Pennsylvania Department of Environmental Protection

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0025968**
Facility Type	**Municipal**	APS ID	**801946**
Major / Minor	**Major**	Authorization ID	**1274845**

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Aliquippa City Municipal Water Authority Beaver County**	Facility Name	**Aliquippa STP**
Applicant Address	160 Hopewell Avenue	Facility Address	160 Hopewell Avenue
	Aliquippa, PA 15001-3545		Aliquippa, PA 15001-3545
Applicant Contact	Robert Bible	Facility Contact	Same as applicant
Applicant Phone	(724) 375-5525	Facility Phone	Same as applicant
Client ID	66853	Site ID	254797
Ch 94 Load Status	Existing Hydraulic Overload	Municipality	Aliquippa City
Connection Status		County	Beaver
Date Application Received	May 28, 2019	EPA Waived?	No
Date Application Accepted		If No, Reason	Major Facility

Purpose of Application: NPDES Permit Renewal

Summary of Review

The 30 day comment period ended with comments received.

Comment Received from the EPA: There appears to be typo in the fact sheet for the ammonia-nitrogen monitoring frequency. The fact sheet (page 13) states that a weekly monitoring frequency for ammonia-nitrogen will again be imposed. However, both the draft and current permit impose 2/week monitoring frequency. In addition, the "Proposed Effluent Limitations and Monitoring Requirements" table of the fact sheet (page 19) shows 2/week monitoring for ammonia-nitrogen. Please revise the statement on page 13 fact sheet for consistency with the explanation provided and the corresponding permit documents (40 CFR §124.56(a)).

DEP Response: The wording in the statement on page 13 was incorrect. Since the table shows the correct monitoring frequency no changes need to be made to the re-draft permit

In response to the draft permit issuance, the permittee elected to collect additional sampling as a response to the new toxic pollutants being imposed in the draft permit.

The pollutants listed in the draft permit that were identified as potentially requiring WQBELs or requiring monitoring were Cadmium, Mercury, Benzidine, Benzo(a)Anthracene, Benzo(a)Pyrene, 3,4-Benzofluoranthene, Benzo(k)Fluoranthene, Chrysene, Dibenzo(a, h)Anthrancene, Hexachlorobenzene, Hexachlorobutadiene, Indeno(1,2,3-cd)pyrene, N-Nitrosodimethylamine, N-Nitrosodi-N-propylamine

Sampling was collected from June 17, 2025 to August 12, 2025. The results and comments were reviewed by the DEP. The comments from the permittee, the DEPs responses, and the new TMS results are listed below.

Approve	Deny	Signatures	Date
X		Jordan Coldsmith / Environmental Engineering Specialist	January 30, 2026
X		Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineering Manager	April 6, 2026

Summary of Review

MWAA Comment: Analysis results for Cadmium, Mercury, Benzo(k)fluoranthene, Chrysene, and N-Nitrosodi-N-Propylamine for all eight (8) sampling events were "non-detect" and well below the average monthly, daily maximum and instantaneous maximum effluent limits contained within Draft NPDES Permit No. PA0025968. MWAA respectfully requests that these pollutants, except Mercury, be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

DEP Response: A limit/monitoring recommendation was made by the TMS Model and a pre-draft survey letter was sent out. The applicant chose to resample and provided 8 additional samples. Upon review DEP determined that errors were made in application reporting tables. The TMS Model was updated based upon revised application data and additional sampling data provided in the Pre-Draft Survey Response. The revised modeling showed all the sample results for Cadmium were ND at or below the DEP recommended TQL. All sample results for Benzo(k)fluoranthene, Chrysene, and N-Nitrosodi-N-Propylamine were ND at or below the DEP recommended TQL with sample for each pollutant being ND at an MDL/RL of 5.0 ug/L. RP has not been demonstrated, and no limits/monitoring will be imposed for these pollutants. These pollutants will be re-evaluated during the next permit renewal cycle.

MWAA Comment: Analysis results for Benzidine for seven (7) of the eight (8) sampling events were "non-detect"; one (1) sampling result was identified as "R2 – Continuing Calibration Verification (CCV) was outside established control limits failing low". The laboratory detection limit for Benzidine was 0.25 µg/l; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 0.2 µg/L. The laboratory detection limit is slightly higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Benzidine be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

DEP Response: Benzidine: There were reporting errors contained in the application Pollutant Group 3 Table. As a result of these errors, a limit/monitoring recommendation was made by the TMS Model and a pre-draft survey letter was sent out. The applicant chose to resample and provided 8 additional samples. All of the sample results were ND at or below the DEP recommended TQL with one exception being ND at an MDL/RL of 5.0 ug/L. The TMS Model was updated based upon revised application data and additional sampling data provided in the Pre-Draft Survey Response. RP has not been demonstrated, and no limits/monitoring will be imposed for these pollutants. This pollutant will be re-evaluated during the next permit renewal cycle.

MWAA Comment: Analysis results for Benzo(a)anthracene, 3,4-Benzofluoranthene and Indeno(1,2,3-cd)pyrene for all eight (8) sampling events were "non-detect". The laboratory detection limit for Benzo(a)anthracene, 3,4-Benzofluoranthene and Indeno(1,2,3-cd)pyrene was 0.25 µg/l for seven (7) samples and 5.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 2.3 µg/L. The laboratory detection limit for one (1) sampling event was slightly higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Benzo(a)anthracene, 3,4-Benzofluoranthene and Indeno(1,2,3-cd)pyrene be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

DEP Response: A limit/monitoring recommendation was made by the TMS Model and a pre-draft survey letter was sent out. The applicant chose to resample and provided 8 additional samples. Upon review DEP determined that errors were made in application reporting tables. The TMS Model was updated based upon revised application data and additional sampling data provided in the Pre-Draft Survey Response. The revised modeling showed all sample results for Benzo(a)anthracene, 3,4-Benzofluoranthene and Indeno(1,2,3-cd)pyrene were ND at or below the DEP recommended TQL with sample for each pollutant being ND at an MDL/RL of 5.0 ug/L. RP has not been demonstrated, and no limits/monitoring will be imposed for these pollutants. These pollutants will be re-evaluated during the next permit renewal cycle.

