Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

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

Application Type	**Renewal**	Application No.	**PA0239046**
Facility Type	**Industrial**	APS ID	**1107403**
Major / Minor	**Minor**	Authorization ID	**1473083**

Applicant and Facility Information

Applicant Name	**JMS Manufacturing LLC**	Facility Name	**Ridgway Powdered Metals**
Applicant Address	417 Thorn Street Suite 300	Facility Address	6931 Ridgway Saint Marys Road
	Sewickley, PA 15143-1509		Ridgway, PA 15853
Applicant Contact	Jeremy Gabler	Facility Contact	Jeremy Gabler
Applicant Phone	(814) 772-5551	Facility Phone	(814) 772-5551
Client ID	369202	Site ID	259589
SIC Code	3399	Municipality	Ridgway Township
SIC Description	Manufacturing - Primary Metal Products, Nec	County	Elk
Date Application Received	January 22, 2024	EPA Waived?	Yes
Date Application Accepted	January 22, 2024	If No, Reason	
Purpose of Application	NPDES Renewal.		

Summary of Review

JMS Manufacturing LLC (JMS) has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit renewal. The permit was last reissued on June 17, 2019 and became effective on July 1, 2019. The permit expired on June 30, 2024.

Based on the review, it is recommended that the permit be drafted.

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		*Jinsu Kim* Jinsu Kim / Environmental Engineering Specialist	May 20, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	May 22, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0091
Latitude	41º 25' 32.00"	Longitude	-78º 42' 52.00"
Quad Name	-	Quad Code	-
Wastewater Description:	Noncontact Cooling Water (NCCW)		
Receiving Waters	Small ditch to Elk Creek (CWF)	Stream Code	50459
NHD Com ID	102665463	RMI	2.3
Drainage Area	59.2	Yield (cfs/mi^2)	0.07
Q_{7-10} Flow (cfs)	4.32	Q_{7-10} Basis	Streamstats - Elk Creek
Elevation (ft)	1420	Slope (ft/ft)	0.00428
Watershed No.	17-A	Chapter 93 Class.	CWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	Final (6/20/2006)*	Name	Elk Creek TMDL (Elk County) 50459 (impaired for AMD metals)
Nearest Downstream Public Water Supply Intake	Pennsylvania American Water Company - Clarion		
PWS Waters	Clarion River	Flow at Intake (cfs)	90.7
PWS RMI	33.3	Distance from Outfall (mi)	66.0

Drainage Area
The discharge is to a small ditch and then to Elk Creek at RM 2.3. A drainage area upstream of the point of discharge is estimated to be 59.2 sq.mi. according to USGS StreamStats available at https://streamstats.usgs.gov/ss/.

Streamflow
USGS StreamStats produced a Q7-10 flow of 4.32 cfs at the point of discharge.

Elk Creek
According to 25 Code § 93.9r, Elk Creek has a protected water use of cold water fishery (CWF). Clarion River which is a main stem of Elk Creek has also a protected water use of CWF. Therefore, no special protection water is impacted by this discharge. According to DEP's 2024 Integrated Water Quality Report, Elk Creek near the point of discharge is not impaired for aquatic life use but is in fact impaired for fish consumption due to Mercury as a result of atmospheric deposition. DEP developed a Total Maximum Daily Load (TMDL) for Elk Creek watershed on March 28, 2005 to address impairments resulted from acid drainage from abandoned coal mines within the Elk Creek watershed. The more details on this TMDL will be addressed later in this fact sheet.

Public Water Supply Intake
The fact sheet developed for the last permit renewal indicates that the nearest downstream public water supply intake is PA American Water on Clarion River approximately 66 miles from the discharge point. Given the distance, the discharge is not expected to adversely affect the intake.

Facility Information
JMS owns a powder metal parts manufacturing plant known as Ridgway Powdered Metals. According to the application, parts are compacted and sintered at an average temperature of 2070 °F. The sintering furnace contains cooling chambers that the parts pass through to reduce the temperature of the parts. This non-contact cooling water is then emptied into the holding pond. According to the application, about 0.0210 MGD of non-contact cooling water is generated as an average. Well water is used for this process. There is no treatment unit for this non-contact cooling water other than the pond that allows additional cooling and settling before discharges to a small ditch before Elk Creek. Sanitary wastewater is discharged to two septic systems comprised of holding tanks and leach fields according to the recent inspection report. This report also indicates that no chemicals are added to non-contact cooling water.

Compliance History

Summary of DMRs:	A summary of past 12 month DMR data is presented on the next page.
Summary of Inspections:	12/28/2022: DEP conducted a routine inspection and identified a number of violations at the time of inspection. A full report will be available for file review.
Other Comments:	The facility had a number of permit violations since the last permit reissuance. These violations are shown below.

Date	Description	Date2	Description2
Nov-19	Late DMR Submission	Jan-23	Late DMR Submission
Feb-20	Late DMR Submission	May-23	Late DMR Submission
May-21	Late DMR Submission	Nov-23	Late DMR Submission
May-21	Sample type not in accordance with permit	Dec-23	Late DMR Submission
Jun-21	Late DMR Submission	Mar-24	Late DMR Submission
Jun-21	Sample type not in accordance with permit	Apr-24	Late DMR Submission
Jul-21	Late DMR Submission	Jun-24	Late DMR Submission
Jul-21	Sample type not in accordance with permit	Aug-24	Late DMR Submission
Aug-21	Late DMR Submission	Sep-24	Late DMR Submission
Oct-21	Late DMR Submission	Oct-24	Late DMR Submission
Nov-21	Late DMR Submission	Nov-24	Late DMR Submission
Dec-21	Late DMR Submission	Jan-25	Late DMR Submission
Mar-22	Late DMR Submission	Feb-25	Late DMR Submission
Apr-22	Late DMR Submission		
Jun-22	Late DMR Submission		
Aug-22	Sample type not in accordance with permit		
Sep-22	Late DMR Submission		
Oct-22	Late DMR Submission		

DEP's database shows there is no open violation associated with this facility or permittee.

Effluent Data

DMR Data for Outfall 001 (from April 1, 2024 to March 31, 2025)

Parameter	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24
Flow (MGD) Average Monthly	0.025	0.023	0.021	0.021	0.021	0.024	0.026	0.027	0.024	0.0227	0.022	0.021
pH (S.U.) Instantaneous Minimum	8.4	8.2	8.2	8.3	8.3	8.3	8.2	8.3	8.1	7.8	8.1	8.2
pH (S.U.) Instantaneous Maximum	8.4	8.2	8.2	8.3	8.3	8.3	8.2	8.3	8.1	7.8	8.1	8.2

Existing Effluent Limits and Monitoring Requirements

The table below summarizes effluent limits and monitoring requirements specified in the existing permit.

