

Application Type Renewal
 Facility Type Municipal
 Major / Minor Major

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0026182
 APS ID 1154904
 Authorization ID 1556676

Applicant and Facility Information

Applicant Name	<u>Lansdale Borough</u>	Facility Name	<u>Lansdale Borough STP</u>
Applicant Address	<u>One Vine Street</u> <u>Lansdale, PA 19446-3601</u>	Facility Address	<u>652 W 9th Street</u> <u>Lansdale, PA 19446-1867</u>
Applicant Contact	<u>Greg Rapp</u>	Facility Contact	<u>Greg Rapp</u>
Applicant Phone	<u>(215) 361-8362</u>	Facility Phone	<u>(215) 361-8362</u>
Client ID	<u>52157</u>	Site ID	<u>256733</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Lansdale Borough</u>
Connection Status	<u>No Limitations</u>	County	<u>Montgomery</u>
Date Application Received	<u>January 27, 2026</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u></u>	If No, Reason	<u>Major Facility</u>
Purpose of Application	<u>Permit Renewal</u>		

Summary of Review

The applicant requests renewal of an NPDES permit to discharge an annual average flow of 3.2 mgd and a maximum monthly flow of 4.5 mgd of treated sewage to an unnamed tributary (02889) to the West Branch Neshaminy Creek.

The treatment plant consists of bar screens, aerated grit chamber, in-line equalization basin, off-line storage basins, swirl concentrator, aeration tanks, secondary clarifiers, phostrip system, nitrification towers, nitrification clarifiers, denitrification clarifiers, alum and ferric feed systems, chlorination/de-chlorination facilities and UV disinfection.

Sodium hypochlorite and sodium bisulfite chemical feed systems are still maintained at the plant as backup disinfection and dechlorination facilities. Sodium hypochlorite is also still utilized to disinfect all discharges from the facility's permitted CSOs.

No major capital improvements anticipated at this time.

The following municipalities are contributing wastewaters to the plant: Borough of Lansdale, Hatfield Township, Montgomery Township, Upper Gwynedd Township.

Sludge use and disposal description and location(s): The Borough mixes all waste sludge produced by the STP with lime, utilizes gravity thickening to further concentrate the solids and then hauls the concentrated liquid sludge to local treatment plants where the sludge is processed and incinerated.

The following wastewater chemicals are used at the facility: Polymer (Phosphorus Removal), Syrup (Carbon source for nutrient removal), Polyaluminum Chloride (Flocculant)

Approve	Deny	Signatures	Date
X		<i>Sara Abraham</i> Sara Reji Abraham, E.I.T. / Project Manager	April 13, 2026
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	04/13/2026

Summary of Review

The following industrial users are connected to the sewer system:

1. Clemens Cleaners
2. Crystal, Inc.-PMC
3. Handelok Bag Co.
4. J.W. Rex Company
5. Merck Sharp & Dohme Corp.

Since the facility is permitted for a design flow of less than 5-mgd, it is not required to develop or implement a federal approved pre-treatment program.

There are two permitted combined sewer overflow outfalls for this facility. Outfall 002 is located at the treatment plant headworks, provides grit and solid removal by a swirl concentrator and provides disinfection by chlorine addition, whenever there is a discharge. Outfall 003 is located at the Ridge Street Pump Station, providing disinfection by hypochlorite addition whenever there is a discharge. The application listed no CSO events in the past year. No dry weather or wet weather events are reported.

The permittee submitted a "Long Term Combined Sewer Overflow Control Plan" (LTCP) dated March 1998, which was approved by the Department on July 28, 2000. A minor change to the LTCP was submitted to the Department on December 29, 2000. A "Long Term CSO Plan Update" was submitted to the Department on December 13, 2011 which was approved in 2012. The permittee shall continue to implement the submitted plans and updated plans, as necessary.

Currently the Borough has an effective CSO monitoring program in place. As part of the long term control efforts, the Borough is continuing its current CSO monitoring program as follows: Part A of the NPDES permit requires monitoring for flow, pH, TRC, CBOD5, TSS, Fecal Coliform, Ammonia Nitrogen and E. Coli at Borough's WWTP CSO Outfall No. 002. Ridge Street Pumping Station CSO Outfall 003 is required to be monitored for flow, pH, TRC, Fecal Coliform and E. Coli.

Instream sampling and analysis are also part of Borough's CSO post-construction compliance monitoring (PCCM). Borough collects grab samples from the UNT to the West Branch Neshaminy Creek which receives discharges from the CSO Outfall 002. During overflow events, grab samples are collected from this UNT at two locations; (i) at the Eighth Street Bridge which is approximately 650 ft upstream of the overflow outfall and (ii) at the Schwab Road Bridge located approximately 1000 ft downstream of the overflow outfall. Also, during overflow events Borough collects grab samples from the UNT to the West Branch Neshaminy Creek which receives discharges from the CSO Outfall 003. Grab samples are collected from this UNT at three locations: (i) at the drainage culvert which is approximately 20 ft upstream of the overflow outfall (ii) the UNT from Line Street area which converges with the UNT which converges with the UNT which receives discharges from CSO Outfall 003 and (iii) at the Hospital Bridge which is approximately 1100 ft downstream of the overflow outfall.

An annual summary of the monitoring results for these locations needs to be included in the Borough's Chapter 94 Report which is submitted to DEP each year.

High flow operating procedures are followed to maximize the flow through the plant and maximize storage capacity. The plant is designed to fully treat 6 mgd during high flow conditions and an additional 2 mgd is partially treated. After the treatment and storage capacity of the facility are exceeded, overflow may be discharged via Outfall 002.

The Outfall 004 discharges stormwater from the STP storm sewer system as well as from upstream storm sewers located in the Borough and not part of the STP property.

A TMDL for Neshaminy Creek Watershed was finalized on April 9, 2003 which was revised on December 2003. The Neshaminy Creek is located in state watershed 2-F, in Bucks and Montgomery Counties. It has approximately 418.3 miles of streams. Since 1996, 203.3 miles of these streams have been included on Pennsylvania's 303(d) list of streams having aquatic life use impairments. The watershed as a whole is very much a point source-dominated system. On an annual basis, the municipal wastewater treatment plants in the watershed contribute about 25% of the total phosphorus load. During critical low-flow periods, effluent discharges comprise over 90% of the total stream flow in many reaches. Upland erosion from developing areas and agriculture, and streambank erosion are other major sources of phosphorus, as well as sediment. However, in September 6, 2007, the nutrients portion of the TMDL was withdrawn by PADEP and approved by USEPA on January 31, 2008. No sediment WLA was assigned for this facility other than urban BMPs.

Summary of Review

DRBC Docket No. D-1996-045 CP-4 was approved for this facility on March 10, 2021.

Based on the review of the eDMRs, the discharge is in compliance with the permit requirements most of the time. No violations were noted in the December 2025 inspection report. No comments received from Operations Section.

Influent monitoring for CBOD5, TSS and BOD5 are continued in the draft permit to check compliance with the 85% removal requirement and Chapter 94 requirement. This requirement is consistent with other similar dischargers in the area.

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:

Montgomery County - January 27, 2026

Permit Conditions:

- A. No Stormwater to Sewers
- B. Acquire Necessary Property Rights
- C. Proper Sludge Disposal
- D. Chlorine Optimization
- E. Small Stream Discharge
- F. Operator Notification
- G. Fecal Coliform Reporting
- H. Combined Sewer Overflows
- I. Solids Management
- J. WET Requirement
- K. TRC Reporting
- L. Stormwater Outfalls Requirement

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>3.2</u>
Latitude	<u>40° 15' 33.85"</u>	Longitude	<u>-75° 17' 20.55"</u>
Quad Name	<u>Telford</u>	Quad Code	<u>7-22-2</u>
Wastewater Description: <u>Treated Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to West Branch Neshaminy Creek (WWF, MF)</u>	Stream Code	<u>02889</u>
NHD Com ID	<u>25484806</u>	RMI	<u>1.1</u>
Drainage Area	<u>1.15</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.115</u>	Q ₇₋₁₀ Basis	<u>*</u>
Elevation (ft)	<u>300</u>		
Watershed No.	<u>2-F</u>	Chapter 93 Class.	<u>WWF, MF</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>nutrients</u>		
Source(s) of Impairment	<u>municipal point source discharges</u>		
TMDL Status	<u>withdrawn</u>	Name	<u>Neshaminy Creek</u>
Nearest Downstream Public Water Supply Intake	<u>Aqua PA</u>		
PWS Waters	<u>Neshaminy Creek</u>		

*USGS streamstats was used to delineate the drainage area at the point of discharge. Based on a drainage area of 1.15 mi², the Q₇₋₁₀ flow is estimated to be 0.115 cfs. This information is from the previous fact sheet.