MWAA Comment: Analysis results for Beno(a)pyrene and Dibenzo(a,h)anthracene for all eight (8) sampling events were "non-detect". The laboratory detection limit for Beno(a)pyrene and Dibenzo(a,h)anthracene was 0.25 µg/l for seven (7) samples and 5.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 0.23 µg/L. The laboratory detection limit for one sampling event was higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Beno(a)pyrene and Dibenzo(a,h)anthracene be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

Summary of Review

DEP Response: A limit/monitoring recommendation was made by the TMS Model and a pre-draft survey letter was sent out. The applicant chose to resample and provided 8 additional samples. Upon review, DEP determined that errors were made in application reporting tables. The TMS Model was updated based upon revised application data and additional sampling data provided in the Pre-Draft Survey Response the revised modeling showed all sample results for Beno(a)pyrene and Dibenzo(a,h)anthracene were ND at or below the DEP recommended TQL with sample for each pollutant being ND at an MDL/RL of 5.0 ug/L. RP has not been demonstrated, and no limits/monitoring will be imposed for these pollutants. These pollutants will be re-evaluated during the next permit renewal cycle.

MWAA Comment: Analysis results for Hexachlorobenzene for all eight (8) sampling events were "non-detect". The laboratory detection limit for Hexachlorobenzene was 0.25 µg/l for seven (7) samples and 5.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 0.00008 µg/L. The laboratory detection limit is higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Hexachlorobenzene be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

DEP Response: Hexachlorobenzene: There were reporting errors contained in the application Pollutant Group 5 Table. As a result of these errors, a limit/monitoring recommendation was made by the TMS Model and a pre-draft survey letter was sent out. The applicant chose to resample and provided 8 additional samples. All of the sample results were ND at or below the DEP recommended TQL with one exception being ND at an MDL/RL of 5.0 ug/L. The TMS Model was updated based upon revised application data and additional sampling data provided in the Pre-Draft Survey Response. RP has not been demonstrated, and no limits/monitoring will be imposed for these pollutants. These pollutants will be re-evaluated during the next permit renewal cycle.

MWAA Comment: Analysis results for Hexachlorobutadiene for all eight (8) sampling events were "non-detect". The laboratory detection limit for Hexachlorobutadiene was 0.50 µg/l for seven (7) samples and 10.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 0.01 µg/L. The laboratory detection limit is higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Hexachlorobutadiene be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

DEP Response: Hexachlorobutadiene: There were reporting errors contained in the application Pollutant Group 5 Table. As a result of these errors, a limit/monitoring recommendation was made by the TMS Model and a pre-draft survey letter was sent out. The applicant chose to resample and provided 8 additional samples. All of the sample results were ND at or below the DEP recommended TQL with one exception being ND at an MDL/RL of 10.0 ug/L. The TMS Model was updated based upon revised application data and additional sampling data provided in the Pre-Draft Survey Response. RP has not been demonstrated, and no limits/monitoring will be imposed for these pollutants. These pollutants will be re-evaluated during the next permit renewal cycle.

MWAA Comment: Analysis results for N-Nitrosodimethylamine for all eight (8) sampling events were "non-detect". The laboratory detection limit for N-Nitrosodimethylamine was 0.25 µg/l for seven (7) samples and 5.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 1.59 µg/L. The laboratory detection limit is slightly higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that NNitrosodimethylamine be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

DEP Response: N-Nitrosodimethylamine: There were reporting errors contained in the application Pollutant Group 5 Table. As a result of these errors, a limit/monitoring recommendation was made by the TMS Model and a pre-draft survey letter was sent out. The applicant chose to resample and provided 8 additional samples. All of the sample results were ND at or below the DEP recommended TQL with one exception being ND at an MDL/RL of 5.0 ug/L. The TMS Model was updated based upon revised application data and additional sampling data provided in the Pre-Draft Survey Response. RP has not been demonstrated, and no limits/monitoring will be imposed for these pollutants. These pollutants will be re-evaluated during the next permit renewal cycle.

Summary of Review
MWAA Comment: It is acknowledged that effluent Mercury sampling and analysis is being added by PaDEP to all NPDES Permits with discharges to the Ohio River. MWAA is respectfully requesting that the sampling/analysis frequency be reduced from weekly to quarterly. **DEP Response:** As previously stated that the evaluation with a mixing zone in the original TMS spreadsheet showed that water quality -based limits for mercury are not necessary. It is recommended that Aliquippa sample for mercury using EPA method 1631 over the next permit cycle to show its progress towards not using a mixing zone to meet ORSANCO's standards. Mercury sampling frequency will be reduced to 1/quarter for the permit cycle. This sampling frequency will be re-evaluated during the next permit renewal cycle. Permit Redraft is recommended.

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	Daily Maximum	Average Monthly	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	709	1078 Wkly Avg	XXX	25	38	50	2/week	24-Hr Composite
BOD5 Raw Sewage Influent	Report	Report	XXX	Report	XXX	XXX	2/week	24-Hr Composite
TSS	851	1276 Wkly Avg	XXX	30	45	60	2/week	24-Hr Composite
TSS Raw Sewage Influent	Report	Report	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Fecal Coliform (No./100 ml) Nov 1 - Mar 31	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/week	Grab
Fecal Coliform (No./100 ml) Apr 1 - Oct 31	XXX	XXX	XXX	200 Geo Mean	XXX	400	2/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/month	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	24-Hr Composite
Ammonia-Nitrogen	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite

Outfall 001 , 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	Daily Maximum	Average Monthly	Average Monthly	Weekly Average	Instant. Maximum		
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	24-Hr Composite
Total Mercury (ug/L)	Report	Report	Report	Report Daily Max	XXX	XXX	1/quarter	24-Hr Composite
PFOA (ng/L)	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
PFOS (ng/L)	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
PFBS (ng/L)	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
HFPO-DA (ng/L)	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab

Compliance Sampling Location:

Other Comments:

Coldsmith, Jordan

From: Fulton, Jennifer <Fulton.Jennifer@epa.gov>
Sent: Tuesday, June 24, 2025 10:52 AM
To: Coldsmith, Jordan
Cc: Iasmin, Mahbuba; Furjanic, Sean; Hawley, Harmonie; Yachera, Kelly; Hales, Dana; Moncavage, Carissa
Subject: [External] Aliquippa STP (PA0025968)

Follow Up Flag: Follow up
Flag Status: Flagged

ATTENTION: *This email message is from an external sender. Do not open links or attachments from unknown senders. To report suspicious email, use the Report Phishing button in Outlook.*

