were no changes proposed. $CBOD_5$, NH_3-N, Dissolved Oxygen limits are carried over from previous permits.

Total Nitrogen

Reporting for total nitrogen as recommended by SOP is carried over to this permit renewal.

E.Coli

E.coli report only requirement has been added in the permit as per the revised SOP for Clean Water Program Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033.

PFOA, PFOS. PFBS and HFPO-DA

PFOA, PFOS. PFBS and HFPO-DA have been added to the renewal for quarterly monitoring as per the revised SOP for Clean Water Program Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033.

The permittee may discontinue monitoring for PFOA, PFOS, HFPO-DA, and PFBS if the results in 4 consecutive monitoring periods indicate non-detect results at or below Quantitation Limits of 4.0 ng/L for PFOA, 3.7 ng/L for PFOS, 3.5 ng/L for PFBS and 6.4 ng/L for HFPO-DA.

POLLUTANT GROUP 1 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
Perfluorooctanoic acid (PFOA) (µg/L)	0.0059	0.0000022	0.0052	0.0000015	0.0052	0.0000015	3	0	0.0018	EPA 537
Perfluorooctanesulfonic acid (PFOS) (µg/L)	0.0021	0.00000071	0.0020	0.00000055	0.0020	0.00000055	3	0	0.0018	EPA 537
Perfluorobutanesulfonic acid (PFBS) (µg/L)	0.0063	0.0000017	<0.0049	<0.0000011	<0.0049	<0.0000011	3	1	0.0018	EPA 537
Hexafluoropropylene oxide dimer acid (HFPO-DA) (µg/L)	<0.0018	<0.00000068	<0.0018	<0.00000049	<0.0018	<0.00000049	3	3	0.0018	EPA 537

Phosphorus

The outfall of the WWTP is located on Perkiomen Creek, upstream of Green Lane Reservoir. In March 2003, USEPA approved a Total Maximum Daily Load (TMDL) of nutrients for Green Lane Reservoir. The TMDL is accomplished by requiring all point sources in the watershed to achieve effluent limitations of 0.5 mg/l total phosphorus and reductions in nonpoint source total phosphorus contributions from cropland, hay/pasture land, septic systems, stream bank areas, transitional lands, and low and high intensity development.

The Waste Load Allocation (WLA) was updated in 2002 to 0.4 lbs/day. However, during this renewal, it has been noted that this value does not align with the originally assigned WLA of 0.037 lbs/day. For this renewal period, the WLA of 0.4 lbs/day will be maintained at a flow rate of 0.098 MGD. When the flow increases to 0.12 MGD, the additional load assigned to the expanded facility (0.4 -0.037= 0.363 lbs./day) will come from Knoll, Inc. (0.116 lbs./day) and MOS (0.247 lbs./day) The expansion of UHTA plant includes flow allocation from Knoll, Inc.

For expanded flow, we assigned 0.5 mg/l as concentration limits and 0.4 lbs./day mass loading based on a TMDL and above reallocations. By reallocating the load, the total load to the Green Lane Reservoir will remain unchanged.

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" (386-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Startup of New or Upgraded Facilities (January 1, 2026) through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (GPD)	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
CBOD5	25	37.5	XXX	25.0	40.0	50	2/month	24-Hr Composite
CBOD5 Raw Sewage Influent	Report	Report	XXX	Report	Report	XXX	2/month	24-Hr Composite
BOD5 Raw Sewage Influent	Report	Report	XXX	Report	Report	XXX	2/month	24-Hr Composite
TSS	30	45	XXX	30.0	45.0	60	2/month	24-Hr Composite
TSS Raw Sewage Influent	Report	Report	XXX	Report	Report	XXX	2/month	24-Hr Composite
Total Dissolved Solids	1001	1501.5 Daily Max	XXX	1000.0	2000.0 Daily Max	2500	2/month	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
UV Transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured

Outfall 001, Continued (from Startup of New or Upgraded Facilities through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
Ammonia Nov 1 - Apr 30	15	XXX	XXX	15.0	XXX	30	2/month	24-Hr Composite
Ammonia May 1 - Oct 31	5	XXX	XXX	5.0	XXX	10	2/month	24-Hr Composite
Total Phosphorus	0.4	XXX	XXX	0.5	XXX	1	2/month	24-Hr Composite
PFOA (ug/L)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
PFOS (ug/L)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
PFBS (ug/L)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
HFPO-DA (ug/L)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab

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" (386-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Startup of New or Upgraded Facilities (January 1, 2026).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (GPD)	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
CBOD5	20	32	XXX	25	40	50	2/month	24-Hr Composite
CBOD5 Raw Sewage Influent	Report	Report	XXX	Report	Report	XXX	2/month	24-Hr Composite
BOD5 Raw Sewage Influent	Report	Report	XXX	Report	Report	XXX	2/month	24-Hr Composite
TSS Raw Sewage Influent	Report	Report	XXX	Report	Report	XXX	2/month	24-Hr Composite
TSS	25	37	XXX	30	45	60	2/month	24-Hr Composite
Total Dissolved Solids	817	1635 Daily Max	XXX	1000	2000 Daily Max	2500	2/month	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
UV Transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite

Outfall 001, Continued (from Permit Effective Date through Startup of New or Upgraded Facilities)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Ammonia Nov 1 - Apr 30	12.0	XXX	XXX	15.0	XXX	30	2/month	24-Hr Composite
Ammonia May 1 - Oct 31	4.0	XXX	XXX	5.0	XXX	10	2/month	24-Hr Composite
Total Phosphorus	0.4	XXX	XXX	0.5	XXX	1	2/month	24-Hr Composite
PFOA (ug/L)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
PFOS (ug/L)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
PFBS (ug/L)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
HFPO-DA (ug/L)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab

pennsylvania

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
03E	1017	PERKIOMEN 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)
27.790	Upper Hanover	PA0012891	0.120	CBOD5	25		
				NH3-N	15	30	
				Dissolved Oxygen			5

TMS PA0012891.pdf

06.27.2024_TUHA_Perkiomen-WWTP_Pc

WQM Upper Hanover.pdf

Approve	Deny	Signatures	Date
x		*Vasantha* Vasantha Palakurti / Environmental Engineering Specialist	September 23, 2024
X		*Pravin Patel* Pravin C. Patel, P.E. / Environmental Engineer Manager	11/01/2024