Treatment Facility Summary				
Treatment Facility Name: Lansdale Borough STP				
WQM Permit No.	Issuance Date			
4696413 A-2	May 9, 2014			
4696413 A-3	August 3, 2021			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Ultraviolet	3.2
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
4.5	6530	Not Overloaded	Gravity Thickening	Other WWTP

Compliance History

DMR Data for Outfall 001 (from January 1, 2025 to December 31, 2025)

Parameter	DEC-25	NOV-25	OCT-25	SEP-25	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25
Flow (MGD) Average Monthly	2.485	2.249	2.05	2.151	2.296	2.969	2.939	3.314	2.937	2.496	2.966	2.299
Flow (MGD) Daily Maximum	7.369	2.69	5.236	3.579	5.102	5.882	4.623	10.401	7.575	3.549	6.803	2.946
pH (S.U.) Instantaneous Minimum	6.5	6.5	6.5	6.9	7.0	7.1	7.0	6.8	6.7	6.4	6.5	6.5
pH (S.U.) Instantaneous Maximum	7.1	7.1	7.3	7.3	7.4	7.5	7.4	7.3	7.2	7.1	7.1	7.2
DO (mg/L) Instantaneous Minimum	7.4	7.5	7.1	6.7	6.2	6.4	7.2	6.1	7.3	8.0	7.4	8.2
TRC (mg/L) Average Monthly	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
TRC (mg/L) Instantaneous Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
CBOD5 (lbs/day) Average Monthly	93	68	63	49	98	78	78	98	93	84	157	100
CBOD5 (lbs/day) Raw Sewage Influent Average Monthly	3494	3035	3108	3165	3612	4693	2933	2479	3238	3069	3687	3926
CBOD5 (lbs/day) Weekly Average	130	85	81	99	261	108	120	121	99	97	225	149
CBOD5 (mg/L) Average Monthly	5	4.0	4	3	4	3	3	5	4	4	6	5
CBOD5 (mg/L) Raw Sewage Influent Average Monthly	200.6	172.4	205.6	187.5	177.9	191.9	118.1	127.5	150	158	150.1	200.2
CBOD5 (mg/L) Weekly Average	6	5.0	5	4	8	4	4	7	7	5	7	7

**NPDES Permit Fact Sheet
Lansdale Borough STP**

NPDES Permit No. PA0026182

BOD5 (lbs/day) Raw Sewage Influent Average Monthly	3778	3171	3224	3422	3541	4659	3300	2784	4087	3836	4302	4440
BOD5 (mg/L) Raw Sewage Influent Average Monthly	217.9	179.9	215.8	204.3	174.6	194.6	132.4	143.4	187.5	195.6	175.8	229.3
TSS (lbs/day) Average Monthly	166	121	82	59	103	123	190	329	174	102	254	163
TSS (lbs/day) Raw Sewage Influent Average Monthly	3416	2760	5044	3904	3612	4140	4107	2174	3933	3825	3867	4272
TSS (lbs/day) Weekly Average	245	84	129	148	208	209	381	494	225	186	356	225
TSS (mg/L) Average Monthly	8.7	4.6	5.1	3.0	4.5	4.7	7.9	13.7	8.9	4.8	9.4	8.0
TSS (mg/L) Raw Sewage Influent Average Monthly	189	158	350	220	177	161	160	101	194	188	156	221
TSS (mg/L) Weekly Average	15.4	6.0	6.5	5.7	7.2	8.2	13.9	15.9	14.8	7.7	10.8	10.0
Total Dissolved Solids (lbs/day) Average Quarterly	5044			20673			13352			20254		
Total Dissolved Solids (mg/L) Average Quarterly	350.0			826.0			586.0			984.0		
Fecal Coliform (No./100 ml) Geometric Mean	< 3	8	16	18	20	34	19	17	4	8	5	13
Fecal Coliform (No./100 ml) Instantaneous Maximum	6.3	12.2	37.9	43.2	86	436	36.8	67	10.3	20.1	10.8	40.4
E. Coli (No./100 ml) Instantaneous Maximum	110.6	206	920.8	235.9	517.2	> 2419.6	461.1	> 2419.6	52	105	770.1	141.4
Nitrate-Nitrite (lbs/day) Average Monthly	262	127	105	142	139	179	217	296	146	144	170	270
Nitrate-Nitrite (mg/L) Average Monthly	16.7	6.6	7.3	8.0	7.4	7.1	8.7	12.3	6.4	8.1	4.4	13.1

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Total Nitrogen (lbs/day) Average Monthly	323	179	157	332	167	240	351	331	180	189	363	327
Total Nitrogen (mg/L) Average Monthly	20.6	9.31	10.9	11.12	10.13	9.59	15.03	13.78	7.9	10.6	9.38	15.89
Ammonia (lbs/day) Average Monthly	26	2	10	14	6	11	8	5	7	3	70	28
Ammonia (mg/L) Average Monthly	1.1	0.1	0.7	0.5	0.3	0.4	0.3	0.2	0.4	0.18	3.0	1.5
TKN (lbs/day) Average Monthly	61	36	39	180	33	50	59	36	34	44	193	57
TKN (mg/L) Average Monthly	3.91	1.88	2.69	6.02	2.03	1.99	2.53	1.48	1.5	2.5	4.98	2.79
Total Phosphorus (lbs/day) Average Monthly	21	11	9	9	8	16	19	20	16	18	28	18
Total Phosphorus (mg/L) Average Monthly	1.13	0.58	0.59	0.56	0.45	0.63	0.79	0.86	0.73	0.82	1.04	0.86
Total Boron (mg/L) Average Quarterly	0.1			0.08			0.07			0.09		
Total Copper (lbs/day) Average Monthly	0.20	< 0.08	0.20	0.09	0.20	0.20	0.10	0.50	0.20	0.10	0.40	0.20
Total Copper (lbs/day) Daily Maximum	0.20	0.10	0.20	0.09	0.20	0.20	0.10	0.50	0.20	0.10	0.40	0.20
Total Copper (mg/L) Average Monthly	0.013	< 0.004	0.012	0.003	0.011	0.009	0.006	0.020	0.007	0.008	0.010	0.012
Total Copper (mg/L) Daily Maximum	0.013	0.005	0.012	0.003	0.011	0.009	0.006	0.020	0.007	0.008	0.010	0.012
Free Cyanide (mg/L) Average Quarterly	< 0.005			< 0.005			< 0.005			< 0.005		
Dissolved Iron (lbs/day) Average Monthly	1.00	1.00	0.04	3.00	0.60	1.00	0.50	0.60	< 0.20	0.20	1.00	0.90
Dissolved Iron (lbs/day) Daily Maximum	1.00	1.00	0.04	3.00	0.60	1.00	0.50	0.60	< 0.20	0.20	1.00	0.90
Dissolved Iron (mg/L) Average Monthly	0.07	0.054	0.03	0.103	0.039	0.041	0.022	0.023	< 0.01	0.011	0.029	0.044
Dissolved Iron (mg/L) Daily Maximum	0.07	0.062	0.03	0.103	0.039	0.041	0.022	0.023	< 0.01	0.011	0.029	0.044
Total Iron (lbs/day) Average Monthly	2.00	1.00	< 1.00	3.00	2.00	3.00	2.00	4.00	< 2.00	< 4.00	4.00	2.00

**NPDES Permit Fact Sheet
Lansdale Borough STP**

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Total Iron (lbs/day) Daily Maximum	2.00	1.00	< 1.00	3.00	2.00	3.00	2.00	4.00	< 2.00	< 4.00	4.00	2.00
Total Iron (mg/L) Average Monthly	0.117	0.072	< 0.10	0.111	0.115	0.10	0.10	0.164	< 0.10	< 0.20	0.102	< 0.10
Total Iron (mg/L) Daily Maximum	0.117	0.076	< 0.10	0.111	0.115	0.10	0.10	0.164	< 0.10	< 0.20	0.102	< 0.10
Total Lead (mg/L) Average Quarterly	< 0.001			< 0.001			< 0.001			< 0.001		
Total Zinc (mg/L) Average Quarterly	< 0.01			0.052			0.024			0.056		
Dichlorobromo- methane (lbs/day) Average Monthly	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Dichlorobromo- methane (lbs/day) Daily Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Dichlorobromo- methane (mg/L) Average Monthly	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Dichlorobromo- methane (mg/L) Daily Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Chloroform (lbs/day) Average Monthly	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Chloroform (lbs/day) Daily Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Chloroform (mg/L) Average Monthly	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Chloroform (mg/L) Daily Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Total Hardness (mg/L) Average Quarterly	124.0			126			122			218.0		
Chronic WET - Ceriodaphnia Survival (TUc) Daily Maximum	GG			1.02			GG			GG		
Chronic WET - Ceriodaphnia Reproduction (TUc) Daily Maximum	GG			1.02			GG			GG		
Chronic WET - Pimephales Survival (TUc) Daily Maximum	GG			1.02			GG			GG		

**NPDES Permit Fact Sheet
Lansdale Borough STP**

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Chronic WET - Pimephales Growth (TUc) Daily Maximum	GG			1.02			GG			GG		
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Compliance History

Effluent Violations for Outfall 001, from: February 1, 2025 To: December 31, 2025

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Total Copper	05/31/25	Avg Mo	0.020	mg/L	.018	mg/L

Development of Effluent Limitations

Outfall No. 001 Design Flow (MGD) 3.2
 Latitude 40° 15' 33.78" Longitude -75° 17' 20.45"
 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
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)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	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

The following limitations were determined:

Parameters	Monthly Ave. Conc (mg/l)	Weekly Ave Conc. (mg/l)	Inst. Max. (mg/l)	Basis
CBOD ₅ (5/1 to 10/31)	11	17	22	WQM 7.0 / Existing*
CBOD ₅ (11/1 to 4/30)	22	33	44	Seasonal / Existing*
Dissolved Oxygen			6.0 (Inst.Min.)	WQM 7.0 / Existing*
Total Suspended Solids	30	45	60	Existing / DRBC
TDS	1000		1500	Existing / DRBC
NH ₃ –N (05/01 to 10/31)	1.5		3	WQM 7.0 / Existing*
NH ₃ –N (11/1 to 4/30)	4.5		9	Seasonal/ Existing*
Nitrate-Nitrite as N (07/01 to 10/31)	9.5		19	Existing**
Nitrate-Nitrite as N (11/01 to 6/30)	Report			Existing**
TKN	Report			Existing**
Total N	Report			Existing**
Total P (4/1 to 10/31)	0.93		1.86	Existing***
Total P (11/1 to 3/31)	1.86		3.72	Existing***

Total Residual Chlorine	0.013		0.043	Existing****
UV Transmittance (%)			Report (Daily Minimum)	Existing / SOP
Fecal Coliform	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

*See the attached WQM 7.0 report for reference.