Hello Jordan,

According to our Memorandum of Agreement, the Environmental Protection Agency (EPA) Region III has received the draft National Pollutant Discharge Elimination System (NPDES) permit for:

Aliquippa STP
NPDES Number: PA0025968
EPA Received: 5/29/2025
30-day response due date: 6/28/2025

This is a major permit that discharges to the Ohio River. EPA has chosen to perform a limited review of the draft permit based on any available wasteload allocation requirements of the approved Ohio River TMDL for PCB and Chlordane, Whole Effluent Toxicity (WET), and the federal effluent requirements (secondary treatment) at 40 CFR §133. EPA has completed its review and offers the following comment:

1. There appears to be typo in the fact sheet for the ammonia-nitrogen monitoring frequency. The fact sheet (page 13) states that a weekly monitoring frequency for ammonia-nitrogen will again be imposed. However, both the draft and current permit impose 2/week monitoring frequency. In addition, the "Proposed Effluent Limitations and Monitoring Requirements" table of the fact sheet (page 19) shows 2/week monitoring for ammonia-nitrogen. Please revise the statement on page 13 fact sheet for consistency with the explanation provided and the corresponding permit documents (40 CFR §124.56(a)).

Please address the above and provide us with any changes to the draft permit and/or fact sheet, if necessary. If you have any questions, please contact Kelly Yachera of my staff via telephone at 215-814-5743 or via electronic mail at yachera.kelly@epa.gov.

Thank you,
Jen Fulton

Jennifer Fulton
Chief, Clean Water Branch
EPA Region 3
Phone: 304-234-0248
Email: fulton.jennifer@epa.gov

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September 18, 2025

S. O. No. 474-035

VIA EMAIL ONLY
(jcoldsmith@pa.gov)

Ms. Jordan T. Coldsmith
Environmental Engineering Specialist
Department of Environmental Protection
Clean Water Program
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222

Subject: **Municipal Water Authority of Aliquippa (MWAA)**
Beaver County, Pennsylvania
Draft NPDES Permit No. PA0025968
Public Comment

Dear Ms. Coldsmith:

As requested, and on behalf of the Municipal Water Authority of Aliquippa (MWAA), this letter follows issuance of Draft NPDES Permit No. PA0025968 by the Pennsylvania Department of Environmental Protection (PaDEP) by email on May 27, 2025, and subsequent email of June 11, 2025, between representatives of PaDEP and LSSE, Inc. (LSSE). MWAA appreciates PaDEP's efforts to understand their concerns regarding the challenges presented by the proposed new pollutants contained within Draft NPDES Permit No. PA0025968 for discharge of treated wastewater to the Ohio River.

As discussed, MWAA has completed follow-up sampling to gather additional data as the basis to provide comments regarding the proposed additional pollutants contained within Draft NPDES Permit No. PA0025968. Attached please find a summary of analysis results from 24-hour composite samples obtained at the Sewage Treatment Plant Effluent Outfall 001 from June 17, 2025 to August 12, 2025. MWAA collected 24-hour composite samples; CWM Environmental picked up samples for analysis; a total of eight (8) sampling events occurred during the referenced timeframe. Following are specific comments regarding the analysis results as compared to the proposed effluent permit limits contained within Draft NPDES Permit No. PA0025968:

- Analysis results for Cadmium, Mercury, Benzo(k)fluoranthene, Chrysene and N-Nitrosodi-N-Propylamine for all eight (8) sampling events were "non-detect" and well below the average monthly, daily maximum and instantaneous maximum effluent limits contained within Draft NPDES Permit No. PA0025968. MWAA respectfully requests that these pollutants, except Mercury, be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

- Analysis results for Benzidine for seven (7) of the eight (8) sampling events were "non-detect"; one (1) sampling result was identified as "R2 – Continuing Calibration Verification (CCV) was outside established control limits failing low". The laboratory detection limit for Benzidine was 0.25 µg/l; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 0.2 µg/L. The laboratory detection limit is slightly higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Benzidine be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

- Analysis results for Benzo(a)anthracene, 3,4-Benzofluoranthene and Indeno(1,2,3-cd)pyrene for all eight (8) sampling events were "non-detect". The laboratory detection limit for Benzo(a)anthracene, 3,4-Benzofluoranthene and Indeno(1,2,3-cd)pyrene was 0.25 µg/l for seven (7) samples and 5.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 2.3 µg/L. The laboratory detection limit for one (1) sampling event was slightly higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Benzo(a)anthracene, 3,4-Benzofluoranthene and Indeno(1,2,3-cd)pyrene be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

- Analysis results for Beno(a)pyrene and Dibenzo(a,h)anthracene for all eight (8) sampling events were "non-detect". The laboratory detection limit for Beno(a)pyrene and Dibenzo(a,h)anthracene was 0.25 µg/l for seven (7) samples and 5.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 0.23 µg/L. The laboratory detection limit for one sampling event was higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Beno(a)pyrene and Dibenzo(a,h)anthracene be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

- Analysis results for Hexachlorobenzene for all eight (8) sampling events were "non-detect". The laboratory detection limit for Hexachlorobenzene was 0.25 µg/l for seven (7) samples and 5.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 0.00008 µg/L. The laboratory detection limit is higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Hexachlorobenzene be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

- Analysis results for Hexachlorobutadiene for all eight (8) sampling events were "non-detect". The laboratory detection limit for Hexachlorobutadiene was 0.50 µg/l for seven (7) samples and 10.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 0.01 µg/L. The laboratory detection limit is higher than the average monthly concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that Hexachlorobutadiene be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

- Analysis results for N-Nitrosodimethylamine for all eight (8) sampling events were "non-detect". The laboratory detection limit for N-Nitrosodimethylamine was 0.25 µg/l for seven (7) samples and 5.0 µg/l for one (1) sample; and the proposed average monthly concentration listed in Draft NPDES Permit No. PA0025968 is 1.59 µg/L. The laboratory detection limit is slightly higher than the average monthly

Ms. Jordan T. Coldsmith
Environmental Engineering Specialist
Department of Environmental Protection
Clean Water Program
September 18, 2025
Page 3

concentration listed in Draft NPDES Permit No. PA0025968. MWAA respectfully requests that N-Nitrosodimethylamine be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968.

