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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0005622**
Facility Type	**Industrial**	APS ID	**1074461**
Major / Minor	**Minor**	Authorization ID	**1415487**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**Bessemer & Lake Erie RR Co.**	Facility Name	**Bessemer & Lake Erie RR Ohl Street**
Applicant Address	85 Ohl Street	Facility Address	85 Ohl Street
	Greenville, PA 16125-2350		Greenville, PA 16125-0471
Applicant Contact	David Hayslip	Facility Contact	
Applicant Phone	(724) 589-4142	Facility Phone	
Applicant E Mail	david.hayslip@cn.ca	Facility E Mail	
Client ID	191191	Site ID	250717
Municipality	Hempfield Township	County	Mercer
SIC Code	4011		3741
SIC Description	Line-Haul Operating,Transportation Equip		Trans. & Utilities – Railroads, repair shop
Date Application Received	October 21, 2022	EPA Waived?	Yes
Date Application Accepted	November 3, 2022	If No, Reason	

Purpose of Application: NPDES IW discharge permit renewal

Summary of Review

This site over the past 30 years has been downsized from a railyard with locomotive repair to a locomotive repair shop. During the change over the oily waste treatment system was revised.

No processing wastes are reported. The discharge is a combination of locomotive wash water and storm water runoff. The first NPDES permit established BPJ limitation based on the installed API oil-water separators. The estimated wash water flow is 300-gpd. As the discharge is largely storm water the existing quarterly reporting is recommended.

A locomotive fueling terminal with potentially contaminated stormwater run-off should be present but should not affect either the treatment requirements or effluent quality.

No current violations are listed for the B&LE.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
X		William H. Mentzer William H. Mentzer, P.E. Environmental Engineering Specialist	November 3, 2022
X		Vacant Environmental Engineer Manager	Okay to Draft JCD 12/7/2022

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0003
Latitude DP	41º 23' 52.122"	Longitude DP	-80º 23' 27.34"
Latitude NHD	41º 23' 54.10"	Longitude NHD	-80º 23' 27.78"
Quad Name	Greenville West	Quad Code	0702

Wastewater Description: Locomotive washing, miscellaneous cleaning, and storm water runoff.

Receiving Waters	Shenango River	Stream Code	35482
NHD Com ID	130027753	RMI	56,49
Drainage Area	296.2	Yield (cfs/mi^2)	0.15
Q_{7-10} Flow (cfs)	45,34	Q_{7-10} Basis	Shenango River
Elevation (ft)	927.51	Slope (ft/ft)	0.00069
Watershed No.	20-A	Chapter 93 Class.	WWF
Existing Use	**statewide**	Existing Use Qualifier	none
Exceptions to Use	none	Exceptions to Criteria	none
Comments			

Assessment Status	Attaining Use(s)
Cause(s) of Impairment	
Source(s) of Impairment	
TMDL Status	Name

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake	Aqua Pa Shenango Valley		
PWS Waters	Shenango River	Flow at Intake (cfs)	
PWS RMI	29.45	Distance from Outfall (mi)	26.59

Changes Since Last Permit Issuance: none

Other Comments: none

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002	Design Flow (MGD)	0
Latitude DP	41º 23' 47.00"	Longitude DP	-80º 23' 28.00"
Latitude NHD	41º 23' 47.10"	Longitude NHD	-80º 23' 28.53"
Quad Name	Greenville West	Quad Code	0702
Wastewater Description:	Stormwater		

Receiving Waters	Shenango River (WWF)	Stream Code	35482
NHD Com ID	130027753	RMI	56.03
Drainage Area	296,4	Yield (cfs/mi^2)	0.15
Q_{7-10} Flow (cfs)	45.37	Q_{7-10} Basis	Shenango River
Elevation (ft)	925.85	Slope (ft/ft)	0.00069
Watershed No.	20-A	Chapter 93 Class.	WWF
Existing Use	**statewide**	Existing Use Qualifier	none
Exceptions to Use	none	Exceptions to Criteria	none
Comments			

Assessment Status	Attaining Use(s)
Cause(s) of Impairment	
Source(s) of Impairment	
TMDL Status	Name