**The existing permit includes a nitrate-nitrite limit of 9.5 mg/l effective July through October. The nitrate-nitrite limit is required for the protection of the public water supply (PWS) use of Neshaminy Creek during the critical period of July through October. The limit was originally based on basin-wide nitrogen (ammonia and nitrite-nitrate) limit of 11 mg/l during the critical period. Since the ammonia limit is 1.5 mg/l, the nitrate-nitrite limit is 9.5 mg/l. The permit includes additional monitoring for nitrate-nitrite for the period from November through June, and a year-round monitoring limit for TKN. The sum of the TKN and nitrite-nitrate is used to calculate the total nitrogen concentration (from previous fact sheet).

***The Neshaminy Creek watershed is listed in the stream assessment as impaired for nutrients. Therefore, no increase in phosphorus load was allowed until a TMDL was developed to address the impairment. These limits were historically established considering the following factors (from the previous fact sheet):

- The existing phosphorus load from the facility was calculated using at least three years of data for a period when the facility was operating normally (e.g. no plant upsets)
- The permit limit was based on the average phosphorus load for the evaluated period, converted to average monthly limit using an appropriate multiplier. The monthly load limit was converted to a concentration-based limit using a permitted flow of 4.5 mgd.

A summary of the three years of DMR data for 2003-2005 was used for the calculation:

- A monthly average effluent TP mass load of 13.7 lbs/day, with a range of 5.1 to 36.5 lbs/day

Using the statistical methods outlined in EPA's *Technical Support Document for Water Quality-based Toxics Control* and a CV (coefficient of variability) of 0.9, it was determined that the facility's monthly limit is 35 lbs/day. This limit converts to a concentration of 0.93 mg/l. In summary:

Mass Based Limit: $AML = LTA * 2.48$ (99th %, CV = 0.9, n = 4) = 14 lbs/day * 2.48 = 35 lbs/day

Concentration Based Limit: $AML = 35 \text{ lbs/day} \div (8.34 * 4.5 \text{ mgd}) = 0.93 \text{ mg/l}$

The facility serves a combined sewer system. A recommended control measure for treatment facilities serving combined sewer systems includes maximizing flows through the facility. Therefore, the facility's mass loading limits were calculated (historically) using the maximum monthly design flow of 4.5 mgd. This encourages the facility to maximize the flow through the treatment plant under high-flow conditions.

**** Since the chlorine system is used as a backup, Existing TRC limit will stay in the permit and only need to be monitored during the use of chlorine.

A “Reasonable Potential Analysis” determined the following parameters were candidates for limitations & monitoring:

Parameter	Monthly Ave. Conc (ug/l)	Maximum Daily Conc. (ug/l)	Inst. Max. (mg/l)	Recommendation/Basis
Total Aluminum	Report	Report	Report	TMS v.1.4
Total Boron	Report	Report	Report	Existing/TMS v.1.4
Total Cadmium	Report	Report	Report	TMS v.1.4
Total Copper	17.7	27.7	44.3	Existing limit / TMS v.1.4
Free Cyanide	4.09	6.39	10.2	*
Dissolved Iron	Report	Report	Report	Existing Limit is recommended
Total Lead	Report	Report	Report	Existing/TMS v.1.4
Total Zinc	Report	Report	Report	Existing/TMS v.1.4
2,4-Dinitrotoluene	0.061	0.096	0.15	**

*Limit is included in the draft permit. A compliance time of 1 year is also included.

**Only 3 sample results are available. 2 results are reported as non-detect and 1 above the detection limit but still estimated below the DEP recommended TQL. Monitoring is recommended to collect more data. This will be re-evaluated at the next permit renewal.

***See the attached TMS report for reference.

**** RP is not demonstrated, and discharge concentration is < 10% of WQBEL according to TMS report for Total Iron. Therefore, the existing limit is eliminated from the permit.

PFAS:

As part of the permit renewal, facility provided the PFAS sampling results. The reported maximum concentrations for Outfall 001 are 6.8 ng/L for PFOA, 6.3 ng/L for PFOS, 5.3 ng/L for PFBS and <1.7 ng/L for HFPO-DA. Quarterly monitoring for these PFAS parameters is included in the permit for Outfall 001. These are new parameters required to be monitored according to our new guidance.

The following footnote is also included in Part A of the permit according to DEP’s Standard Operating Procedure 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 for all of these parameters 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. When monitoring is discontinued, permittees should enter a No Discharge Indicator (NODI) Code of “GG” on DMRs.

Anti-Backsliding

There is no RP demonstrated for the existing parameters Dichlorobromomethane and Chloroform based on TMS run. Chlorination disinfection system was the source of these parameters. It is replaced by UV disinfection system. Therefore, Dichlorobromomethane and Chloroform are eliminated from the permit. This is justified by the anti-backsliding prohibition exception as stated in 40 CFR 122.44(l)(2)(i)(A).

For Total Iron, RP is not demonstrated and discharge concentration is < 10% of WQBEL. New monitoring data would constitute new information. Therefore, the existing effluent limitations for Total Iron are eliminated from the permit. This is justified by the anti-backsliding prohibition exception as stated in 40 CFR 122.44(l)(2)(i)(B)(1).

Development of Effluent Limitations

Outfall No. 002 **Design Flow (MGD)** 0
Latitude 40° 15' 33.78" **Longitude** -75° 17' 20.45"
Wastewater Description: Combined Sewer Overflow

Monitoring for the existing parameters, flow, pH, TRC, CBOD5, TSS, Fecal Coliform and Ammonia Nitrogen are recommended to continue in the draft permit.

Outfall No. 003 **Design Flow (MGD)** 0
Latitude 40° 14' 49.89" **Longitude** -75° 16' 20.83"
Wastewater Description: Combined Sewer Overflow

Monitoring for the existing parameters flow, pH, TRC and Fecal Coliform are recommended to continue in the draft permit.

Outfall No. 004 **Design Flow (MGD)** 0
Latitude 40° 15' 22.00" **Longitude** -75° 17' 16.00"
Wastewater Description: Stormwater

Monitoring for the existing stormwater parameters pH, CBOD5, COD, TSS, Oil and Grease, Fecal Coliform, TKN, Total Phosphorus, and Dissolved Iron, are recommended to continue in the draft permit.



Whole Effluent Toxicity (WET)

For Outfall 001, **Acute** **Chronic** WET Testing was completed:

- For the permit renewal application (4 tests).
- Quarterly throughout the permit term.
- Quarterly throughout the permit term and a TIE/TRE was conducted.
- Other: Annually

The dilution series used for the tests was: 100%, 98%, 73%, 49%, and 25%. The Target Instream Waste Concentration (TIWC) to be used for analysis of the results is: 98%.

Summary of Four Most Recent Test Results and Evaluation based on TST Spreadsheet

WET Summary and Evaluation					
Facility Name	Lansdale Borough STP				
Permit No.	PA0026182				
Design Flow (MGD)	3.2				
Q ₇₋₁₀ Flow (cfs)	0.115				
PMF _a	1				
PMF _o	1				
		Test Results (Pass/Fail)			
Species	Endpoint	Test Date	Test Date	Test Date	Test Date
Ceriodaphnia	Survival	7/26/22	5/17/23	4/23/24	7/14/25
		PASS	PASS	PASS	PASS
		Test Results (Pass/Fail)			
Species	Endpoint	Test Date	Test Date	Test Date	Test Date
Ceriodaphnia	Reproduction	7/26/22	5/17/23	4/23/24	9/1/25
		PASS	PASS	PASS	PASS
		Test Results (Pass/Fail)			
Species	Endpoint	Test Date	Test Date	Test Date	Test Date
Pimephales	Survival	7/26/22	5/17/23	4/23/24	7/15/25
		PASS	PASS	PASS	PASS
		Test Results (Pass/Fail)			
Species	Endpoint	Test Date	Test Date	Test Date	Test Date
Pimephales	Growth	7/26/22	5/17/23	4/23/24	7/15/25
		PASS	PASS	PASS	PASS
Reasonable Potential?		NO			
Permit Recommendations					
Test Type	Chronic				
TIWC	98 % Effluent				
Dilution Series	25, 49, 73, 98, 100 % Effluent				
Permit Limit	None				
Permit Limit Species					

WET Limits

Has reasonable potential been determined? YES NO

Will WET limits be established in the permit? YES NO

Based on the evaluation and DEP guidance, annual monitoring for Chronic WET is included in the permit using the dilution series 25, 49, 73, 98, 100 % and a TIWC of 98%.