Based upon the analysis results from 24-hour composite samples obtained at the Sewage Treatment Plant Effluent Outfall 001 from June 17, 2025 to August 12, 2025; MWAA respectfully requests that the following pollutants be removed from Draft NPDES Permit No. PA0025968 and not included in the Final NPDES Permit No. PA0025968: Cadmium, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Hexachlorobenzene, Hexachlorobutadiene, 3,4-Benzofluoranthene, Indeno(1,2,3-cd)Pyrene, N-Nitrosodimethylamine, and N-Nitrosodi-N-propylamine.

It is acknowledged that effluent Mercury sampling and analysis is being added by PaDEP to all NPDES Permits with discharges to the Ohio River. MWAA is respectfully requesting that the sampling/analysis frequency be reduced from weekly to quarterly.

Thank you for your consideration of this request. MWAA is committed to efficient and financially prudent operation and maintenance of the wastewater collection and treatment system while maintaining compliance with all PaDEP and EPA requirements.

Should you have any questions, please contact Marie S. Hartman, P.E. directly (Ext. 246).

Sincerely,

Ned Mitrovich, P.E.

Marie S. Hartman, P.E.

NM/MSH:nwg

Attachment

cc/att: Robert J. Bible, P.E., General Manager - MWAA (robertbible@aliquippawater.com)
Philip J. Davis – LSSE (pdavis@lsse.com)
Danuel O'Neil – LSSE (doneil@lsse.com)

MWAA NPDES PERMIT RENEWAL
EFFLUENT SAMPLING RESULTS

Parameter	Cadmium	Mercury	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Hexachlorobenzene	Hexachlorobutadiene	3,4-Benzofluoranthene	Indeno(1,2,3-cd)pyrene	N-Nitrosodimethylamine	N-Nitrosodi-N-propylamine
Proposed Effluent Limitations (Avg. Mo., Daily Max., Inst. Max.) in ug/L	149, 233, 373	Report	0.2, 0.31, 0.49	2.3, 3.59, 5.75	0.23, 0.36, 0.57	Report	Report	0.23, 0.36, 0.57	0.00008, 0.0001, 0.0002	0.01, 0.016, 0.025	2.3, 3.59, 5.75	2.3, 3.59, 5.75	1.59, 2.47, 3.97	Report
Sampling Results in ug/L														
6/17/2025	0.300000	0.200000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.500000	0.250000	0.250000	0.250000	0.250000
6/19/2025	1.000000	0.200000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.500000	0.250000	0.250000	0.250000	0.250000
6/24/2025	1.000000	0.200000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.500000	0.250000	0.250000	0.250000	0.250000
7/1/2025	0.300000	0.200000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.500000	0.250000	0.250000	0.250000	0.250000
7/8/2025	0.300000	0.200000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.500000	0.250000	0.250000	0.250000	0.250000
7/17/2025	0.300000	0.200000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	10.000000	5.000000	5.000000	5.000000	5.000000
7/31/2025	0.300000	0.200000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.500000	0.250000	0.250000	0.250000	0.250000
8/12/2025	0.300000	0.200000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.250000	0.500000	0.250000	0.250000	0.250000	0.250000

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Toxics Management Spreadsheet
Version 1.4, May 2023

Discharge Information

Instructions | Discharge | Stream

Facility: **Aliquippa STP** NPDES Permit No.: **PA0025968** Outfall No.: **001**

Evaluation Type: **Major Sewage / Industrial Waste** Wastewater Description: **STP 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
3.4	304	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		888									
	Chloride (PWS)	mg/L		359									
	Bromide	mg/L		0.101									
	Sulfate (PWS)	mg/L		89.6									
	Fluoride (PWS)	mg/L											
Group 2	Total Aluminum	µg/L		110									
	Total Antimony	µg/L		2									
	Total Arsenic	µg/L		1									
	Total Barium	µg/L		72.1									
	Total Beryllium	µg/L		0.06									
	Total Boron	µg/L		273									
	Total Cadmium	µg/L	<	1									
	Total Chromium (III)	µg/L		2									
	Hexavalent Chromium	µg/L		0.84									
	Total Cobalt	µg/L		0.32									
	Total Copper	µg/L		31.1									
	Free Cyanide	µg/L		9									
	Total Cyanide	µg/L		9									
	Dissolved Iron	µg/L		1220									
	Total Iron	µg/L		1480									
	Total Lead	µg/L		1									
	Total Manganese	µg/L		76.2									
	Total Mercury	µg/L	<	0.2									
	Total Nickel	µg/L		3.73									
	Total Phenols (Phenolics) (PWS)	µg/L		2500									
	Total Selenium	µg/L		3									
	Total Silver	µg/L		0.4									
	Total Thallium	µg/L		15									
	Total Zinc	µg/L		23									
	Total Molybdenum	µg/L		3.96									
	Acrolein	µg/L		2									
	Acrylamide	µg/L											
	Acrylonitrile	µg/L		2									
	Benzene	µg/L		0.5									
	Bromoform	µg/L		0.5									