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake	Aqua Pa Shenango Valley		
PWS Waters	Shenango River	Flow at Intake (cfs)	NA
PWS RMI	29.45	Distance from Outfall (mi)	26.13

Changes Since Last Permit Issuance: None

Other Comments: None

Treatment Facility Summary

Treatment Facility Name: Bessemer & Lake Erie RR Ohl Street

WQM Permit No.	Issuance Date
4373203	
4375201	

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Industrial	Other Processes (Industrial Waste)	Oil and Grease Removal (Skim/Separator)	No Disinfection	0.0003

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0003		Not Overloaded		

Changes Since Last Permit Issuance: none

Other Comments: Treatment is with an API oil-water separator.

WQM permit 4373203 has been merged with WQM permit 4375201 with WQM permit itself being cancelled in 1975.

No thallium reporting is recommended as thallium is reported at less than 0.020-mg/L in this and previous renewals.

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Toxics Management Spreadsheet
Version 1.3, March 2021

Stream / Surface Water Information

Bessemer & Lake vErie Railroad, NPDES Permit No. PA0005622, Outfall 001

Instructions | Discharge | Stream

Receiving Surface Water Name: **Shenango River** 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	035482	56.49	927.51	296.2			Yes
End of Reach 1	035482	56.03	925.85	296.4			Yes

$Q_{7\text{-}10}$

Location	RMI	LFY (cfs/mi^2)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	56.49	0.15										100	7		
End of Reach 1	56.03	0.15													

Q_h

Location	RMI	LFY (cfs/mi^2)	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness	pH	Hardness	pH
Point of Discharge	56.49														
End of Reach 1	56.03														

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Toxics Management Spreadsheet
Version 1.3, March 2021

Discharge Information

Instructions | Discharge | Stream

Facility: Bessemer & Lake vErie Railroad NPDES Permit No.: PA0005622 Outfall No.: 001

Evaluation Type: Major Sewage / Industrial Waste Wastewater Description: Locomotive cleaning

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
0.104	256	7.58						

					0 if left blank		0.5 if left blank		0 if left blank			1 if left blank	
	Discharge Pollutant	Units	Max Discharge Conc		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		379									
	Chloride (PWS)	mg/L		88.1									
	Bromide	mg/L	<	50									
	Sulfate (PWS)	mg/L		46.7									
	Fluoride (PWS)	mg/L		0.17									
Group 2	Total Aluminum	µg/L		605									
	Total Antimony	µg/L	<	20									
	Total Arsenic	µg/L	<	20									
	Total Barium	µg/L		112									
	Total Beryllium	µg/L	<	1									
	Total Boron	µg/L		180									
	Total Cadmium	µg/L	<	2									
	Total Chromium (III)	µg/L	<	5									
	Hexavalent Chromium	µg/L	<	10									
	Total Cobalt	µg/L	<	5									
	Total Copper	µg/L		29.8									
	Free Cyanide	µg/L											
	Total Cyanide	µg/L	<	10									
	Dissolved Iron	µg/L		288									
	Total Iron	µg/L		7470									
	Total Lead	µg/L		31.8									
	Total Manganese	µg/L		1020									
	Total Mercury	µg/L	<	0.2									
	Total Nickel	µg/L	<	5									
	Total Phenols (Phenolics) (PWS)	µg/L	<	50									
	Total Selenium	µg/L	<	20									
	Total Silver	µg/L	<	5									
	Total Thallium	µg/L	<	20									
	Total Zinc	µg/L		90.7									
	Total Molybdenum	µg/L	<	5									
	Acrolein	µg/L	<										
	Acrylamide	µg/L	<										
	Acrylonitrile	µg/L	<										
	Benzene	µg/L	<										
	Bromoform	µg/L	<										