The standard WET condition based on the DEP WET SOP is incorporated in Part C of the permit.

Review shows one endpoint Failure during the permit term for Ceriodaphnia Reproduction (7/14/2025) however, the same species Passed the retest (9/1/2025). We will re-evaluate this at the next permit renewal.

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 Start of Final Period.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Cyanide, Free	XXX	XXX	XXX	Report	XXX	XXX	1/month	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" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Start of Final Period 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	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Cyanide, Free	0.11	0.17	XXX	0.004	0.006	0.01	1/month	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" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date 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	Daily Maximum	Instant. Maximum		
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
Dissolved Oxygen	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.02	XXX	0.043	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	826	1238	XXX	22	33 Wkly Avg	44	2/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	413	638	XXX	11	17 Wkly Avg	22	2/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Suspended Solids	1126	1689	XXX	30	45 Wkly Avg	60	2/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Dissolved Solids	Report Avg Qrtly	XXX	XXX	1000.0 Avg Qrtly	XXX	1500	1/quarter	24-Hr Composite

Outfall001 , Continued (from Permit Effective Date 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	Daily Maximum	Instant. Maximum		
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/month	Grab
Ultraviolet light transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Nitrate-Nitrite as N Nov 1 - Jun 30	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Nitrate-Nitrite as N Jul 1 - Oct 31	356	XXX	XXX	9.5	XXX	19	2/week	24-Hr Composite
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	Calculation
Ammonia-Nitrogen Nov 1 - Apr 30	169	XXX	XXX	4.5	XXX	9	2/week	24-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	56	XXX	XXX	1.5	XXX	3	2/week	24-Hr Composite
Total Kjeldahl Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Total Phosphorus Nov 1 - Mar 31	70	XXX	XXX	1.86	XXX	3.72	2/week	24-Hr Composite
Total Phosphorus Apr 1 - Oct 31	35	XXX	XXX	0.93	XXX	1.86	2/week	24-Hr Composite
Aluminum, Total	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Boron, Total	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Cadmium, Total	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Copper, Total	0.68	1.05 Daily Max	XXX	0.018	0.028	0.044	1/month	24-Hr Composite
Iron, Dissolved	11.63	18.01 Daily Max	XXX	0.31	0.48	0.77	1/month	24-Hr Composite
Lead, Total	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite

Outfall001 , Continued (from Permit Effective Date 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	Daily Maximum	Instant. Maximum		
Zinc, Total	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
2,4-Dinitrotoluene	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Hardness, Total (as CaCO3)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
PFOA (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
PFOS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
PFBS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
HFPO-DA (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Toxicity, Chronic - Ceriodaphnia Survival (TUc)	XXX	XXX	XXX	XXX	Report	XXX	See Permit	24-Hr Composite
Toxicity, Chronic - Ceriodaphnia Reproduction (TUc)	XXX	XXX	XXX	XXX	Report	XXX	See Permit	24-Hr Composite
Toxicity, Chronic - Pimephales Survival (TUc)	XXX	XXX	XXX	XXX	Report	XXX	See Permit	24-Hr Composite
Toxicity, Chronic - Pimephales Growth (TUc)	XXX	XXX	XXX	XXX	Report	XXX	See Permit	24-Hr Composite

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 002, Effective Period: Permit Effective Date 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	Report Inst Min	XXX	XXX	Report	Daily when Discharging	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	Report	XXX	Report	Daily when Discharging	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	Report	Report	XXX	Daily when Discharging	Grab
Total Suspended Solids	XXX	XXX	XXX	Report	Report	XXX	Daily when Discharging	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	Report	Report	XXX	Daily when Discharging	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/discharge	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	Report	Report	XXX	Daily when Discharging	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” (362-0400-001), SOPs and/or BPJ.

Outfall 003, Effective Period: Permit Effective Date 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	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	Report Inst Min	XXX	XXX	Report	Daily when Discharging	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	Report	XXX	Report	Daily when Discharging	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	Report	Report Daily Max	XXX	Daily when Discharging	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/discharge	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” (362-0400-001), SOPs and/or BPJ.

Outfall 004, Effective Period: Permit Effective Date 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	Average Weekly	Minimum	Daily Maximum	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Suspended Solids	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Kjeldahl Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Iron, Dissolved	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab



Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
02F	2889	Trib 02889 to W Branch Neshaminy C	1.100	300.00	1.15	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary		Stream	
									Temp (°C)	pH	Temp (°C)	pH
Q7-10	0.100	0.00	0.12	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Lansdale Boro	PA0026182	3.2000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	11.00	2.00	0.00	1.50
Dissolved Oxygen	6.00	8.24	0.00	0.00
NH3-N	1.50	0.00	0.00	0.70

NPDES Permit Fact Sheet

NPDES Permit No. PA0026182
Lansdale Borough STP

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
02F	2889	Trib 02889 to W Branch Neshaminy C	0.000	279.50	2.44	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.100	0.00	0.24	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	0.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (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

NPDES Permit Fact Sheet

**NPDES Permit No. PA0026182
Lansdale Borough STP**

WQM 7.0 Hydrodynamic Outputs

<u>SWP Basin</u>		<u>Stream Code</u>				<u>Stream Name</u>						
02F		2889				Trib 02889 to W Branch Neshaminy Cr						
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 (°C)	Analysis pH
Q7-10 Flow												
1.100	0.12	0.00	0.12	4.9504	0.00353	.664	15.54	23.39	0.49	0.137	24.88	7.00
Q1-10 Flow												
1.100	0.08	0.00	0.08	4.9504	0.00353	NA	NA	NA	0.49	0.137	24.92	7.00
Q30-10 Flow												
1.100	0.16	0.00	0.16	4.9504	0.00353	NA	NA	NA	0.49	0.136	24.84	7.00

NPDES Permit Fact Sheet

**NPDES Permit No. PA0026182
Lansdale Borough STP**

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	<input checked="" type="checkbox"/>
WLA Method	EMPR	Use Inputted W/D Ratio	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	<input type="checkbox"/>
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	<input checked="" type="checkbox"/>
D.O. Saturation	90.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
D.O. Goal	6		

NPDES Permit Fact Sheet

NPDES Permit No. PA0026182
 Lansdale Borough STP

WQM 7.0 D.O.Simulation

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
02F	2889	Trib 02889 to W Branch Neshaminy Cr		
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>		<u>Analysis pH</u>
1.100	3.200	24.882		7.000
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>		<u>Reach Velocity (fps)</u>
15.538	0.664	23.393		0.491
<u>Reach CBOD5 (mg/L)</u>	<u>Reach Kc (1/days)</u>	<u>Reach NH3-N (mg/L)</u>		<u>Reach Kn (1/days)</u>
10.79	1.493	1.39		1.019
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>		<u>Reach DO Goal (mg/L)</u>
6.053	18.499	Tsivoglou		6
<u>Reach Travel Time (days)</u>	Subreach Results			
0.137	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.014	10.51	1.37	6.14
	0.027	10.25	1.35	6.21
	0.041	9.99	1.34	6.28
	0.055	9.74	1.32	6.35
	0.068	9.49	1.30	6.41
	0.082	9.25	1.28	6.46
	0.096	9.02	1.26	6.51
	0.109	8.79	1.25	6.56
	0.123	8.57	1.23	6.61
	0.137	8.35	1.21	6.65

NPDES Permit Fact Sheet

**NPDES Permit No. PA0026182
Lansdale Borough STP**

WQM 7.0 Wasteload Allocations

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>
02F	2889	Trib 02889 to W Branch Neshaminy Cr

NH3-N Acute Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
1.100	Lansdale Boro	11.14	3	11.14	3	0	0

NH3-N Chronic Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
1.100	Lansdale Boro	1.38	1.43	1.38	1.43	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	<u>CBOD5</u>		<u>NH3-N</u>		<u>Dissolved Oxygen</u>		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
1.10	Lansdale Boro	11	11	1.43	1.43	6	6	0	0

NPDES Permit Fact Sheet

**NPDES Permit No. PA0026182
Lansdale Borough STP**

WQM 7.0 Effluent Limits

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>			
02F		2889		Trib 02889 to W Branch Neshaminy Cr			
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)
1.100	Lansdale Boro	PA0026182	3,200	CBOD5	11		
				NH3-N	1.43	2.86	
				Dissolved Oxygen			6

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Toxics Management Spreadsheet
Version 1.4, May 2023

Discharge Information

Instructions Discharge Stream

Facility: Lansdale Borough STP NPDES Permit No.: PA0026182 Outfall No.: 001

Evaluation Type: Major Sewage / Industrial Waste Wastewater Description: Treated Sewage Effluent

Discharge Characteristics								
Design Flow (MGD)*	Hardness (mg/l)*	pH (SU)*	Partial Mix Factors (PMFs)				Complete Mix Times (min)	
			AFC	CFC	THH	CRL	Q ₇₋₁₀	Q _h
3.2	209	7.05						