Group 3	Carbon Tetrachloride	µg/L		0.5									
	Chlorobenzene	µg/L		0.5									
	Chlorodibromomethane	µg/L		1.5									
	Chloroethane	µg/L		0.5									
	2-Chloroethyl Vinyl Ether	µg/L		5									
	Chloroform	µg/L		18.5									
	Dichlorobromomethane	µg/L		7.4									
	1,1-Dichloroethane	µg/L		0.5									
	1,2-Dichloroethane	µg/L		0.5									
	1,1-Dichloroethylene	µg/L		0.5									
	1,2-Dichloropropane	µg/L		0.5									
	1,3-Dichloropropylene	µg/L		0.5									
	1,4-Dioxane	µg/L		5									
	Ethylbenzene	µg/L		0.5									
	Methyl Bromide	µg/L		0.5									
	Methyl Chloride	µg/L		0.5									
	Methylene Chloride	µg/L		0.5									
	1,1,2,2-Tetrachloroethane	µg/L		0.5									
	Tetrachloroethylene	µg/L		0.5									
	Toluene	µg/L		0.5									
	1,2-trans-Dichloroethylene	µg/L		0.5									
	1,1,1-Trichloroethane	µg/L		0.5									
	1,1,2-Trichloroethane	µg/L		0.5									
	Trichloroethylene	µg/L		0.5									
	Vinyl Chloride	µg/L		0.5									
Group 4	2-Chlorophenol	µg/L		5									
	2,4-Dichlorophenol	µg/L		5									
	2,4-Dimethylphenol	µg/L		5									
	4,6-Dinitro-o-Cresol	µg/L		10									
	2,4-Dinitrophenol	µg/L		10									
	2-Nitrophenol	µg/L		10									
	4-Nitrophenol	µg/L		5									
	p-Chloro-m-Cresol	µg/L		5									
	Pentachlorophenol	µg/L		10									
	Phenol	µg/L		2.5									
	2,4,6-Trichlorophenol	µg/L		5									
Group 5	Acenaphthene	µg/L		2.5									
	Acenaphthylene	µg/L		2.5									
	Anthracene	µg/L		2.5									
	Benzidine	µg/L	<	5									
	Benzo(a)Anthracene	µg/L	<	2.5									
	Benzo(a)Pyrene	µg/L	<	0.25									
	3,4-Benzofluoranthene	µg/L	<	2.5									
	Benzo(ghi)Perylene	µg/L		2.5									
	Benzo(k)Fluoranthene	µg/L	<	0.25									
	Bis(2-Chloroethoxy)Methane	µg/L		5									
	Bis(2-Chloroethyl)Ether	µg/L		5									
	Bis(2-Chloroisopropyl)Ether	µg/L		5									
	Bis(2-Ethylhexyl)Phthalate	µg/L		5									
	4-Bromophenyl Phenyl Ether	µg/L		5									
	Butyl Benzyl Phthalate	µg/L		5									
	2-Chloronaphthalene	µg/L		5									
	4-Chlorophenyl Phenyl Ether	µg/L		5									
	Chrysene	µg/L	<	0.25									
	Dibenzo(a,h)Anthrancene	µg/L	<	0.25									
	1,2-Dichlorobenzene	µg/L		0.5									
	1,3-Dichlorobenzene	µg/L		0.5									
	1,4-Dichlorobenzene	µg/L		0.5									
	3,3-Dichlorobenzidine	µg/L		5									
	Diethyl Phthalate	µg/L		5									
	Dimethyl Phthalate	µg/L		2.5									
	Di-n-Butyl Phthalate	µg/L		5									
	2,4-Dinitrotoluene	µg/L		5									

	2,6-Dinitrotoluene	µg/L		5										
	Di-n-Octyl Phthalate	µg/L		5										
	1,2-Diphenylhydrazine	µg/L		5										
	Fluoranthene	µg/L		2.5										
	Fluorene	µg/L		2.5										
	Hexachlorobenzene	µg/L	<	5										
	Hexachlorobutadiene	µg/L	<	0.5										
	Hexachlorocyclopentadiene	µg/L		5										
	Hexachloroethane	µg/L		2.5										
	Indeno(1,2,3-cd)Pyrene	µg/L	<	2.5										
	Isophorone	µg/L		5										
	Naphthalene	µg/L		0.5										
	Nitrobenzene	µg/L		5										
	n-Nitrosodimethylamine	µg/L	<	5										
	n-Nitrosodi-n-Propylamine	µg/L	<	5										
	n-Nitrosodiphenylamine	µg/L		5										
	Phenanthrene	µg/L		2.5										
	Pyrene	µg/L		2.5										
	1,2,4-Trichlorobenzene	µg/L		0.5										
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												
	Orsanco Mercury	µg/L		0.00775										

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Stream / Surface Water Information

Aliquippa STP, NPDES Permit No. PA0025968, Outfall 001

Instructions | Discharge | *Stream*

Receiving Surface Water Name: Ohio 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	032317	960.4	682	19600	0.001		Yes
End of Reach 1	032317	959.4	676.72	19610	0.001	0	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	960.4	0.241			75	1350	18	0.198	0.309			100	7		
End of Reach 1	959.4	0.241													

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	960.4														
End of Reach 1	959.4														

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Toxics Management Spreadsheet
Version 1.4, May 2023

Model Results

Aliquippa STP, NPDES Permit No. PA0025968, Outfall 001

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

☑ ***Hydrodynamics***

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

RMI	Stream Flow (cfs)	PWS Withdrawal (cfs)	Net Stream Flow (cfs)	Discharge Analysis Flow (cfs)	Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Travel Time (days)	Complete Mix Time (min)
960.4	4723.60		4723.60	5.26	0.001	18.	1350.	75.	0.198	0.309	1032.095
959.4	4726.01	0.	4726.01								

Q_h

RMI	Stream Flow (cfs)	PWS Withdrawal (cfs)	Net Stream Flow (cfs)	Discharge Analysis Flow (cfs)	Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Travel Time (days)	Complete Mix Time (min)
960.4	12086.58		12086.58	5.26	0.001	27.207	1350.	49.62	0.335	0.182	556.164
959.4	12091.972	0.	12091.97								

☑ ***Wasteload Allocations***

☑ ***AFC*** CCT (min): 15 PMF: 0.121 Analysis Hardness (mg/l): 101.87 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	
Total Aluminum	0	0		0	750	750	81,949	
Total Antimony	0	0		0	1,100	1,100	120,192	
Total Arsenic	0	0		0	340	340	37,150	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	2,294,573	
Total Boron	0	0		0	8,100	8,100	885,050	
Total Cadmium	0	0		0	2.050	2.17	238	Chem Translator of 0.943 applied
Total Chromium (III)	0	0		0	578.461	1,831	200,018	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	16	16.3	1,780	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	10,380	
Total Copper	0	0		0	13.675	14.2	1,557	Chem Translator of 0.96 applied
Free Cyanide	0	0		0	22	22.0	2,404	