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	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .0091
Latitude 41º 25' 32.00" **Longitude** -78º 42' 52.00"
Wastewater Description: Noncontact Cooling Water (NCCW)

Technology-Based Limitations

Any industrial wastewater facilities are generally regulated by effluent standards found in 25 Pa. Code §§ 92a.48 and 95.2. These standards are as follows:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
ELGs			40 CFR § 430.00	25 Pa. Code § 92a.48(a)(1)
pH	6.0 – 9.0 (S.U.)	Minimum – Maximum	-	25 Pa. Code § 95.2 (1)
Oil and Grease	15	Average Monthly	-	25 Pa. Code § 95.2 (2)(ii)
	30	Daily Maximum		25 Pa. Code § 95.2 (2)(ii)
Dissolved Iron	7.0	Maximum	-	25 Pa. Code § 95.2 (4)
Total Residual Chlorine	0.5	Average Monthly	-	25 Pa. Code § 92a.48(b)(2)

According to the EPA's 2011 Effluent Guidelines Plan – 2011 Annual Review Report Appendix A, facilities under the SIC Code 3399 are subject to the federal ELGs for Nonferrous Metals Forming and Metal Powders (i.e., 40 CFR § 471.00). However, no Effluent Limitation Guidelines (ELGs) are applicable since the facility does not discharge process wastewater and it is only non-contact cooling water. Also, since the facility does not use chlorine, total residual chlorine (TRC) effluent limitation is not applicable. For oil and grease, no oil bearing wastewater will be discharged from this facility; therefore, effluent limitation is not applicable.

25 Pa. Code § 95.2 (4) recommends a maximum of 7.0 mg/L for dissolved iron for all industrial wastewater. However, the sample results provided in the application have a dissolved iron level of 0.129 mg/L. Accordingly, in the opinion of the Department, dissolved iron is not a parameter of concern.

In general, temperature requirements are imposed in the NPDES permit for heated wastewater (cooling water) discharges from industrial facilities. However, considering the quantity and frequency of cooling water discharges, temperature is not a parameter of concern. A significant cooling is also expected in the existing pond.

Water Quality-Based Limitations

WQM 7.0
CBOD5 and NH3-N are not pollutants of concern for noncontact cooling water and no chemicals are currently added to this noncontact cooling water. Therefore, WQM 7.0 modeling is not necessary and permit requirements for these pollutants are not recommended.

Toxics
Maximum concentrations of toxic pollutants reported on the application were entered into DEP's Toxics Management Spreadsheet (TMS). TMS output shows that there are no pollutants of concern and no water quality based effluent limits are required.

Additional Considerations

Flow Monitoring
Flow monitoring will remain in the permit and is required by 40 CFR § 122.44(i)(1)(ii).

Elk Creek Watershed TMDL
DEP developed a TMDL in 2005 to address impairments identified within the Elk Creek Watershed TMDL. These impairments are caused by metals (iron, manganese, aluminum) as a result of abandoned coalmines. The TMDL does not include the wasteload allocation for this discharge. Given the nature of discharge which is noncontact cooling water, the discharge is not expected to significantly contribute to impairments within this watershed. The Elk Creek at the point of

discharge is attaining its uses. Sample data provided with the application shows the discharge contains < 0.25 mg/L of Aluminum, 0.10 mg/L of Manganese, and 0.112 mg/L of Iron. These values are well below current water quality criteria. No further requirements are therefore recommended at this time.

Anti-Degradation Requirements
The effluent limits for this discharge have been developed to ensure the existing in-stream uses and the level of water quality necessary to protect the existing uses are maintained and protected. No High Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

Anti-Backsliding Requirements
Unless stated otherwise in this fact sheet, permit requirements proposed in this fact sheet are at least as stringent as existing permit requirements.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

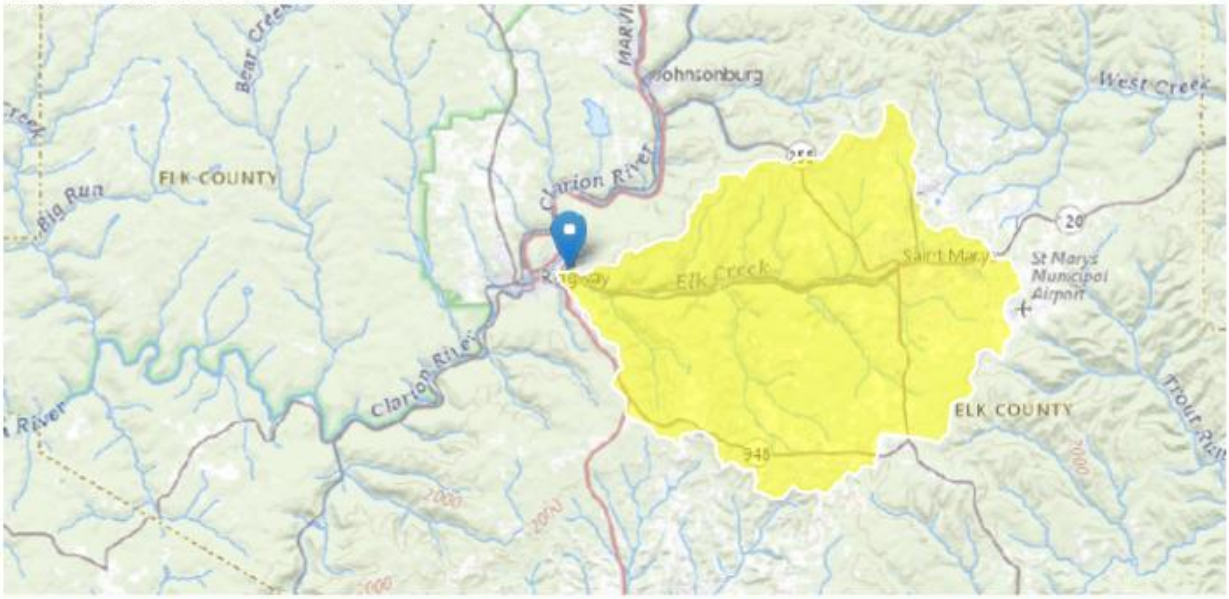
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

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	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
☐	Pennsylvania CSO Policy, 386-2000-002, 9/08.
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
☐	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
☐	Design Stream Flows, 386-2000-003, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other:

StreamStats Report

Region ID: PA
Workspace ID: PA20250520123727291000
Clicked Point (Latitude, Longitude): 41.42556, -78.71432
Time: 2025-05-20 08:37:50 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	59.2	square miles
ELEV	Mean Basin Elevation	1870	feet
PRECIP	Mean Annual Precipitation	45	inches

General Disclaimers

Parameter values have been edited, computed flows may not apply.