Group 3	Carbon Tetrachloride	µg/L	<										
	Chlorobenzene	µg/L											
	Chlorodibromomethane	µg/L	<										
	Chloroethane	µg/L	<										
	2-Chloroethyl Vinyl Ether	µg/L	<										
	Chloroform	µg/L	<										
	Dichlorobromomethane	µg/L	<										
	1,1-Dichloroethane	µg/L	<										
	1,2-Dichloroethane	µg/L	<										
	1,1-Dichloroethylene	µg/L	<										
	1,2-Dichloropropane	µg/L	<										
	1,3-Dichloropropylene	µg/L	<										
	1,4-Dioxane	µg/L	<										
	Ethylbenzene	µg/L	<										
	Methyl Bromide	µg/L	<										
	Methyl Chloride	µg/L	<										
	Methylene Chloride	µg/L	<										
	1,1,2,2-Tetrachloroethane	µg/L	<										
	Tetrachloroethylene	µg/L	<										
	Toluene	µg/L	<										
	1,2-trans-Dichloroethylene	µg/L	<										
	1,1,1-Trichloroethane	µg/L	<										
	1,1,2-Trichloroethane	µg/L	<										
	Trichloroethylene	µg/L	<										
	Vinyl Chloride	µg/L	<										
Group 4	2-Chlorophenol	µg/L	<										
	2,4-Dichlorophenol	µg/L	<										
	2,4-Dimethylphenol	µg/L	<										
	4,6-Dinitro-o-Cresol	µg/L	<										
	2,4-Dinitrophenol	µg/L	<										
	2-Nitrophenol	µg/L	<										
	4-Nitrophenol	µg/L	<										
	p-Chloro-m-Cresol	µg/L	<										
	Pentachlorophenol	µg/L	<										
	Phenol	µg/L	<										
	2,4,6-Trichlorophenol	µg/L	<										
Group 5	Acenaphthene	µg/L	<										
	Acenaphthylene	µg/L	<										
	Anthracene	µg/L	<										
	Benzidine	µg/L	<										
	Benzo(a)Anthracene	µg/L	<										
	Benzo(a)Pyrene	µg/L	<										
	3,4-Benzofluoranthene	µg/L	<										
	Benzo(ghi)Perylene	µg/L	<										
	Benzo(k)Fluoranthene	µg/L	<										
	Bis(2-Chloroethoxy)Methane	µg/L	<										
	Bis(2-Chloroethyl)Ether	µg/L	<										
	Bis(2-Chloroisopropyl)Ether	µg/L	<										
	Bis(2-Ethylhexyl)Phthalate	µg/L	<										
	4-Bromophenyl Phenyl Ether	µg/L	<										
	Butyl Benzyl Phthalate	µg/L	<										
	2-Chloronaphthalene	µg/L	<										
	4-Chlorophenyl Phenyl Ether	µg/L	<										
	Chrysene	µg/L	<										
	Dibenzo(a,h)Anthrancene	µg/L	<										
	1,2-Dichlorobenzene	µg/L	<										
	1,3-Dichlorobenzene	µg/L	<										
	1,4-Dichlorobenzene	µg/L	<										
	3,3-Dichlorobenzidine	µg/L	<										
	Diethyl Phthalate	µg/L	<										
	Dimethyl Phthalate	µg/L	<										
	Di-n-Butyl Phthalate	µg/L	<										
	2,4-Dinitrotoluene	µg/L	<										