Discharge Pollutant	Units	Max Discharge Conc	0 if left blank		0.5 if left blank		0 if left blank			1 if left blank	
			Trib Conc	Stream Conc	Daily CV	Hourly CV	Stream CV	Fate Coeff	FOS	Criteria Mod	Chem Transl
Group 1	Total Dissolved Solids (PWS)	mg/L	800								
	Chloride (PWS)	mg/L	383								
	Bromide	mg/L	<	0.2							
	Sulfate (PWS)	mg/L	63.5								
	Fluoride (PWS)	mg/L									
Group 2	Total Aluminum	µg/L	160								
	Total Antimony	µg/L	0.5								
	Total Arsenic	µg/L	1								
	Total Barium	µg/L	50								
	Total Beryllium	µg/L	<	0.1							
	Total Boron	µg/L	178								
	Total Cadmium	µg/L	0.1								
	Total Chromium (III)	µg/L	<	0.2							
	Hexavalent Chromium	µg/L	<	0.1							
	Total Cobalt	µg/L	<	0.2							
	Total Copper	µg/L	20								
	Free Cyanide	µg/L	2.38								
	Total Cyanide	µg/L	8								
	Dissolved Iron	µg/L	70								
	Total Iron	µg/L	111								
	Total Lead	µg/L	1								
	Total Manganese	µg/L	49								
	Total Mercury	µg/L	<	0.09							
	Total Nickel	µg/L	2								
	Total Phenols (Phenolics) (PWS)	µg/L	<	0.19							
Total Selenium	µg/L	<	0.5								
Total Silver	µg/L	<	0.2								
Total Thallium	µg/L	<	0.05								
Total Zinc	µg/L	56									
Total Molybdenum	µg/L	8									
Acrolein	µg/L	<	0.5								
Acrylamide	µg/L	<									
Acrylonitrile	µg/L	<	0.3								
Benzene	µg/L	<	0.4								
Bromoform	µg/L	<	0.4								

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Stream / Surface Water Information

Lansdale Borough STP, NPDES Permit No. PA0026182, Outfall 001

Instructions Discharge Stream

Receiving Surface Water Name: UNT to West Branch Neshaminy Creek No. Reaches to Model: 1

- Statewide Criteria
- Great Lakes Criteria
- ORSANCO Criteria

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi ²)*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	002889	1.1	300	1.15			Yes
End of Reach 1	002889	0	279.5	2.44			Yes

Q₇₋₁₀

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		WD Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	1.1	0.1	0.115									100	7		
End of Reach 1	0	0.1	0.244												

Q_h

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		WD Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	1.1														
End of Reach 1	0														

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Toxics Management Spreadsheet
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Model Results

Lansdale Borough STP, NPDES Permit No. PA0026182, Outfall 001

All
 Inputs
 Results
 Limits

- Hydrodynamics
- Wasteload Allocations

AFC
 CCT (min):
 PMF:
 Analysis Hardness (mg/l):
 Analysis pH:

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	750	750	767	
Total Antimony	0	0		0	1,100	1,100	1,126	
Total Arsenic	0	0		0	340	340	348	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	21,488	
Total Boron	0	0		0	8,100	8,100	8,288	
Total Cadmium	0	0		0	4.074	4.46	4.56	Chem Translator of 0.914 applied
Total Chromium (III)	0	0		0	1031.948	3,266	3,342	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	16	16.3	16.7	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	97.2	
Total Copper	0	0		0	26.616	27.7	28.4	Chem Translator of 0.96 applied
Free Cyanide	0	0		0	22	22.0	22.5	
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	140.860	206	210	Chem Translator of 0.685 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	1.400	1.65	1.69	Chem Translator of 0.85 applied
Total Nickel	0	0		0	864.833	867	887	Chem Translator of 0.998 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	Chem Translator of 0.922 applied
Total Silver	0	0		0	11.199	13.2	13.5	Chem Translator of 0.85 applied
Total Thallium	0	0		0	65	65.0	66.5	
Total Zinc	0	0		0	216.637	222	227	Chem Translator of 0.978 applied
Acrolein	0	0		0	3	3.0	3.07	

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Acrylonitrile	0	0	0	650	650	665
Benzene	0	0	0	640	640	655
Bromoform	0	0	0	1,800	1,800	1,842
Carbon Tetrachloride	0	0	0	2,800	2,800	2,865
Chlorobenzene	0	0	0	1,200	1,200	1,228
Chlorodibromomethane	0	0	0	N/A	N/A	N/A
2-Chloroethyl Vinyl Ether	0	0	0	18,000	18,000	18,418
Chloroform	0	0	0	1,900	1,900	1,944
Dichlorobromomethane	0	0	0	N/A	N/A	N/A
1,2-Dichloroethane	0	0	0	15,000	15,000	15,348
1,1-Dichloroethylene	0	0	0	7,500	7,500	7,674
1,2-Dichloropropane	0	0	0	11,000	11,000	11,256
1,3-Dichloropropylene	0	0	0	310	310	317
Ethylbenzene	0	0	0	2,900	2,900	2,967
Methyl Bromide	0	0	0	550	550	563
Methyl Chloride	0	0	0	28,000	28,000	28,650
Methylene Chloride	0	0	0	12,000	12,000	12,279
1,1,2,2-Tetrachloroethane	0	0	0	1,000	1,000	1,023
Tetrachloroethylene	0	0	0	700	700	716
Toluene	0	0	0	1,700	1,700	1,739
1,2-trans-Dichloroethylene	0	0	0	6,800	6,800	6,958
1,1,1-Trichloroethane	0	0	0	3,000	3,000	3,070
1,1,2-Trichloroethane	0	0	0	3,400	3,400	3,479
Trichloroethylene	0	0	0	2,300	2,300	2,353
Vinyl Chloride	0	0	0	N/A	N/A	N/A
2-Chlorophenol	0	0	0	560	560	573
2,4-Dichlorophenol	0	0	0	1,700	1,700	1,739
2,4-Dimethylphenol	0	0	0	660	660	675
4,6-Dinitro-o-Cresol	0	0	0	80	80.0	81.9
2,4-Dinitrophenol	0	0	0	660	660	675
2-Nitrophenol	0	0	0	8,000	8,000	8,186
4-Nitrophenol	0	0	0	2,300	2,300	2,353
p-Chloro-m-Cresol	0	0	0	160	160	164
Pentachlorophenol	0	0	0	9,162	9,16	9,37
Phenol	0	0	0	N/A	N/A	N/A
2,4,6-Trichlorophenol	0	0	0	460	460	471
Acenaphthene	0	0	0	83	83.0	84.9
Anthracene	0	0	0	N/A	N/A	N/A
Benzidine	0	0	0	300	300	307
Benzo(a)Anthracene	0	0	0	0.5	0.5	0.51
Benzo(a)Pyrene	0	0	0	N/A	N/A	N/A
3,4-Benzofluoranthene	0	0	0	N/A	N/A	N/A
Benzo(k)Fluoranthene	0	0	0	N/A	N/A	N/A
Bis(2-Chloroethyl)Ether	0	0	0	30,000	30,000	30,697
Bis(2-Chloroisopropyl)Ether	0	0	0	N/A	N/A	N/A
Bis(2-Ethylhexyl)Phthalate	0	0	0	4,500	4,500	4,605
4-Bromophenyl Phenyl Ether	0	0	0	270	270	276
Butyl Benzyl Phthalate	0	0	0	140	140	143

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2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthracene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	820	820	839	
1,3-Dichlorobenzene	0	0		0	350	350	358	
1,4-Dichlorobenzene	0	0		0	730	730	747	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	4,000	4,000	4,093	
Dimethyl Phthalate	0	0		0	2,500	2,500	2,558	
Di-n-Butyl Phthalate	0	0		0	110	110	113	
2,4-Dinitrotoluene	0	0		0	1,600	1,600	1,637	
2,6-Dinitrotoluene	0	0		0	990	990	1,013	
1,2-Diphenylhydrazine	0	0		0	15	15.0	15.3	
Fluoranthene	0	0		0	200	200	205	
Fluorene	0	0		0	N/A	N/A	N/A	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	10	10.0	10.2	
Hexachlorocyclopentadiene	0	0		0	5	5.0	5.12	
Hexachloroethane	0	0		0	60	60.0	61.4	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	10,000	10,000	10,232	
Naphthalene	0	0		0	140	140	143	
Nitrobenzene	0	0		0	4,000	4,000	4,093	
n-Nitrosodimethylamine	0	0		0	17,000	17,000	17,395	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	300	300	307	
Phenanthrene	0	0		0	5	5.0	5.12	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	130	130	133	

CFC CCT (min): PMF: Analysis Hardness (mg/l): Analysis pH:

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	220	220	225	
Total Arsenic	0	0		0	150	150	153	Chem Translator of 1 applied
Total Barium	0	0		0	4,100	4,100	4,195	
Total Boron	0	0		0	1,600	1,600	1,637	
Total Cadmium	0	0		0	0.407	0.46	0.47	Chem Translator of 0.879 applied
Total Chromium (III)	0	0		0	134.235	156	160	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0		0	10	10.4	10.6	Chem Translator of 0.962 applied
Total Cobalt	0	0		0	19	19.0	19.4	
Total Copper	0	0		0	16.644	17.3	17.7	Chem Translator of 0.96 applied