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	59.2	square miles	2.33	1720
ELEV	Mean Basin Elevation	1870	feet	898	2700
PRECIP	Mean Annual Precipitation	45	inches	38.7	47.9

Low-Flow Statistics Flow Report [Low Flow Region 3]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	8.27	ft^3/s	43	43
30 Day 2 Year Low Flow	11.4	ft^3/s	38	38
7 Day 10 Year Low Flow	4.32	ft^3/s	54	54
30 Day 10 Year Low Flow	5.55	ft^3/s	49	49
90 Day 10 Year Low Flow	7.9	ft^3/s	41	41

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

Application Version: 4.29.1
StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Toxics Management Spreadsheet
Version 1.4, May 2023

Discharge Information

Instructions | Discharge | Stream

Facility: **Ridgway Powdered Metals** NPDES Permit No.: **PA0239046** Outfall No.: **001**

Evaluation Type **Major Sewage / Industrial Waste** Wastewater Description: **NCCW**

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
0.0091	100	7						

					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		302									
	Chloride (PWS)	mg/L		62.9									
	Bromide	mg/L		0.44									
	Sulfate (PWS)	mg/L		16.6									
	Fluoride (PWS)	mg/L		0.32									
Group 2	Total Aluminum	µg/L	<	250									
	Total Antimony	µg/L	<	20									
	Total Arsenic	µg/L	<	10									
	Total Barium	µg/L		0.158									
	Total Beryllium	µg/L	<	1									
	Total Boron	µg/L		69.9									
	Total Cadmium	µg/L	<	2									
	Total Chromium (III)	µg/L	<	8									
	Hexavalent Chromium	µg/L	<	50									
	Total Cobalt	µg/L	<	20									
	Total Copper	µg/L	<	6									
	Free Cyanide	µg/L											
	Total Cyanide	µg/L											
	Dissolved Iron	µg/L		129									
	Total Iron	µg/L		112									
	Total Lead	µg/L	<	10									
	Total Manganese	µg/L		100									
	Total Mercury	µg/L		0.0002									
	Total Nickel	µg/L	<	20									
	Total Phenols (Phenolics) (PWS)	µg/L		0.05									
	Total Selenium	µg/L	<	8									
	Total Silver	µg/L	<	4									
	Total Thallium	µg/L	<	0.02									
	Total Zinc	µg/L	<	10									
	Total Molybdenum	µg/L	<	20									
	Acrolein	µg/L	<	1									
	Acrylamide	µg/L	<	1									
	Acrylonitrile	µg/L	<	1									
	Benzene	µg/L	<	1									
	Bromoform	µg/L	<	1									
	Carbon Tetrachloride	µg/L	<	1									

Group 3	Chlorobenzene	µg/L		1									
	Chlorodibromomethane	µg/L	<	1									
	Chloroethane	µg/L	<	1									
	2-Chloroethyl Vinyl Ether	µg/L	<	1									
	Chloroform	µg/L	<	1									
	Dichlorobromomethane	µg/L	<	1									
	1,1-Dichloroethane	µg/L	<	1									
	1,2-Dichloroethane	µg/L	<	1									
	1,1-Dichloroethylene	µg/L	<	1									
	1,2-Dichloropropane	µg/L	<	1									
	1,3-Dichloropropylene	µg/L	<	1									
	1,4-Dioxane	µg/L	<	1									
	Ethylbenzene	µg/L	<	1									
	Methyl Bromide	µg/L	<	1									
	Methyl Chloride	µg/L	<	5									
	Methylene Chloride	µg/L	<	1									
	1,1,2,2-Tetrachloroethane	µg/L	<	1									
	Tetrachloroethylene	µg/L	<	1									
	Toluene	µg/L	<	1									
	1,2-trans-Dichloroethylene	µg/L	<	1									
	1,1,1-Trichloroethane	µg/L	<	1									
	1,1,2-Trichloroethane	µg/L	<	1									
	Trichloroethylene	µg/L	<	1									
	Vinyl Chloride	µg/L	<	2									
Group 4	2-Chlorophenol	µg/L	<	0.05									
	2,4-Dichlorophenol	µg/L	<	0.05									
	2,4-Dimethylphenol	µg/L	<	0.05									
	4,6-Dinitro-o-Cresol	µg/L	<	0.1									
	2,4-Dinitrophenol	µg/L	<	0.1									
	2-Nitrophenol	µg/L	<	0.05									
	4-Nitrophenol	µg/L	<	0.05									
	p-Chloro-m-Cresol	µg/L	<										
	Pentachlorophenol	µg/L	<										
	Phenol	µg/L	<										
	2,4,6-Trichlorophenol	µg/L	<	0.05									
Group 5	Acenaphthene	µg/L	<	0.05									
	Acenaphthylene	µg/L	<	0.05									
	Anthracene	µg/L	<	0.05									
	Benzidine	µg/L	<	0.1									
	Benzo(a)Anthracene	µg/L	<	0.2									
	Benzo(a)Pyrene	µg/L	<	0.05									
	3,4-Benzofluoranthene	µg/L	<										
	Benzo(ghi)Perylene	µg/L	<	0.05									
	Benzo(k)Fluoranthene	µg/L	<	0.05									
	Bis(2-Chloroethoxy)Methane	µg/L	<	0.05									
	Bis(2-Chloroethyl)Ether	µg/L	<	0.05									
	Bis(2-Chloroisopropyl)Ether	µg/L	<	0.05									
	Bis(2-Ethylhexyl)Phthalate	µg/L	<	0.02									
	4-Bromophenyl Phenyl Ether	µg/L	<	0.05									
	Butyl Benzyl Phthalate	µg/L	<	0.05									
	2-Chloronaphthalene	µg/L	<	0.05									
	4-Chlorophenyl Phenyl Ether	µg/L	<	0.05									
	Chrysene	µg/L	<	0.04									
	Dibenzo(a,h)Anthrancene	µg/L	<	0.1									
	1,2-Dichlorobenzene	µg/L	<	0.2									
	1,3-Dichlorobenzene	µg/L	<	0.05									
	1,4-Dichlorobenzene	µg/L	<	0.05									
	3,3-Dichlorobenzidine	µg/L	<	0.002									
	Diethyl Phthalate	µg/L	<	0.05									
	Dimethyl Phthalate	µg/L	<	0.1									
	Di-n-Butyl Phthalate	µg/L	<	0.05									
	2,4-Dinitrotoluene	µg/L	<	0.05									
	2,6-Dinitrotoluene	µg/L	<	0.05									
	Di-n-Octyl Phthalate	µg/L	<	0.05									