	2,6-Dinitrotoluene	µg/L	<										
	Di-n-Octyl Phthalate	µg/L	<										
	1,2-Diphenylhydrazine	µg/L	<										
	Fluoranthene	µg/L	<										
	Fluorene	µg/L	<										
	Hexachlorobenzene	µg/L	<										
	Hexachlorobutadiene	µg/L	<										
	Hexachlorocyclopentadiene	µg/L	<										
	Hexachloroethane	µg/L	<										
	Indeno(1,2,3-cd)Pyrene	µg/L	<										
	Isophorone	µg/L	<										
	Naphthalene	µg/L	<										
	Nitrobenzene	µg/L	<										
	n-Nitrosodimethylamine	µg/L	<										
	n-Nitrosodi-n-Propylamine	µg/L	<										
	n-Nitrosodiphenylamine	µg/L	<										
	Phenanthrene	µg/L	<										
	Pyrene	µg/L	<										
	1,2,4-Trichlorobenzene	µg/L	<										
Group 6	Aldrin	µg/L	<										
	alpha-BHC	µg/L	<										
	beta-BHC	µg/L	<										
	gamma-BHC	µg/L	<										
	delta BHC	µg/L	<										
	Chlordane	µg/L	<										
	4,4-DDT	µg/L	<										
	4,4-DDE	µg/L	<										
	4,4-DDD	µg/L	<										
	Dieldrin	µg/L	<										
	alpha-Endosulfan	µg/L	<										
	beta-Endosulfan	µg/L	<										
	Endosulfan Sulfate	µg/L	<										
	Endrin	µg/L	<										
	Endrin Aldehyde	µg/L	<										
	Heptachlor	µg/L	<										
	Heptachlor Epoxide	µg/L	<										
	PCB-1016	µg/L	<										
	PCB-1221	µg/L	<										
	PCB-1232	µg/L	<										
	PCB-1242	µg/L	<										
	PCB-1248	µg/L	<										
	PCB-1254	µg/L	<										
	PCB-1260	µg/L	<										
	PCBs, Total	µg/L	<										
	Toxaphene	µg/L	<										
	2,3,7,8-TCDD	ng/L	<										
Group 7	Gross Alpha	pCi/L											
	Total Beta	pCi/L	<										
	Radium 226/228	pCi/L	<										
	Total Strontium	µg/L	<										
	Total Uranium	µg/L	<										
	Osmotic Pressure	mOs/kg											

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Toxics Management Spreadsheet
Version 1.3, March 2021

Model Results

Bessemer & Lake vErie Railroad, NPDES Permit No. PA0005622, Outfall 001

Instructions | Results | RETURN TO INPUTS | SAVE AS PDF | PRINT | ◉ All ○ Inputs ○ Results ○ Limits

☐ ***Hydrodynamics***

☑ ***Wasteload Allocations***

☑ ***AFC*** CCT (min): 15 PMF: 0.156 Analysis Hardness (mg/l): 103.54 Analysis pH: 7.01

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	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	750	750	33,071	
Total Antimony	0	0		0	1,100	1,100	48,505	
Total Arsenic	0	0		0	340	340	14,992	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	926,001	
Total Boron	0	0		0	8,100	8,100	357,172	
Total Cadmium	0	0		0	2.083	2.21	97.4	Chem Translator of 0.943 applied
Total Chromium (III)	0	0		0	586.220	1,855	81,802	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	16	16.3	718	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	4,189	
Total Copper	0	0		0	13.887	14.5	638	Chem Translator of 0.96 applied
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	67.071	85.3	3,763	Chem Translator of 0.786 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	1.400	1.65	72.6	Chem Translator of 0.85 applied
Total Nickel	0	0		0	482.212	483	21,306	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	3.415	4.02	177	Chem Translator of 0.85 applied
Total Thallium	0	0		0	65	65.0	2,866	

☑ ***CFC*** CCT (min): ###### PMF: 1 Analysis Hardness (mg/l): 100.56 Analysis pH: 7.00

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	
Fluoride (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	60,974	
Total Arsenic	0	0		0	150	150	41,573	Chem Translator of 1 applied
Total Barium	0	0		0	4,100	4,100	1,136,335	
Total Boron	0	0		0	1,600	1,600	443,448	
Total Cadmium	0	0		0	0.247	0.27	75.3	Chem Translator of 0.909 applied
Total Chromium (III)	0	0		0	74.456	86.6	23,995	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0		0	10	10.4	2,881	Chem Translator of 0.962 applied
Total Cobalt	0	0		0	19	19.0	5,266	
Total Copper	0	0		0	8.999	9.37	2,598	Chem Translator of 0.96 applied
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	1,500	1,500	415,732	WQC = 30 day average; PMF = 1
Total Lead	0	0		0	2.532	3.2	888	Chem Translator of 0.79 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	0.770	0.91	251	Chem Translator of 0.85 applied
Total Nickel	0	0		0	52.254	52.4	14,526	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	1,383	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	3,603	
Total Zinc	0	0		0	118.702	120	33,366	Chem Translator of 0.986 applied

☑ ***THH*** CCT (min): ###### PMF: 1 Analysis Hardness (mg/l): N/A Analysis pH: N/A