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Free Cyanide	0	0		0	5.2	5.2	5.32	
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	1,500	1,500	1,535	WQC = 30 day average; PMF = 1
Total Lead	0	0		0	5.489	8.01	8.2	Chem Translator of 0.685 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	0.770	0.91	0.93	Chem Translator of 0.85 applied
Total Nickel	0	0		0	96.056	96.3	98.6	Chem Translator of 0.997 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	4.600	4.99	5.11	Chem Translator of 0.922 applied
Total Silver	0	0		0	N/A	N/A	N/A	Chem Translator of 1 applied
Total Thallium	0	0		0	13	13.0	13.3	
Total Zinc	0	0		0	218.409	222	227	Chem Translator of 0.986 applied
Acrolein	0	0		0	3	3.0	3.07	
Acrylonitrile	0	0		0	130	130	133	
Benzene	0	0		0	130	130	133	
Bromoform	0	0		0	370	370	379	
Carbon Tetrachloride	0	0		0	560	560	573	
Chlorobenzene	0	0		0	240	240	246	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	3,500	3,500	3,581	
Chloroform	0	0		0	390	390	399	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	3,100	3,100	3,172	
1,1-Dichloroethylene	0	0		0	1,500	1,500	1,535	
1,2-Dichloropropane	0	0		0	2,200	2,200	2,251	
1,3-Dichloropropylene	0	0		0	61	61.0	62.4	
Ethylbenzene	0	0		0	580	580	593	
Methyl Bromide	0	0		0	110	110	113	
Methyl Chloride	0	0		0	5,500	5,500	5,628	
Methylene Chloride	0	0		0	2,400	2,400	2,456	
1,1,2-Tetrachloroethane	0	0		0	210	210	215	
Tetrachloroethylene	0	0		0	140	140	143	
Toluene	0	0		0	330	330	338	
1,2-trans-Dichloroethylene	0	0		0	1,400	1,400	1,433	
1,1,1-Trichloroethane	0	0		0	610	610	624	
1,1,2-Trichloroethane	0	0		0	680	680	696	
Trichloroethylene	0	0		0	450	450	460	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	110	110	113	
2,4-Dichlorophenol	0	0		0	340	340	348	
2,4-Dimethylphenol	0	0		0	130	130	133	
4,6-Dinitro-o-Cresol	0	0		0	16	16.0	16.4	
2,4-Dinitrophenol	0	0		0	130	130	133	
2-Nitrophenol	0	0		0	1,600	1,600	1,637	
4-Nitrophenol	0	0		0	470	470	481	

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p-Chloro-m-Cresol	0	0		0	500	500	512
Pentachlorophenol	0	0		0	7,029	7.03	7.19
Phenol	0	0		0	N/A	N/A	N/A
2,4,6-Trichlorophenol	0	0		0	91	91.0	93.1
Acenaphthene	0	0		0	17	17.0	17.4
Anthracene	0	0		0	N/A	N/A	N/A
Benzidine	0	0		0	59	59.0	60.4
Benzo(a)Anthracene	0	0		0	0.1	0.1	0.1
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A
Bis(2-Chloroethyl)Ether	0	0		0	6,000	6,000	6,139
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A
Bis(2-Ethylhexyl)Phthalate	0	0		0	910	910	931
4-Bromophenyl Phenyl Ether	0	0		0	54	54.0	55.3
Butyl Benzyl Phthalate	0	0		0	35	35.0	35.8
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A
Chrysene	0	0		0	N/A	N/A	N/A
Dibenzo(a,h)Anthracene	0	0		0	N/A	N/A	N/A
1,2-Dichlorobenzene	0	0		0	160	160	164
1,3-Dichlorobenzene	0	0		0	69	69.0	70.6
1,4-Dichlorobenzene	0	0		0	150	150	153
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A
Diethyl Phthalate	0	0		0	800	800	819
Dimethyl Phthalate	0	0		0	500	500	512
Di-n-Butyl Phthalate	0	0		0	21	21.0	21.5
2,4-Dinitrotoluene	0	0		0	320	320	327
2,6-Dinitrotoluene	0	0		0	200	200	205
1,2-Diphenylhydrazine	0	0		0	3	3.0	3.07
Fluoranthene	0	0		0	40	40.0	40.9
Fluorene	0	0		0	N/A	N/A	N/A
Hexachlorobenzene	0	0		0	N/A	N/A	N/A
Hexachlorobutadiene	0	0		0	2	2.0	2.05
Hexachlorocyclopentadiene	0	0		0	1	1.0	1.02
Hexachloroethane	0	0		0	12	12.0	12.3
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A
Isophorone	0	0		0	2,100	2,100	2,149
Naphthalene	0	0		0	43	43.0	44.0
Nitrobenzene	0	0		0	810	810	829
n-Nitrosodimethylamine	0	0		0	3,400	3,400	3,479
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A
n-Nitrosodiphenylamine	0	0		0	59	59.0	60.4
Phenanthrene	0	0		0	1	1.0	1.02
Pyrene	0	0		0	N/A	N/A	N/A
1,2,4-Trichlorobenzene	0	0		0	26	26.0	26.6

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THH

CCT (min):

PMF:

Analysis Hardness (mg/l):

Analysis pH:

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	500,000	500,000	N/A	
Chloride (PWS)	0	0		0	250,000	250,000	N/A	
Sulfate (PWS)	0	0		0	250,000	250,000	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	5.6	5.6	5.73	
Total Arsenic	0	0		0	10	10.0	10.2	
Total Barium	0	0		0	2,400	2,400	2,456	
Total Boron	0	0		0	3,100	3,100	3,172	
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Chromium (III)	0	0		0	N/A	N/A	N/A	
Hexavalent Chromium	0	0		0	N/A	N/A	N/A	
Total Cobalt	0	0		0	N/A	N/A	N/A	
Total Copper	0	0		0	N/A	N/A	N/A	
Free Cyanide	0	0		0	4	4.0	4.09	
Dissolved Iron	0	0		0	300	300	307	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Manganese	0	0		0	1,000	1,000	1,023	
Total Mercury	0	0		0	0.050	0.05	0.051	
Total Nickel	0	0		0	610	610	624	
Total Phenols (Phenolics) (PWS)	0	0		0	5	5.0	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	
Total Silver	0	0		0	N/A	N/A	N/A	
Total Thallium	0	0		0	0.24	0.24	0.25	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acrolein	0	0		0	3	3.0	3.07	
Acrylonitrile	0	0		0	N/A	N/A	N/A	
Benzene	0	0		0	N/A	N/A	N/A	
Bromoform	0	0		0	N/A	N/A	N/A	
Carbon Tetrachloride	0	0		0	N/A	N/A	N/A	
Chlorobenzene	0	0		0	100	100.0	102	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	N/A	N/A	N/A	
Chloroform	0	0		0	5.7	5.7	5.83	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	N/A	N/A	N/A	
1,1-Dichloroethylene	0	0		0	33	33.0	33.8	
1,2-Dichloropropane	0	0		0	N/A	N/A	N/A	
1,3-Dichloropropylene	0	0		0	N/A	N/A	N/A	
Ethylbenzene	0	0		0	68	68.0	69.6	

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Methyl Bromide	0	0		0	100	100.0	102
Methyl Chloride	0	0		0	N/A	N/A	N/A
Methylene Chloride	0	0		0	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	0	0		0	N/A	N/A	N/A
Tetrachloroethylene	0	0		0	N/A	N/A	N/A
Toluene	0	0		0	57	57.0	58.3
1,2-trans-Dichloroethylene	0	0		0	100	100.0	102
1,1,1-Trichloroethane	0	0		0	10,000	10,000	10,232
1,1,2-Trichloroethane	0	0		0	N/A	N/A	N/A
Trichloroethylene	0	0		0	N/A	N/A	N/A
Vinyl Chloride	0	0		0	N/A	N/A	N/A
2-Chlorophenol	0	0		0	30	30.0	30.7
2,4-Dichlorophenol	0	0		0	10	10.0	10.2
2,4-Dimethylphenol	0	0		0	100	100.0	102
4,6-Dinitro-o-Cresol	0	0		0	2	2.0	2.05
2,4-Dinitrophenol	0	0		0	10	10.0	10.2
2-Nitrophenol	0	0		0	N/A	N/A	N/A
4-Nitrophenol	0	0		0	N/A	N/A	N/A
p-Chloro-m-Cresol	0	0		0	N/A	N/A	N/A
Pentachlorophenol	0	0		0	N/A	N/A	N/A
Phenol	0	0		0	4,000	4,000	4,093
2,4,6-Trichlorophenol	0	0		0	N/A	N/A	N/A
Acenaphthene	0	0		0	70	70.0	71.6
Anthracene	0	0		0	300	300	307
Benzdine	0	0		0	N/A	N/A	N/A
Benzo(a)Anthracene	0	0		0	N/A	N/A	N/A
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A
Bis(2-Chloroethyl)Ether	0	0		0	N/A	N/A	N/A
Bis(2-Chloroisopropyl)Ether	0	0		0	200	200	205
Bis(2-Ethylhexyl)Phthalate	0	0		0	N/A	N/A	N/A
4-Bromophenyl Phenyl Ether	0	0		0	N/A	N/A	N/A
Butyl Benzyl Phthalate	0	0		0	0.1	0.1	0.1
2-Chloronaphthalene	0	0		0	800	800	819
Chrysene	0	0		0	N/A	N/A	N/A
Dibenzo(a,h)Anthracene	0	0		0	N/A	N/A	N/A
1,2-Dichlorobenzene	0	0		0	1,000	1,000	1,023
1,3-Dichlorobenzene	0	0		0	7	7.0	7.16
1,4-Dichlorobenzene	0	0		0	300	300	307
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A
Diethyl Phthalate	0	0		0	600	600	614
Dimethyl Phthalate	0	0		0	2,000	2,000	2,046
Di-n-Butyl Phthalate	0	0		0	20	20.0	20.5
2,4-Dinitrotoluene	0	0		0	N/A	N/A	N/A