	1,2-Diphenylhydrazine	µg/L	<	0.04									
	Fluoranthene	µg/L	<	0.05									
	Fluorene	µg/L	<	0.05									
	Hexachlorobenzene	µg/L	<	0.05									
	Hexachlorobutadiene	µg/L	<	0.05									
	Hexachlorocyclopentadiene	µg/L	<	0.1									
	Hexachloroethane	µg/L	<	0.05									
	Indeno(1,2,3-cd)Pyrene	µg/L	<	0.05									
	Isophorone	µg/L	<	0.05									
	Naphthalene	µg/L	<	0.05									
	Nitrobenzene	µg/L	<	0.05									
	n-Nitrosodimethylamine	µg/L	<	0.05									
	n-Nitrosodi-n-Propylamine	µg/L	<	0.05									
	n-Nitrosodiphenylamine	µg/L	<	0.05									
	Phenanthrene	µg/L	<	0.05									
	Pyrene	µg/L	<	0.05									
	1,2,4-Trichlorobenzene	µg/L	<	0.05									
Group 6	Aldrin	µg/L	<	0.00347									
	alpha-BHC	µg/L	<	0.00347									
	beta-BHC	µg/L	<	0.00347									
	gamma-BHC	µg/L	<	0.00347									
	delta BHC	µg/L	<	0.00347									
	Chlordane	µg/L	<	0.00694									
	4,4-DDT	µg/L	<	0.00347									
	4,4-DDE	µg/L	<	0.00347									
	4,4-DDD	µg/L	<	0.00347									
	Dieldrin	µg/L	<	0.00347									
	alpha-Endosulfan	µg/L	<	0.00347									
	beta-Endosulfan	µg/L	<	0.00347									
	Endosulfan Sulfate	µg/L	<	0.00347									
	Endrin	µg/L	<	0.00347									
	Endrin Aldehyde	µg/L	<	0.00347									
	Heptachlor	µg/L	<	0.0034									
	Heptachlor Epoxide	µg/L	<	0.00347									
	PCB-1016	µg/L	<	0.00139									
	PCB-1221	µg/L	<	0.00139									
	PCB-1232	µg/L	<	0.00139									
	PCB-1242	µg/L	<	0.00139									
	PCB-1248	µg/L	<	0.00139									
	PCB-1254	µg/L	<	0.00139									
	PCB-1260	µg/L	<	0.00139									
	PCBs, Total	µg/L	<	0.00417									
	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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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Toxics Management Spreadsheet
Version 1.4, May 2023

Stream / Surface Water Information

Ridgway Powdered Metals, NPDES Permit No. PA0239046, Outfall 001

Instructions | Discharge | *Stream*

Receiving Surface Water Name: **Elk 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	050459	2.3	1420	59.2			Yes
End of Reach 1	050459	0	1368	63.5			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	2.3	0.07										100	7		
End of Reach 1	0	0.07										100	7		

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	2.3														
End of Reach 1	0														

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Toxics Management Spreadsheet
Version 1.4, May 2023

Model Results

Ridgway Powdered Metals, NPDES Permit No. PA0239046, Outfall 001

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

☐ ***Hydrodynamics***

☑ ***Wasteload Allocations***

☑ ***AFC*** CCT (min): 15 PMF: 0.609 Analysis Hardness (mg/l): 100 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	750	750	135,159	
Total Antimony	0	0		0	1,100	1,100	198,234	
Total Arsenic	0	0		0	340	340	61,272	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	3,784,461	
Total Boron	0	0		0	8,100	8,100	1,459,721	
Total Cadmium	0	0		0	2.014	2.13	384	Chem Translator of 0.944 applied
Total Chromium (III)	0	0		0	569.763	1,803	324,932	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	16	16.3	2,936	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	17,120	
Total Copper	0	0		0	13.439	14.0	2,523	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	64.581	81.6	14,713	Chem Translator of 0.791 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	1.400	1.65	297	Chem Translator of 0.85 applied
Total Nickel	0	0		0	468.236	469	84,551	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	3.217	3.78	682	Chem Translator of 0.85 applied
Total Thallium	0	0		0	65	65.0	11,714	
Total Zinc	0	0		0	117.180	120	21,592	Chem Translator of 0.978 applied
Acrolein	0	0		0	3	3.0	541	
Acrylamide	0	0		0	N/A	N/A	N/A	
Acrylonitrile	0	0		0	650	650	117,138	

Benzene	0	0		0	640	640	115,336	
Bromoform	0	0		0	1,800	1,800	324,382	
Carbon Tetrachloride	0	0		0	2,800	2,800	504,595	
Chlorobenzene	0	0		0	1,200	1,200	216,255	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	18,000	18,000	3,243,824	
Chloroform	0	0		0	1,900	1,900	342,404	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	15,000	15,000	2,703,187	
1,1-Dichloroethylene	0	0		0	7,500	7,500	1,351,593	
1,2-Dichloropropane	0	0		0	11,000	11,000	1,982,337	
1,3-Dichloropropylene	0	0		0	310	310	55,866	
Ethylbenzene	0	0		0	2,900	2,900	522,616	
Methyl Bromide	0	0		0	550	550	99,117	
Methyl Chloride	0	0		0	28,000	28,000	5,045,948	
Methylene Chloride	0	0		0	12,000	12,000	2,162,549	
1,1,2,2-Tetrachloroethane	0	0		0	1,000	1,000	180,212	
Tetrachloroethylene	0	0		0	700	700	126,149	
Toluene	0	0		0	1,700	1,700	306,361	
1,2-trans-Dichloroethylene	0	0		0	6,800	6,800	1,225,445	
1,1,1-Trichloroethane	0	0		0	3,000	3,000	540,637	
1,1,2-Trichloroethane	0	0		0	3,400	3,400	612,722	
Trichloroethylene	0	0		0	2,300	2,300	414,489	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	560	560	100,919	
2,4-Dichlorophenol	0	0		0	1,700	1,700	306,361	
2,4-Dimethylphenol	0	0		0	660	660	118,940	
4,6-Dinitro-o-Cresol	0	0		0	80	80.0	14,417	
2,4-Dinitrophenol	0	0		0	660	660	118,940	
2-Nitrophenol	0	0		0	8,000	8,000	1,441,700	
4-Nitrophenol	0	0		0	2,300	2,300	414,489	
2,4,6-Trichlorophenol	0	0		0	460	460	82,898	
Acenaphthene	0	0		0	83	83.0	14,958	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	300	300	54,064	
Benzo(a)Anthracene	0	0		0	0.5	0.5	90.1	
Benzo(a)Pyrene	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	5,406,373	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	4,500	4,500	810,956	
4-Bromophenyl Phenyl Ether	0	0		0	270	270	48,657	
Butyl Benzyl Phthalate	0	0		0	140	140	25,230	
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	820	820	147,774	
1,3-Dichlorobenzene	0	0		0	350	350	63,074	
1,4-Dichlorobenzene	0	0		0	730	730	131,555	