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	
Fluoride (PWS)	0	0		0	2,000	2,000	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	5.6	5.6	1,552	
Total Arsenic	0	0		0	10	10.0	2,772	
Total Barium	0	0		0	2,400	2,400	665,172	
Total Boron	0	0		0	3,100	3,100	859,180	
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	
Dissolved Iron	0	0		0	300	300	83,146	
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	277,155	
Total Mercury	0	0		0	0.050	0.05	13.9	
Total Nickel	0	0		0	610	610	169,064	
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	66.5	
Total Zinc	0	0		0	N/A	N/A	N/A	

☑ ***CRL*** CCT (min): ###### PMF: 1 Analysis Hardness (mg/l): N/A Analysis pH: N/A

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	
Fluoride (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	
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	
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	

☑ ***Recommended WQBELs & Monitoring Requirements***

No. Samples/Month: 4

	Mass Limits		*Concentration Limits*						
Pollutants	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units	Governing WQBEL	WQBEL Basis	Comments
Total Thallium	Report	Report	Report	Report	Report	µg/L	66.5	THH	Discharge Conc > 10% WQBEL (no 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
Fluoride (PWS)	N/A	N/A	PWS Not Applicable
Total Aluminum	21,197	µg/L	Discharge Conc ≤ 10% WQBEL
Total Antimony	1,552	µg/L	Discharge Conc ≤ 10% WQBEL
Total Arsenic	2,772	µg/L	Discharge Conc ≤ 10% WQBEL
Total Barium	593,529	µg/L	Discharge Conc ≤ 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Boron	228,933	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cadmium	62.5	µg/L	Discharge Conc ≤ 10% WQBEL
Total Chromium (III)	23,995	µg/L	Discharge Conc ≤ 10% WQBEL
Hexavalent Chromium	461	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cobalt	2,685	µg/L	Discharge Conc ≤ 10% WQBEL
Total Copper	409	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cyanide	N/A	N/A	No WQS
Dissolved Iron	83,146	µg/L	Discharge Conc ≤ 10% WQBEL
Total Iron	415,732	µg/L	Discharge Conc ≤ 10% WQBEL
Total Lead	888	µg/L	Discharge Conc ≤ 10% WQBEL
Total Manganese	277,155	µg/L	Discharge Conc ≤ 10% WQBEL
Total Mercury	13.9	µg/L	Discharge Conc < TQL
Total Nickel	13,656	µg/L	Discharge Conc ≤ 10% WQBEL
Total Phenols (Phenolics) (PWS)		µg/L	PWS Not Applicable
Total Selenium	1,383	µg/L	Discharge Conc ≤ 10% WQBEL
Total Silver	114	µg/L	Discharge Conc ≤ 10% WQBEL
Total Zinc	3,488	µg/L	Discharge Conc ≤ 10% WQBEL
Total Molybdenum	N/A	N/A	No WQS

DMR Data for Outfall 001 (from October 1, 2021 to September 30, 2022)

Parameter	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21
Flow (MGD) Average Quarterly	0.0059			0.014			0.0			0.020		
Flow (MGD) Daily Maximum	0.015			0.031			0.0			0.065		
pH (S.U.) Daily Minimum	7.60			7.13			8.06			7.43		
pH (S.U.) Daily Maximum	7.60			7.13			8.06			7.43		
TSS (mg/L) Average Quarterly	57.0			< 4.0			5.0			< 4.0		
TSS (mg/L) Instantaneous Maximum	57.0			< 4.0			5.0			< 4.0		
Oil and Grease (mg/L) Average Quarterly	8.0			< 5.0			< 5.0			< 5.1		
Oil and Grease (mg/L) Instantaneous Maximum	8.0			< 5.0			< 5.0			< 5.1		

Compliance History

Effluent Violations for Outfall 001, from: November 1, 2021 To: September 30, 2022

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
TSS	09/30/22	Avg Qrtly	57.0	mg/L	30.0	mg/L

Other Comments: Not a significant violation with quarterly reporting,

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	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	Report Daily Max	XXX	XXX	XXX	XXX	1/year	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	1/year	Grab
Oil and Grease	XXX	XXX	XXX	15.0	XXX	30.0	1/year	Grab

Compliance Sampling Location: 001 after oil-water separation.

Annual monitoring as proposed by the applicant.