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	65.895	83.6	9,134	Chem Translator of 0.788 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	1.400	1.65	180	Chem Translator of 0.85 applied
Total Nickel	0	0		0	475.621	477	52,073	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	3.321	3.91	427	Chem Translator of 0.85 applied
Total Thallium	0	0		0	65	65.0	7,102	
Total Zinc	0	0		0	119.032	122	13,299	Chem Translator of 0.978 applied
Acrolein	0	0		0	3	3.0	328	
Acrylonitrile	0	0		0	650	650	71,023	
Benzene	0	0		0	640	640	69,930	
Bromoform	0	0		0	1,800	1,800	196,678	
Carbon Tetrachloride	0	0		0	2,800	2,800	305,943	
Chlorobenzene	0	0		0	1,200	1,200	131,118	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	18,000	18,000	1,966,777	
Chloroform	0	0		0	1,900	1,900	207,604	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	15,000	15,000	1,638,981	
1,1-Dichloroethylene	0	0		0	7,500	7,500	819,490	
1,2-Dichloropropane	0	0		0	11,000	11,000	1,201,919	
1,3-Dichloropropylene	0	0		0	310	310	33,872	
Ethylbenzene	0	0		0	2,900	2,900	316,870	
Methyl Bromide	0	0		0	550	550	60,096	
Methyl Chloride	0	0		0	28,000	28,000	3,059,431	
Methylene Chloride	0	0		0	12,000	12,000	1,311,185	
1,1,2,2-Tetrachloroethane	0	0		0	1,000	1,000	109,265	
Tetrachloroethylene	0	0		0	700	700	76,486	
Toluene	0	0		0	1,700	1,700	185,751	
1,2-trans-Dichloroethylene	0	0		0	6,800	6,800	743,005	
1,1,1-Trichloroethane	0	0		0	3,000	3,000	327,796	
1,1,2-Trichloroethane	0	0		0	3,400	3,400	371,502	
Trichloroethylene	0	0		0	2,300	2,300	251,310	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	560	560	61,189	
2,4-Dichlorophenol	0	0		0	1,700	1,700	185,751	
2,4-Dimethylphenol	0	0		0	660	660	72,115	
4,6-Dinitro-o-Cresol	0	0		0	80	80.0	8,741	
2,4-Dinitrophenol	0	0		0	660	660	72,115	
2-Nitrophenol	0	0		0	8,000	8,000	874,123	
4-Nitrophenol	0	0		0	2,300	2,300	251,310	
p-Chloro-m-Cresol	0	0		0	160	160	17,482	
Pentachlorophenol	0	0		0	8.723	8.72	953	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	460	460	50,262	

Acenaphthene	0	0		0	83	83.0	9,069	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	300	300	32,780	
Benzo(a)Anthracene	0	0		0	0.5	0.5	54.6	
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	3,277,962	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	4,500	4,500	491,694	
4-Bromophenyl Phenyl Ether	0	0		0	270	270	29,502	
Butyl Benzyl Phthalate	0	0		0	140	140	15,297	
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	89,598	
1,3-Dichlorobenzene	0	0		0	350	350	38,243	
1,4-Dichlorobenzene	0	0		0	730	730	79,764	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	4,000	4,000	437,062	
Dimethyl Phthalate	0	0		0	2,500	2,500	273,163	
Di-n-Butyl Phthalate	0	0		0	110	110	12,019	
2,4-Dinitrotoluene	0	0		0	1,600	1,600	174,825	
2,6-Dinitrotoluene	0	0		0	990	990	108,173	
1,2-Diphenylhydrazine	0	0		0	15	15.0	1,639	
Fluoranthene	0	0		0	200	200	21,853	
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	1,093	
Hexachlorocyclopentadiene	0	0		0	5	5.0	546	
Hexachloroethane	0	0		0	60	60.0	6,556	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	10,000	10,000	1,092,654	
Naphthalene	0	0		0	140	140	15,297	
Nitrobenzene	0	0		0	4,000	4,000	437,062	
n-Nitrosodimethylamine	0	0		0	17,000	17,000	1,857,512	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	300	300	32,780	
Phenanthrene	0	0		0	5	5.0	546	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	130	130	14,205	
Orsanco Mercury	0	0		0	N/A	N/A	N/A	

☑ *CFC* CCT (min): 720 PMF: 0.835 Analysis Hardness (mg/l): 100.27 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	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	220	220	165,239	
Total Arsenic	0	0		0	150	150	112,663	Chem Translator of 1 applied
Total Barium	0	0		0	4,100	4,100	3,079,447	
Total Boron	0	0		0	1,600	1,600	1,201,735	
Total Cadmium	0	0		0	0.246	0.27	204	Chem Translator of 0.909 applied
Total Chromium (III)	0	0		0	74.279	86.4	64,872	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0		0	10	10.4	7,808	Chem Translator of 0.962 applied
Total Cobalt	0	0		0	19	19.0	14,271	
Total Copper	0	0		0	8.977	9.35	7,023	Chem Translator of 0.96 applied
Free Cyanide	0	0		0	5.2	5.2	3,906	
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	1,500	1,500	1,348,585	WQC = 30 day average; PMF = 1
Total Lead	0	0		0	2.524	3.19	2,398	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	680	Chem Translator of 0.85 applied
Total Nickel	0	0		0	52.126	52.3	39,269	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	3,747	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	9,764	
Total Zinc	0	0		0	118.411	120	90,199	Chem Translator of 0.986 applied
Acrolein	0	0		0	3	3.0	2,253	
Acrylonitrile	0	0		0	130	130	97,641	
Benzene	0	0		0	130	130	97,641	
Bromoform	0	0		0	370	370	277,901	
Carbon Tetrachloride	0	0		0	560	560	420,607	
Chlorobenzene	0	0		0	240	240	180,260	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	3,500	3,500	2,628,796	
Chloroform	0	0		0	390	390	292,923	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	3,100	3,100	2,328,362	
1,1-Dichloroethylene	0	0		0	1,500	1,500	1,126,627	
1,2-Dichloropropane	0	0		0	2,200	2,200	1,652,386	
1,3-Dichloropropylene	0	0		0	61	61.0	45,816	
Ethylbenzene	0	0		0	580	580	435,629	
Methyl Bromide	0	0		0	110	110	82,619	
Methyl Chloride	0	0		0	5,500	5,500	4,130,965	
Methylene Chloride	0	0		0	2,400	2,400	1,802,603	
1,1,2,2-Tetrachloroethane	0	0		0	210	210	157,728	
Tetrachloroethylene	0	0		0	140	140	105,152	
Toluene	0	0		0	330	330	247,858	