3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	4,000	4,000	720,850	
Dimethyl Phthalate	0	0		0	2,500	2,500	450,531	
Di-n-Butyl Phthalate	0	0		0	110	110	19,823	
2,4-Dinitrotoluene	0	0		0	1,600	1,600	288,340	
2,6-Dinitrotoluene	0	0		0	990	990	178,410	
1,2-Diphenylhydrazine	0	0		0	15	15.0	2,703	
Fluoranthene	0	0		0	200	200	36,042	
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	1,802	
Hexachlorocyclopentadiene	0	0		0	5	5.0	901	
Hexachloroethane	0	0		0	60	60.0	10,813	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	10,000	10,000	1,802,124	
Naphthalene	0	0		0	140	140	25,230	
Nitrobenzene	0	0		0	4,000	4,000	720,850	
n-Nitrosodimethylamine	0	0		0	17,000	17,000	3,063,611	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	300	300	54,064	
Phenanthrene	0	0		0	5	5.0	901	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	130	130	23,428	
Aldrin	0	0		0	3	3.0	541	
alpha-BHC	0	0		0	N/A	N/A	N/A	
beta-BHC	0	0		0	N/A	N/A	N/A	
gamma-BHC	0	0		0	0.95	0.95	171	
Chlordane	0	0		0	2.4	2.4	433	
4,4-DDT	0	0		0	1.1	1.1	198	
4,4-DDE	0	0		0	1.1	1.1	198	
4,4-DDD	0	0		0	1.1	1.1	198	
Dieldrin	0	0		0	0.24	0.24	43.3	
alpha-Endosulfan	0	0		0	0.22	0.22	39.6	
beta-Endosulfan	0	0		0	0.22	0.22	39.6	
Endosulfan Sulfate	0	0		0	N/A	N/A	N/A	
Endrin	0	0		0	0.086	0.086	15.5	
Endrin Aldehyde	0	0		0	N/A	N/A	N/A	
Heptachlor	0	0		0	0.52	0.52	93.7	
Heptachlor Epoxide	0	0		0	0.5	0.5	90.1	
PCBs, Total	0	0		0	N/A	N/A	N/A	

CFC CCT (min): 40.470 PMF: 1 Analysis Hardness (mg/l): 100 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	64,981	
Total Arsenic	0	0		0	150	150	44,305	Chem Translator of 1 applied
Total Barium	0	0		0	4,100	4,100	1,211,002	
Total Boron	0	0		0	1,600	1,600	472,586	
Total Cadmium	0	0		0	0.246	0.27	79.9	Chem Translator of 0.909 applied
Total Chromium (III)	0	0		0	74.115	86.2	25,455	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0		0	10	10.4	3,070	Chem Translator of 0.962 applied
Total Cobalt	0	0		0	19	19.0	5,612	
Total Copper	0	0		0	8.956	9.33	2,755	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	443,049	WQC = 30 day average; PMF = 1
Total Lead	0	0		0	2.517	3.18	940	Chem Translator of 0.791 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	0.770	0.91	268	Chem Translator of 0.85 applied
Total Nickel	0	0		0	52.007	52.2	15,407	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	1,474	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	3,840	
Total Zinc	0	0		0	118.139	120	35,390	Chem Translator of 0.986 applied
Acrolein	0	0		0	3	3.0	886	
Acrylamide	0	0		0	N/A	N/A	N/A	
Acrylonitrile	0	0		0	130	130	38,398	
Benzene	0	0		0	130	130	38,398	
Bromoform	0	0		0	370	370	109,286	
Carbon Tetrachloride	0	0		0	560	560	165,405	
Chlorobenzene	0	0		0	240	240	70,888	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	3,500	3,500	1,033,782	
Chloroform	0	0		0	390	390	115,193	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	3,100	3,100	915,635	
1,1-Dichloroethylene	0	0		0	1,500	1,500	443,049	
1,2-Dichloropropane	0	0		0	2,200	2,200	649,806	
1,3-Dichloropropylene	0	0		0	61	61.0	18,017	
Ethylbenzene	0	0		0	580	580	171,312	
Methyl Bromide	0	0		0	110	110	32,490	
Methyl Chloride	0	0		0	5,500	5,500	1,624,514	
Methylene Chloride	0	0		0	2,400	2,400	708,879	
1,1,2,2-Tetrachloroethane	0	0		0	210	210	62,027	
Tetrachloroethylene	0	0		0	140	140	41,351	
Toluene	0	0		0	330	330	97,471	
1,2-trans-Dichloroethylene	0	0		0	1,400	1,400	413,513	
1,1,1-Trichloroethane	0	0		0	610	610	180,173	
1,1,2-Trichloroethane	0	0		0	680	680	200,849	
Trichloroethylene	0	0		0	450	450	132,915	

Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	110	110	32,490	
2,4-Dichlorophenol	0	0		0	340	340	100,425	
2,4-Dimethylphenol	0	0		0	130	130	38,398	
4,6-Dinitro-o-Cresol	0	0		0	16	16.0	4,726	
2,4-Dinitrophenol	0	0		0	130	130	38,398	
2-Nitrophenol	0	0		0	1,600	1,600	472,586	
4-Nitrophenol	0	0		0	470	470	138,822	
2,4,6-Trichlorophenol	0	0		0	91	91.0	26,878	
Acenaphthene	0	0		0	17	17.0	5,021	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	59	59.0	17,427	
Benzo(a)Anthracene	0	0		0	0.1	0.1	29.5	
Benzo(a)Pyrene	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	1,772,198	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	910	910	268,783	
4-Bromophenyl Phenyl Ether	0	0		0	54	54.0	15,950	
Butyl Benzyl Phthalate	0	0		0	35	35.0	10,338	
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	160	160	47,259	
1,3-Dichlorobenzene	0	0		0	69	69.0	20,380	
1,4-Dichlorobenzene	0	0		0	150	150	44,305	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	800	800	236,293	
Dimethyl Phthalate	0	0		0	500	500	147,683	
Di-n-Butyl Phthalate	0	0		0	21	21.0	6,203	
2,4-Dinitrotoluene	0	0		0	320	320	94,517	
2,6-Dinitrotoluene	0	0		0	200	200	59,073	
1,2-Diphenylhydrazine	0	0		0	3	3.0	886	
Fluoranthene	0	0		0	40	40.0	11,815	
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	591	
Hexachlorocyclopentadiene	0	0		0	1	1.0	295	
Hexachloroethane	0	0		0	12	12.0	3,544	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	2,100	2,100	620,269	
Naphthalene	0	0		0	43	43.0	12,701	
Nitrobenzene	0	0		0	810	810	239,247	
n-Nitrosodimethylamine	0	0		0	3,400	3,400	1,004,245	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	59	59.0	17,427	
Phenanthrene	0	0		0	1	1.0	295	

Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	26	26.0	7,680	
Aldrin	0	0		0	0.1	0.1	29.5	
alpha-BHC	0	0		0	N/A	N/A	N/A	
beta-BHC	0	0		0	N/A	N/A	N/A	
gamma-BHC	0	0		0	N/A	N/A	N/A	
Chlordane	0	0		0	0.0043	0.004	1.27	
4,4-DDT	0	0		0	0.001	0.001	0.3	
4,4-DDE	0	0		0	0.001	0.001	0.3	
4,4-DDD	0	0		0	0.001	0.001	0.3	
Dieldrin	0	0		0	0.056	0.056	16.5	
alpha-Endosulfan	0	0		0	0.056	0.056	16.5	
beta-Endosulfan	0	0		0	0.056	0.056	16.5	
Endosulfan Sulfate	0	0		0	N/A	N/A	N/A	
Endrin	0	0		0	0.036	0.036	10.6	
Endrin Aldehyde	0	0		0	N/A	N/A	N/A	
Heptachlor	0	0		0	0.0038	0.004	1.12	
Heptachlor Epoxide	0	0		0	0.0038	0.004	1.12	
PCBs, Total	0	0		0	0.014	0.014	4.14	

THH CCT (min): 40.470 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	1,654	
Total Arsenic	0	0		0	10	10.0	2,954	
Total Barium	0	0		0	2,400	2,400	708,879	
Total Boron	0	0		0	3,100	3,100	915,635	
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	88,610	
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	295,366	
Total Mercury	0	0		0	0.050	0.05	14.8	
Total Nickel	0	0		0	610	610	180,173	
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	70.9	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acrolein	0	0		0	3	3.0	886	
Acrylamide	0	0		0	N/A	N/A	N/A	
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	29,537	
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	1,684	
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	9,747	
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	20,085	
Methyl Bromide	0	0		0	100	100.0	29,537	
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	16,836	
1,2-trans-Dichloroethylene	0	0		0	100	100.0	29,537	
1,1,1-Trichloroethane	0	0		0	10,000	10,000	2,953,663	
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	8,861	
2,4-Dichlorophenol	0	0		0	10	10.0	2,954	
2,4-Dimethylphenol	0	0		0	100	100.0	29,537	
4,6-Dinitro-o-Cresol	0	0		0	2	2.0	591	
2,4-Dinitrophenol	0	0		0	10	10.0	2,954	
2-Nitrophenol	0	0		0	N/A	N/A	N/A	
4-Nitrophenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	N/A	N/A	N/A	
Acenaphthene	0	0		0	70	70.0	20,676	
Anthracene	0	0		0	300	300	88,610	
Benzidine	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	
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	59,073	
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	29.5	
2-Chloronaphthalene	0	0		0	800	800	236,293	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	1,000	1,000	295,366	
1,3-Dichlorobenzene	0	0		0	7	7.0	2,068	
1,4-Dichlorobenzene	0	0		0	300	300	88,610	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	600	600	177,220	
Dimethyl Phthalate	0	0		0	2,000	2,000	590,733	
Di-n-Butyl Phthalate	0	0		0	20	20.0	5,907	
2,4-Dinitrotoluene	0	0		0	N/A	N/A	N/A	
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	5,907	
Fluorene	0	0		0	50	50.0	14,768	
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	1,181	
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	10,042	
Naphthalene	0	0		0	N/A	N/A	N/A	
Nitrobenzene	0	0		0	10	10.0	2,954	
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	5,907	
1,2,4-Trichlorobenzene	0	0		0	0.07	0.07	20.7	
Aldrin	0	0		0	N/A	N/A	N/A	
alpha-BHC	0	0		0	N/A	N/A	N/A	
beta-BHC	0	0		0	N/A	N/A	N/A	
gamma-BHC	0	0		0	4.2	4.2	1,241	
Chlordane	0	0		0	N/A	N/A	N/A	
4,4-DDT	0	0		0	N/A	N/A	N/A	
4,4-DDE	0	0		0	N/A	N/A	N/A	
4,4-DDD	0	0		0	N/A	N/A	N/A	
Dieldrin	0	0		0	N/A	N/A	N/A	
alpha-Endosulfan	0	0		0	20	20.0	5,907	
beta-Endosulfan	0	0		0	20	20.0	5,907	
Endosulfan Sulfate	0	0		0	20	20.0	5,907	
Endrin	0	0		0	0.03	0.03	8.86	
Endrin Aldehyde	0	0		0	1	1.0	295	
Heptachlor	0	0		0	N/A	N/A	N/A	
Heptachlor Epoxide	0	0		0	N/A	N/A	N/A	
PCBs, Total	0	0		0	N/A	N/A	N/A	