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2,6-Dinitrotoluene	0	0		0	N/A	N/A	N/A	
1,2-Diphenylhydrazine	0	0		0	N/A	N/A	N/A	
Fluoranthene	0	0		0	20	20.0	20.5	
Fluorene	0	0		0	50	50.0	51.2	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	N/A	N/A	N/A	
Hexachlorocyclopentadiene	0	0		0	4	4.0	4.09	
Hexachloroethane	0	0		0	N/A	N/A	N/A	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	34	34.0	34.8	
Naphthalene	0	0		0	N/A	N/A	N/A	
Nitrobenzene	0	0		0	10	10.0	10.2	
n-Nitrosodimethylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	N/A	N/A	N/A	
Phenanthrene	0	0		0	N/A	N/A	N/A	
Pyrene	0	0		0	20	20.0	20.5	
1,2,4-Trichlorobenzene	0	0		0	0.07	0.07	0.072	

CRL CCT (min): PMF: Analysis Hardness (mg/l): Analysis pH:

Pollutants	Stream Conc (µg/l)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	N/A	N/A	N/A	
Total Arsenic	0	0		0	N/A	N/A	N/A	
Total Barium	0	0		0	N/A	N/A	N/A	
Total Boron	0	0		0	N/A	N/A	N/A	
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Chromium (III)	0	0		0	N/A	N/A	N/A	
Hexavalent Chromium	0	0		0	N/A	N/A	N/A	
Total Cobalt	0	0		0	N/A	N/A	N/A	
Total Copper	0	0		0	N/A	N/A	N/A	
Free Cyanide	0	0		0	N/A	N/A	N/A	
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	N/A	N/A	N/A	
Total Nickel	0	0		0	N/A	N/A	N/A	
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	

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Total Silver	0	0		0	N/A	N/A	N/A
Total Thallium	0	0		0	N/A	N/A	N/A
Total Zinc	0	0		0	N/A	N/A	N/A
Acrolein	0	0		0	N/A	N/A	N/A
Acrylonitrile	0	0		0	0.06	0.06	0.074
Benzene	0	0		0	0.58	0.58	0.71
Bromoform	0	0		0	7	7.0	8.59
Carbon Tetrachloride	0	0		0	0.4	0.4	0.49
Chlorobenzene	0	0		0	N/A	N/A	N/A
Chlorodibromomethane	0	0		0	0.8	0.8	0.98
2-Chloroethyl Vinyl Ether	0	0		0	N/A	N/A	N/A
Chloroform	0	0		0	N/A	N/A	N/A
Dichlorobromomethane	0	0		0	0.95	0.95	1.17
1,2-Dichloroethane	0	0		0	9.9	9.9	12.1
1,1-Dichloroethylene	0	0		0	N/A	N/A	N/A
1,2-Dichloropropane	0	0		0	0.9	0.9	1.1
1,3-Dichloropropylene	0	0		0	0.27	0.27	0.33
Ethylbenzene	0	0		0	N/A	N/A	N/A
Methyl Bromide	0	0		0	N/A	N/A	N/A
Methyl Chloride	0	0		0	N/A	N/A	N/A
Methylene Chloride	0	0		0	20	20.0	24.5
1,1,2,2-Tetrachloroethane	0	0		0	0.2	0.2	0.25
Tetrachloroethylene	0	0		0	10	10.0	12.3
Toluene	0	0		0	N/A	N/A	N/A
1,2-trans-Dichloroethylene	0	0		0	N/A	N/A	N/A
1,1,1-Trichloroethane	0	0		0	N/A	N/A	N/A
1,1,2-Trichloroethane	0	0		0	0.55	0.55	0.67
Trichloroethylene	0	0		0	0.6	0.6	0.74
Vinyl Chloride	0	0		0	0.02	0.02	0.025
2-Chlorophenol	0	0		0	N/A	N/A	N/A
2,4-Dichlorophenol	0	0		0	N/A	N/A	N/A
2,4-Dimethylphenol	0	0		0	N/A	N/A	N/A
4,6-Dinitro-o-Cresol	0	0		0	N/A	N/A	N/A
2,4-Dinitrophenol	0	0		0	N/A	N/A	N/A
2-Nitrophenol	0	0		0	N/A	N/A	N/A
4-Nitrophenol	0	0		0	N/A	N/A	N/A
p-Chloro-m-Cresol	0	0		0	N/A	N/A	N/A
Pentachlorophenol	0	0		0	0.030	0.03	0.037
Phenol	0	0		0	N/A	N/A	N/A
2,4,6-Trichlorophenol	0	0		0	1.5	1.5	1.84
Acenaphthene	0	0		0	N/A	N/A	N/A
Anthracene	0	0		0	N/A	N/A	N/A
Benzidine	0	0		0	0.0001	0.0001	0.0001
Benzo(a)Anthracene	0	0		0	0.001	0.001	0.001
Benzo(a)Pyrene	0	0		0	0.0001	0.0001	0.0001

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3,4-Benzofluoranthene	0	0		0	0.001	0.001	0.001	
Benzo(k)Fluoranthene	0	0		0	0.01	0.01	0.012	
Bis(2-Chloroethyl)Ether	0	0		0	0.03	0.03	0.037	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	0.32	0.32	0.39	
4-Bromophenyl Phenyl Ether	0	0		0	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0		0	N/A	N/A	N/A	
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	0.12	0.12	0.15	
Dibenzo(a,h)Anthracene	0	0		0	0.0001	0.0001	0.0001	
1,2-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
1,3-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
1,4-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
3,3-Dichlorobenzidine	0	0		0	0.05	0.05	0.061	
Diethyl Phthalate	0	0		0	N/A	N/A	N/A	
Dimethyl Phthalate	0	0		0	N/A	N/A	N/A	
Di-n-Butyl Phthalate	0	0		0	N/A	N/A	N/A	
2,4-Dinitrotoluene	0	0		0	0.05	0.05	0.061	
2,6-Dinitrotoluene	0	0		0	0.05	0.05	0.061	
1,2-Diphenylhydrazine	0	0		0	0.03	0.03	0.037	
Fluoranthene	0	0		0	N/A	N/A	N/A	
Fluorene	0	0		0	N/A	N/A	N/A	
Hexachlorobenzene	0	0		0	0.00008	0.00008	0.0001	
Hexachlorobutadiene	0	0		0	0.01	0.01	0.012	
Hexachlorocyclopentadiene	0	0		0	N/A	N/A	N/A	
Hexachloroethane	0	0		0	0.1	0.1	0.12	
Indeno(1,2,3-cd)Pyrene	0	0		0	0.001	0.001	0.001	
Isophorone	0	0		0	N/A	N/A	N/A	
Naphthalene	0	0		0	N/A	N/A	N/A	
Nitrobenzene	0	0		0	N/A	N/A	N/A	
n-Nitrosodimethylamine	0	0		0	0.0007	0.0007	0.0009	
n-Nitrosodi-n-Propylamine	0	0		0	0.005	0.005	0.006	
n-Nitrosodiphenylamine	0	0		0	3.3	3.3	4.05	
Phenanthrene	0	0		0	N/A	N/A	N/A	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	N/A	N/A	N/A	

Recommended WQBELs & Monitoring Requirements

No. Samples/Month: **4**

Pollutants	Mass Limits		Concentration Limits				Governing WQBEL	WQBEL Basis	Comments
	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units			
Total Aluminum	Report	Report	Report	Report	Report	µg/L	750	AFC	Discharge Conc > 10% WQBEL (no RP)

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Total Boron	Report	Report	Report	Report	Report	µg/L	1,637	CFC	Discharge Conc > 10% WQBEL (no RP)
Total Cadmium	Report	Report	Report	Report	Report	µg/L	0.47	CFC	Discharge Conc > 10% WQBEL (no RP)
Total Copper	0.47	0.74	17.7	27.7	44.3	µg/L	17.7	CFC	Discharge Conc ≥ 50% WQBEL (RP)
Free Cyanide	0.11	0.17	4.09	6.39	10.2	µg/L	4.09	THH	Discharge Conc ≥ 50% WQBEL (RP)
Dissolved Iron	Report	Report	Report	Report	Report	µg/L	307	THH	Discharge Conc > 10% WQBEL (no RP)
Total Lead	Report	Report	Report	Report	Report	µg/L	8.2	CFC	Discharge Conc > 10% WQBEL (no RP)
Total Zinc	Report	Report	Report	Report	Report	µg/L	222	AFC	Discharge Conc > 10% WQBEL (no RP)
2,4-Dinitrotoluene	0.002	0.003	0.061	0.096	0.15	µg/L	0.061	CRL	Discharge Conc ≥ 50% WQBEL (RP)

Other Pollutants without Limits or Monitoring

The following pollutants do not require effluent limits or monitoring based on water quality because reasonable potential to exceed water quality criteria was not determined and the discharge concentration was less than thresholds for monitoring, or the pollutant was not detected and a sufficiently sensitive analytical method was used (e.g., <= Target QL).