1,2-trans-Dichloroethylene	0	0		0	1,400	1,400	1,051,518	
1,1,1-Trichloroethane	0	0		0	610	610	458,162	
1,1,2-Trichloroethane	0	0		0	680	680	510,738	
Trichloroethylene	0	0		0	450	450	337,988	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	110	110	82,619	
2,4-Dichlorophenol	0	0		0	340	340	255,369	
2,4-Dimethylphenol	0	0		0	130	130	97,641	
4,6-Dinitro-o-Cresol	0	0		0	16	16.0	12,017	
2,4-Dinitrophenol	0	0		0	130	130	97,641	
2-Nitrophenol	0	0		0	1,600	1,600	1,201,735	
4-Nitrophenol	0	0		0	470	470	353,010	
p-Chloro-m-Cresol	0	0		0	500	500	375,542	
Pentachlorophenol	0	0		0	6.693	6.69	5,027	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	91	91.0	68,349	
Acenaphthene	0	0		0	17	17.0	12,768	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	59	59.0	44,314	
Benzo(a)Anthracene	0	0		0	0.1	0.1	75.1	
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	4,506,508	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	910	910	683,487	
4-Bromophenyl Phenyl Ether	0	0		0	54	54.0	40,559	
Butyl Benzyl Phthalate	0	0		0	35	35.0	26,288	
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	120,174	
1,3-Dichlorobenzene	0	0		0	69	69.0	51,825	
1,4-Dichlorobenzene	0	0		0	150	150	112,663	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	800	800	600,868	
Dimethyl Phthalate	0	0		0	500	500	375,542	
Di-n-Butyl Phthalate	0	0		0	21	21.0	15,773	
2,4-Dinitrotoluene	0	0		0	320	320	240,347	
2,6-Dinitrotoluene	0	0		0	200	200	150,217	
1,2-Diphenylhydrazine	0	0		0	3	3.0	2,253	
Fluoranthene	0	0		0	40	40.0	30,043	
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	1,502	

Hexachlorocyclopentadiene	0	0		0	1	1.0	751	
Hexachloroethane	0	0		0	12	12.0	9,013	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	2,100	2,100	1,577,278	
Naphthalene	0	0		0	43	43.0	32,297	
Nitrobenzene	0	0		0	810	810	608,379	
n-Nitrosodimethylamine	0	0		0	3,400	3,400	2,553,688	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	59	59.0	44,314	
Phenanthrene	0	0		0	1	1.0	751	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	26	26.0	19,528	
Orsanco Mercury	0	0		0	N/A	N/A	N/A	

☑ ***THH*** CCT (min): ###### THH PMF: 0.835 Analysis Hardness (mg/l): N/A Analysis pH: N/A PWS PMF: 0.6566

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	4,206	THH WQC applied at PWS at RMI 959.4
Total Arsenic	0	0		0	10	10.0	7,511	THH WQC applied at PWS at RMI 959.4
Total Barium	0	0		0	1,000	1,000	751,085	THH WQC applied at PWS at RMI 959.4
Total Boron	0	0		0	3,100	3,100	2,328,362	THH WQC applied at PWS at RMI 959.4
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	1,300	1,300	976,410	THH WQC applied at PWS at RMI 959.4
Free Cyanide	0	0		0	4	4.0	3,004	THH WQC applied at PWS at RMI 959.4
Dissolved Iron	0	0		0	300	300	225,325	THH WQC applied at PWS at RMI 959.4
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	751,085	THH WQC applied at PWS at RMI 959.4
Total Mercury	0	0		0	0.012	0.012	9.01	THH WQC applied at PWS at RMI 959.4
Total Nickel	0	0		0	610	610	458,162	THH WQC applied at PWS at RMI 959.4
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	180	THH WQC applied at PWS at RMI 959.4
Total Zinc	0	0		0	7,400	7,400	5,558,026	THH WQC applied at PWS at RMI 959.4
Acrolein	0	0		0	3	3.0	2,253	THH WQC applied at PWS at RMI 959.4
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	75,108	THH WQC applied at PWS at RMI 959.4
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	4,281	THH WQC applied at PWS at RMI 959.4
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	24,786	THH WQC applied at PWS at RMI 959.4
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	51,074	THH WQC applied at PWS at RMI 959.4
Methyl Bromide	0	0		0	47	47.0	35,301	THH WQC applied at PWS at RMI 959.4
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	42,812	THH WQC applied at PWS at RMI 959.4
1,2-trans-Dichloroethylene	0	0		0	100	100.0	75,108	THH WQC applied at PWS at RMI 959.4
1,1,1-Trichloroethane	0	0		0	10,000	10,000	7,510,846	THH WQC applied at PWS at RMI 959.4
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	22,533	THH WQC applied at PWS at RMI 959.4
2,4-Dichlorophenol	0	0		0	10	10.0	7,511	THH WQC applied at PWS at RMI 959.4
2,4-Dimethylphenol	0	0		0	100	100.0	75,108	THH WQC applied at PWS at RMI 959.4
4,6-Dinitro-o-Cresol	0	0		0	2	2.0	1,502	THH WQC applied at PWS at RMI 959.4
2,4-Dinitrophenol	0	0		0	10	10.0	7,511	THH WQC applied at PWS at RMI 959.4
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	3,004,339	THH WQC applied at PWS at RMI 959.4
2,4,6-Trichlorophenol	0	0		0	N/A	N/A	N/A	
Acenaphthene	0	0		0	70	70.0	52,576	THH WQC applied at PWS at RMI 959.4
Anthracene	0	0		0	300	300	225,325	THH WQC applied at PWS at RMI 959.4
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	
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	150,217	THH WQC applied at PWS at RMI 959.4
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	75.1	THH WQC applied at PWS at RMI 959.4
2-Chloronaphthalene	0	0		0	800	800	600,868	THH WQC applied at PWS at RMI 959.4
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	420	420	315,456	THH WQC applied at PWS at RMI 959.4
1,3-Dichlorobenzene	0	0		0	7	7.0	5,258	THH WQC applied at PWS at RMI 959.4
1,4-Dichlorobenzene	0	0		0	63	63.0	47,318	THH WQC applied at PWS at RMI 959.4
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	600	600	450,651	THH WQC applied at PWS at RMI 959.4
Dimethyl Phthalate	0	0		0	2,000	2,000	1,502,169	THH WQC applied at PWS at RMI 959.4
Di-n-Butyl Phthalate	0	0		0	20	20.0	15,022	THH WQC applied at PWS at RMI 959.4
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	15,022	THH WQC applied at PWS at RMI 959.4
Fluorene	0	0		0	50	50.0	37,554	THH WQC applied at PWS at RMI 959.4
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	3,004	THH WQC applied at PWS at RMI 959.4
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	25,537	THH WQC applied at PWS at RMI 959.4
Naphthalene	0	0		0	N/A	N/A	N/A	
Nitrobenzene	0	0		0	10	10.0	7,511	THH WQC applied at PWS at RMI 959.4
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	15,022	THH WQC applied at PWS at RMI 959.4
1,2,4-Trichlorobenzene	0	0		0	0.07	0.07	52.6	THH WQC applied at PWS at RMI 959.4
Orsanco Mercury	0	0		0	0.012	0.012	9.01	THH WQC applied at PWS at RMI 959.4