CRL CCT (min): 12.215 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	
Acrolein	0	0		0	N/A	N/A	N/A	
Acrylamide	0	0		0	0.07	0.07	128	
Acrylonitrile	0	0		0	0.06	0.06	110	
Benzene	0	0		0	0.58	0.58	1,061	
Bromoform	0	0		0	7	7.0	12,806	
Carbon Tetrachloride	0	0		0	0.4	0.4	732	
Chlorobenzene	0	0		0	N/A	N/A	N/A	
Chlorodibromomethane	0	0		0	0.8	0.8	1,464	
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	1,738	
1,2-Dichloroethane	0	0		0	9.9	9.9	18,112	
1,1-Dichloroethylene	0	0		0	N/A	N/A	N/A	
1,2-Dichloropropane	0	0		0	0.9	0.9	1,647	
1,3-Dichloropropylene	0	0		0	0.27	0.27	494	
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	36,589	
1,1,2,2-Tetrachloroethane	0	0		0	0.2	0.2	366	
Tetrachloroethylene	0	0		0	10	10.0	18,294	
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	1,006	
Trichloroethylene	0	0		0	0.6	0.6	1,098	
Vinyl Chloride	0	0		0	0.02	0.02	36.6	
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	
2,4,6-Trichlorophenol	0	0		0	1.5	1.5	2,744	
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	0.18	
Benzo(a)Anthracene	0	0		0	0.001	0.001	1.83	
Benzo(a)Pyrene	0	0		0	0.0001	0.0001	0.18	
Benzo(k)Fluoranthene	0	0		0	0.01	0.01	18.3	
Bis(2-Chloroethyl)Ether	0	0		0	0.03	0.03	54.9	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	0.32	0.32	585	
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	220	
Dibenzo(a,h)Anthrancene	0	0		0	0.0001	0.0001	0.18	
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	91.5	
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	91.5	
2,6-Dinitrotoluene	0	0		0	0.05	0.05	91.5	
1,2-Diphenylhydrazine	0	0		0	0.03	0.03	54.9	
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	0.15	
Hexachlorobutadiene	0	0		0	0.01	0.01	18.3	
Hexachlorocyclopentadiene	0	0		0	N/A	N/A	N/A	

Hexachloroethane	0	0		0	0.1	0.1	183	
Indeno(1,2,3-cd)Pyrene	0	0		0	0.001	0.001	1.83	
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	1.28	
n-Nitrosodi-n-Propylamine	0	0		0	0.005	0.005	9.15	
n-Nitrosodiphenylamine	0	0		0	3.3	3.3	6,037	
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	
Aldrin	0	0		0	0.0000008	8.00E-07	0.001	
alpha-BHC	0	0		0	0.0004	0.0004	0.73	
beta-BHC	0	0		0	0.008	0.008	14.6	
gamma-BHC	0	0		0	N/A	N/A	N/A	
Chlordane	0	0		0	0.0003	0.0003	0.55	
4,4-DDT	0	0		0	0.00003	0.00003	0.055	
4,4-DDE	0	0		0	0.00002	0.00002	0.037	
4,4-DDD	0	0		0	0.0001	0.0001	0.18	
Dieldrin	0	0		0	0.000001	0.000001	0.002	
alpha-Endosulfan	0	0		0	N/A	N/A	N/A	
beta-Endosulfan	0	0		0	N/A	N/A	N/A	
Endosulfan Sulfate	0	0		0	N/A	N/A	N/A	
Endrin	0	0		0	N/A	N/A	N/A	
Endrin Aldehyde	0	0		0	N/A	N/A	N/A	
Heptachlor	0	0		0	0.000006	0.000006	0.011	
Heptachlor Epoxide	0	0		0	0.00003	0.00003	0.055	
PCBs, Total	0	0		0	0.000064	0.00006	0.12	

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

☑ ***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	86,632	µg/L	Discharge Conc ≤ 10% WQBEL
Total Antimony	1,654	µg/L	Discharge Conc ≤ 10% WQBEL
Total Arsenic	2,954	µg/L	Discharge Conc ≤ 10% WQBEL
Total Barium	708,879	µg/L	Discharge Conc ≤ 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Boron	472,586	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cadmium	79.9	µg/L	Discharge Conc ≤ 10% WQBEL
Total Chromium (III)	25,455	µg/L	Discharge Conc ≤ 10% WQBEL
Hexavalent Chromium	1,882	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cobalt	5,612	µg/L	Discharge Conc ≤ 10% WQBEL
Total Copper	1,617	µg/L	Discharge Conc ≤ 10% WQBEL
Dissolved Iron	88,610	µg/L	Discharge Conc ≤ 10% WQBEL
Total Iron	443,049	µg/L	Discharge Conc ≤ 10% WQBEL
Total Lead	940	µg/L	Discharge Conc ≤ 10% WQBEL
Total Manganese	295,366	µg/L	Discharge Conc ≤ 10% WQBEL
Total Mercury	14.8	µg/L	Discharge Conc ≤ 10% WQBEL
Total Nickel	15,407	µg/L	Discharge Conc ≤ 10% WQBEL
Total Phenols (Phenolics) (PWS)		µg/L	PWS Not Applicable
Total Selenium	1,474	µg/L	Discharge Conc ≤ 10% WQBEL
Total Silver	437	µg/L	Discharge Conc ≤ 10% WQBEL
Total Thallium	70.9	µg/L	Discharge Conc < TQL
Total Zinc	13,840	µg/L	Discharge Conc ≤ 10% WQBEL
Total Molybdenum	N/A	N/A	No WQS
Acrolein	347	µg/L	Discharge Conc < TQL
Acrylamide	128	µg/L	Discharge Conc ≤ 25% WQBEL
Acrylonitrile	110	µg/L	Discharge Conc < TQL