Pollutants	Governing WQBEL	Units	Comments
Total Dissolved Solids (PWS)	N/A	N/A	PWS Not Applicable
Chloride (PWS)	N/A	N/A	PWS Not Applicable
Bromide	N/A	N/A	No WQS
Sulfate (PWS)	N/A	N/A	PWS Not Applicable
Total Antimony	5.73	µg/L	Discharge Conc ≤ 10% WQBEL
Total Arsenic	10.2	µg/L	Discharge Conc ≤ 10% WQBEL
Total Barium	2,456	µg/L	Discharge Conc ≤ 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Chromium (III)	160	µg/L	Discharge Conc < TQL
Hexavalent Chromium	10.6	µg/L	Discharge Conc < TQL
Total Cobalt	19.4	µg/L	Discharge Conc < TQL
Total Cyanide	N/A	N/A	No WQS
Total Iron	1,535	µg/L	Discharge Conc ≤ 10% WQBEL
Total Manganese	1,023	µg/L	Discharge Conc ≤ 10% WQBEL
Total Mercury	0.051	µg/L	Discharge Conc < TQL
Total Nickel	98.6	µg/L	Discharge Conc ≤ 10% WQBEL
Total Phenols (Phenolics) (PWS)		µg/L	Discharge Conc < TQL
Total Selenium	5.11	µg/L	Discharge Conc < TQL
Total Silver	13.2	µg/L	Discharge Conc < TQL
Total Thallium	0.25	µg/L	Discharge Conc < TQL
Total Molybdenum	N/A	N/A	No WQS
Acrolein	3.0	µg/L	Discharge Conc < TQL
Acrylonitrile	0.074	µg/L	Discharge Conc < TQL
Benzene	0.71	µg/L	Discharge Conc < TQL
Bromoform	8.59	µg/L	Discharge Conc < TQL
Carbon Tetrachloride	0.49	µg/L	Discharge Conc < TQL
Chlorobenzene	102	µg/L	Discharge Conc ≤ 25% WQBEL
Chlorodibromomethane	0.98	µg/L	Discharge Conc < TQL
Chloroethane	N/A	N/A	No WQS

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2-Chloroethyl Vinyl Ether	3,581	µg/L	Discharge Conc < TQL
Chloroform	5.83	µg/L	Discharge Conc < TQL
Dichlorobromomethane	1.17	µg/L	Discharge Conc < TQL
1,1-Dichloroethane	N/A	N/A	No WQS
1,2-Dichloroethane	12.1	µg/L	Discharge Conc < TQL
1,1-Dichloroethylene	33.8	µg/L	Discharge Conc < TQL
1,2-Dichloropropane	1.1	µg/L	Discharge Conc < TQL
1,3-Dichloropropylene	0.33	µg/L	Discharge Conc < TQL
1,4-Dioxane	N/A	N/A	No WQS
Ethylbenzene	69.6	µg/L	Discharge Conc < TQL
Methyl Bromide	102	µg/L	Discharge Conc ≤ 25% WQBEL
Methyl Chloride	5,628	µg/L	Discharge Conc < TQL
Methylene Chloride	24.5	µg/L	Discharge Conc < TQL
1,1,2,2-Tetrachloroethane	0.25	µg/L	Discharge Conc < TQL
Tetrachloroethylene	12.3	µg/L	Discharge Conc < TQL
Toluene	58.3	µg/L	Discharge Conc < TQL
1,2-trans-Dichloroethylene	102	µg/L	Discharge Conc < TQL
1,1,1-Trichloroethane	624	µg/L	Discharge Conc < TQL
1,1,2-Trichloroethane	0.67	µg/L	Discharge Conc < TQL
Trichloroethylene	0.74	µg/L	Discharge Conc < TQL
Vinyl Chloride	0.025	µg/L	Discharge Conc < TQL
2-Chlorophenol	30.7	µg/L	Discharge Conc < TQL
2,4-Dichlorophenol	10.2	µg/L	Discharge Conc < TQL
2,4-Dimethylphenol	102	µg/L	Discharge Conc < TQL
4,6-Dinitro-o-Cresol	2.05	µg/L	Discharge Conc < TQL
2,4-Dinitrophenol	10.2	µg/L	Discharge Conc < TQL
2-Nitrophenol	1,637	µg/L	Discharge Conc < TQL
4-Nitrophenol	481	µg/L	Discharge Conc < TQL
p-Chloro-m-Cresol	160	µg/L	Discharge Conc ≤ 25% WQBEL
Pentachlorophenol	0.037	µg/L	Discharge Conc < TQL
Phenol	4,093	µg/L	Discharge Conc < TQL
2,4,6-Trichlorophenol	1.84	µg/L	Discharge Conc ≤ 25% WQBEL
Acenaphthene	17.4	µg/L	Discharge Conc < TQL
Acenaphthylene	N/A	N/A	No WQS
Anthracene	307	µg/L	Discharge Conc < TQL
Benzidine	0.0001	µg/L	Discharge Conc < TQL
Benzo(a)Anthracene	0.001	µg/L	Discharge Conc < TQL
Benzo(a)Pyrene	0.0001	µg/L	Discharge Conc < TQL
3,4-Benzofluoranthene	0.001	µg/L	Discharge Conc < TQL
Benzo(ghi)Perylene	N/A	N/A	No WQS
Benzo(k)Fluoranthene	0.012	µg/L	Discharge Conc < TQL
Bis(2-Chloroethoxy)Methane	N/A	N/A	No WQS
Bis(2-Chloroethyl)Ether	0.037	µg/L	Discharge Conc < TQL
Bis(2-Chloroisopropyl)Ether	205	µg/L	Discharge Conc < TQL
Bis(2-Ethylhexyl)Phthalate	0.39	µg/L	Discharge Conc < TQL

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4-Bromophenyl Phenyl Ether	55.3	µg/L	Discharge Conc < TQL
Butyl Benzyl Phthalate	0.1	µg/L	Discharge Conc < TQL
2-Chloronaphthalene	819	µg/L	Discharge Conc < TQL
4-Chlorophenyl Phenyl Ether	N/A	N/A	No WQS
Chrysene	0.15	µg/L	Discharge Conc < TQL
Dibenzo(a,h)Anthracene	0.0001	µg/L	Discharge Conc < TQL
1,2-Dichlorobenzene	164	µg/L	Discharge Conc < TQL
1,3-Dichlorobenzene	7.16	µg/L	Discharge Conc < TQL
1,4-Dichlorobenzene	153	µg/L	Discharge Conc < TQL
3,3-Dichlorobenzidine	0.061	µg/L	Discharge Conc < TQL
Diethyl Phthalate	614	µg/L	Discharge Conc < TQL
Dimethyl Phthalate	512	µg/L	Discharge Conc < TQL
Di-n-Butyl Phthalate	20.5	µg/L	Discharge Conc < TQL
2,6-Dinitrotoluene	0.061	µg/L	Discharge Conc < TQL
Di-n-Octyl Phthalate	N/A	N/A	No WQS
1,2-Diphenylhydrazine	0.037	µg/L	Discharge Conc < TQL
Fluoranthene	20.5	µg/L	Discharge Conc < TQL
Fluorene	51.2	µg/L	Discharge Conc < TQL
Hexachlorobenzene	0.0001	µg/L	Discharge Conc < TQL
Hexachlorobutadiene	0.012	µg/L	Discharge Conc < TQL
Hexachlorocyclopentadiene	1.02	µg/L	Discharge Conc < TQL
Hexachloroethane	0.12	µg/L	Discharge Conc < TQL
Indeno(1,2,3-cd)Pyrene	0.001	µg/L	Discharge Conc < TQL
Isophorone	34.8	µg/L	Discharge Conc < TQL
Naphthalene	44.0	µg/L	Discharge Conc < TQL
Nitrobenzene	10.2	µg/L	Discharge Conc < TQL
n-Nitrosodimethylamine	0.0009	µg/L	Discharge Conc < TQL
n-Nitrosodi-n-Propylamine	0.006	µg/L	Discharge Conc < TQL
n-Nitrosodiphenylamine	4.05	µg/L	Discharge Conc < TQL
Phenanthrene	1.02	µg/L	Discharge Conc < TQL
Pyrene	20.5	µg/L	Discharge Conc < TQL
1,2,4-Trichlorobenzene	0.072	µg/L	Discharge Conc < TQL

NPDES Permit Fact Sheet

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Lansdale Borough STP**