Benzene	1,061	µg/L	Discharge Conc ≤ 25% WQBEL
Bromoform	12,806	µg/L	Discharge Conc ≤ 25% WQBEL
Carbon Tetrachloride	732	µg/L	Discharge Conc ≤ 25% WQBEL
Chlorobenzene	29,537	µg/L	Discharge Conc ≤ 25% WQBEL
Chlorodibromomethane	1,464	µg/L	Discharge Conc ≤ 25% WQBEL
Chloroethane	N/A	N/A	No WQS
2-Chloroethyl Vinyl Ether	1,033,782	µg/L	Discharge Conc < TQL
Chloroform	1,684	µg/L	Discharge Conc ≤ 25% WQBEL
Dichlorobromomethane	1,738	µg/L	Discharge Conc ≤ 25% WQBEL
1,1-Dichloroethane	N/A	N/A	No WQS
1,2-Dichloroethane	18,112	µg/L	Discharge Conc ≤ 25% WQBEL
1,1-Dichloroethylene	9,747	µg/L	Discharge Conc ≤ 25% WQBEL
1,2-Dichloropropane	1,647	µg/L	Discharge Conc ≤ 25% WQBEL
1,3-Dichloropropylene	494	µg/L	Discharge Conc ≤ 25% WQBEL
1,4-Dioxane	N/A	N/A	No WQS
Ethylbenzene	20,085	µg/L	Discharge Conc ≤ 25% WQBEL
Methyl Bromide	29,537	µg/L	Discharge Conc ≤ 25% WQBEL
Methyl Chloride	1,624,514	µg/L	Discharge Conc ≤ 25% WQBEL
Methylene Chloride	36,589	µg/L	Discharge Conc ≤ 25% WQBEL
1,1,2,2-Tetrachloroethane	366	µg/L	Discharge Conc ≤ 25% WQBEL
Tetrachloroethylene	18,294	µg/L	Discharge Conc ≤ 25% WQBEL
Toluene	16,836	µg/L	Discharge Conc ≤ 25% WQBEL
1,2-trans-Dichloroethylene	29,537	µg/L	Discharge Conc ≤ 25% WQBEL
1,1,1-Trichloroethane	180,173	µg/L	Discharge Conc ≤ 25% WQBEL
1,1,2-Trichloroethane	1,006	µg/L	Discharge Conc ≤ 25% WQBEL
Trichloroethylene	1,098	µg/L	Discharge Conc ≤ 25% WQBEL
Vinyl Chloride	36.6	µg/L	Discharge Conc ≤ 25% WQBEL
2-Chlorophenol	8,861	µg/L	Discharge Conc < TQL
2,4-Dichlorophenol	2,954	µg/L	Discharge Conc < TQL
2,4-Dimethylphenol	29,537	µg/L	Discharge Conc < TQL
4,6-Dinitro-o-Cresol	591	µg/L	Discharge Conc < TQL
2,4-Dinitrophenol	2,954	µg/L	Discharge Conc < TQL
2-Nitrophenol	472,586	µg/L	Discharge Conc < TQL
4-Nitrophenol	138,822	µg/L	Discharge Conc < TQL
2,4,6-Trichlorophenol	2,744	µg/L	Discharge Conc < TQL
Acenaphthene	5,021	µg/L	Discharge Conc < TQL
Acenaphthylene	N/A	N/A	No WQS
Anthracene	88,610	µg/L	Discharge Conc < TQL
Benzidine	0.18	µg/L	Discharge Conc < TQL
Benzo(a)Anthracene	1.83	µg/L	Discharge Conc < TQL
Benzo(a)Pyrene	0.18	µg/L	Discharge Conc < TQL
Benzo(ghi)Perylene	N/A	N/A	No WQS
Benzo(k)Fluoranthene	18.3	µg/L	Discharge Conc < TQL
Bis(2-Chloroethoxy)Methane	N/A	N/A	No WQS
Bis(2-Chloroethyl)Ether	54.9	µg/L	Discharge Conc < TQL
Bis(2-Chloroisopropyl)Ether	59,073	µg/L	Discharge Conc < TQL
Bis(2-Ethylhexyl)Phthalate	585	µg/L	Discharge Conc < TQL

4-Bromophenyl Phenyl Ether	15,950	µg/L	Discharge Conc < TQL
Butyl Benzyl Phthalate	29.5	µg/L	Discharge Conc < TQL
2-Chloronaphthalene	236,293	µg/L	Discharge Conc < TQL
4-Chlorophenyl Phenyl Ether	N/A	N/A	No WQS
Chrysene	220	µg/L	Discharge Conc < TQL
Dibenzo(a,h)Anthrancene	0.18	µg/L	Discharge Conc < TQL
1,2-Dichlorobenzene	47,259	µg/L	Discharge Conc < TQL
1,3-Dichlorobenzene	2,068	µg/L	Discharge Conc < TQL
1,4-Dichlorobenzene	44,305	µg/L	Discharge Conc < TQL
3,3-Dichlorobenzidine	91.5	µg/L	Discharge Conc < TQL
Diethyl Phthalate	177,220	µg/L	Discharge Conc < TQL
Dimethyl Phthalate	147,683	µg/L	Discharge Conc < TQL
Di-n-Butyl Phthalate	5,907	µg/L	Discharge Conc < TQL
2,4-Dinitrotoluene	91.5	µg/L	Discharge Conc < TQL
2,6-Dinitrotoluene	91.5	µg/L	Discharge Conc < TQL
Di-n-Octyl Phthalate	N/A	N/A	No WQS
1,2-Diphenylhydrazine	54.9	µg/L	Discharge Conc < TQL
Fluoranthene	5,907	µg/L	Discharge Conc < TQL
Fluorene	14,768	µg/L	Discharge Conc < TQL
Hexachlorobenzene	0.15	µg/L	Discharge Conc < TQL
Hexachlorobutadiene	18.3	µg/L	Discharge Conc < TQL
Hexachlorocyclopentadiene	295	µg/L	Discharge Conc < TQL
Hexachloroethane	183	µg/L	Discharge Conc < TQL
Indeno(1,2,3-cd)Pyrene	1.83	µg/L	Discharge Conc < TQL
Isophorone	10,042	µg/L	Discharge Conc < TQL
Naphthalene	12,701	µg/L	Discharge Conc < TQL
Nitrobenzene	2,954	µg/L	Discharge Conc < TQL
n-Nitrosodimethylamine	1.28	µg/L	Discharge Conc < TQL
n-Nitrosodi-n-Propylamine	9.15	µg/L	Discharge Conc < TQL
n-Nitrosodiphenylamine	6,037	µg/L	Discharge Conc < TQL
Phenanthrene	295	µg/L	Discharge Conc < TQL
Pyrene	5,907	µg/L	Discharge Conc < TQL
1,2,4-Trichlorobenzene	20.7	µg/L	Discharge Conc < TQL
Aldrin	0.001	µg/L	Discharge Conc < TQL
alpha-BHC	0.73	µg/L	Discharge Conc < TQL
beta-BHC	14.6	µg/L	Discharge Conc < TQL
gamma-BHC	110	µg/L	Discharge Conc < TQL
delta BHC	N/A	N/A	No WQS
Chlordane	0.55	µg/L	Discharge Conc < TQL
4,4-DDT	0.055	µg/L	Discharge Conc < TQL
4,4-DDE	0.037	µg/L	Discharge Conc < TQL
4,4-DDD	0.18	µg/L	Discharge Conc < TQL
Dieldrin	0.002	µg/L	Discharge Conc < TQL
alpha-Endosulfan	16.5	µg/L	Discharge Conc < TQL
beta-Endosulfan	16.5	µg/L	Discharge Conc < TQL
Endosulfan Sulfate	5,907	µg/L	Discharge Conc < TQL
Endrin	8.86	µg/L	Discharge Conc < TQL

Endrin Aldehyde	295	µg/L	Discharge Conc < TQL
Heptachlor	0.011	µg/L	Discharge Conc < TQL
Heptachlor Epoxide	0.055	µg/L	Discharge Conc < TQL
PCB-1016	N/A	N/A	No WQS
PCB-1221	N/A	N/A	No WQS
PCB-1232	N/A	N/A	No WQS
PCB-1242	N/A	N/A	No WQS
PCB-1248	N/A	N/A	No WQS
PCB-1254	N/A	N/A	No WQS
PCB-1260	N/A	N/A	No WQS
PCBs, Total	0.12	µg/L	Discharge Conc < TQL