☑ *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	
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	
Total Silver	0	0		0	50	50.0	114,946	
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	0.051	0.051	117	
Benzene	0	0		0	0.58	0.58	1,333	
Bromoform	0	0		0	4.3	4.3	9,885	
Carbon Tetrachloride	0	0		0	0.4	0.4	920	
Chlorobenzene	0	0		0	N/A	N/A	N/A	
Chlorodibromomethane	0	0		0	0.4	0.4	920	
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	0.55	0.55	1,264	
1,2-Dichloroethane	0	0		0	0.38	0.38	874	
1,1-Dichloroethylene	0	0		0	N/A	N/A	N/A	
1,2-Dichloropropane	0	0		0	0.5	0.5	1,149	
1,3-Dichloropropylene	0	0		0	0.27	0.27	621	
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	4.6	4.6	10,575	
1,1,2,2-Tetrachloroethane	0	0		0	0.17	0.17	391	
Tetrachloroethylene	0	0		0	0.69	0.69	1,586	
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	1,264	
Trichloroethylene	0	0		0	0.6	0.6	1,379	
Vinyl Chloride	0	0		0	0.02	0.02	46.0	
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	69.0	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	1.4	1.4	3,218	
Acenaphthene	0	0		0	N/A	N/A	N/A	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	0.000086	0.00009	0.2	
Benzo(a)Anthracene	0	0		0	0.001	0.001	2.3	
Benzo(a)Pyrene	0	0		0	0.0001	0.0001	0.23	
3,4-Benzofluoranthene	0	0		0	0.001	0.001	2.3	
Benzo(k)Fluoranthene	0	0		0	0.0038	0.004	8.74	
Bis(2-Chloroethyl)Ether	0	0		0	0.03	0.03	69.0	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	0.32	0.32	736	
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	0.0038	0.004	8.74	
Dibenzo(a,h)Anthrancene	0	0		0	0.0001	0.0001	0.23	
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	0.021	0.021	48.3	
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	115	
2,6-Dinitrotoluene	0	0		0	0.05	0.05	115	
1,2-Diphenylhydrazine	0	0		0	0.03	0.03	69.0	
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	0.18	
Hexachlorobutadiene	0	0		0	0.01	0.01	23.0	
Hexachlorocyclopentadiene	0	0		0	N/A	N/A	N/A	
Hexachloroethane	0	0		0	0.1	0.1	230	
Indeno(1,2,3-cd)Pyrene	0	0		0	0.001	0.001	2.3	
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	0.00069	0.0007	1.59	

n-Nitrosodi-n-Propylamine	0	0		0	0.005	0.005	11.5	
n-Nitrosodiphenylamine	0	0		0	3.3	3.3	7,586	
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	
Orsanco Mercury	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

☑ ***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)		mg/L	Discharge Conc ≤ 10% WQBEL
Chloride (PWS)		mg/L	Discharge Conc ≤ 10% WQBEL
Bromide	N/A	N/A	No WQS
Sulfate (PWS)		mg/L	Discharge Conc ≤ 10% WQBEL
Total Aluminum	52,526	µg/L	Discharge Conc ≤ 10% WQBEL
Total Antimony	4,206	µg/L	Discharge Conc ≤ 10% WQBEL
Total Arsenic	7,511	µg/L	Discharge Conc ≤ 10% WQBEL
Total Barium	751,085	µg/L	Discharge Conc ≤ 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Boron	567,281	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cadmium	152	µg/L	Discharge Conc ≤ 10% WQBEL
Total Chromium (III)	64,872	µg/L	Discharge Conc ≤ 10% WQBEL
Hexavalent Chromium	1,141	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cobalt	6,653	µg/L	Discharge Conc ≤ 10% WQBEL
Total Copper	998	µg/L	Discharge Conc ≤ 10% WQBEL
Free Cyanide	1,541	µg/L	Discharge Conc ≤ 25% WQBEL
Total Cyanide	N/A	N/A	No WQS
Dissolved Iron	225,325	µg/L	Discharge Conc ≤ 10% WQBEL
Total Iron	1,348,585	µg/L	Discharge Conc ≤ 10% WQBEL
Total Lead	2,398	µg/L	Discharge Conc ≤ 10% WQBEL
Total Manganese	751,085	µg/L	Discharge Conc ≤ 10% WQBEL
Total Mercury	0.012	µg/L	Discharge Conc < TQL
Total Nickel	33,377	µg/L	Discharge Conc ≤ 10% WQBEL
Total Phenols (Phenolics) (PWS)		µg/L	Discharge Conc ≤ 10% WQBEL
Total Selenium	3,747	µg/L	Discharge Conc ≤ 10% WQBEL
Total Silver	274	µg/L	Discharge Conc ≤ 10% WQBEL
Total Thallium	180	µg/L	Discharge Conc ≤ 10% WQBEL
Total Zinc	8,524	µg/L	Discharge Conc ≤ 10% WQBEL
Total Molybdenum	N/A	N/A	No WQS
Acrolein	210	µg/L	Discharge Conc ≤ 25% WQBEL
Acrylonitrile	117	µg/L	Discharge Conc ≤ 25% WQBEL
Benzene	1,333	µg/L	Discharge Conc ≤ 25% WQBEL
Bromoform	9,885	µg/L	Discharge Conc ≤ 25% WQBEL
Carbon Tetrachloride	920	µg/L	Discharge Conc ≤ 25% WQBEL
Chlorobenzene	75,108	µg/L	Discharge Conc ≤ 25% WQBEL
Chlorodibromomethane	920	µg/L	Discharge Conc ≤ 25% WQBEL
Chloroethane	N/A	N/A	No WQS

2-Chloroethyl Vinyl Ether	1,260,625	µg/L	Discharge Conc ≤ 25% WQBEL
Chloroform	4,281	µg/L	Discharge Conc ≤ 25% WQBEL
Dichlorobromomethane	1,264	µg/L	Discharge Conc ≤ 25% WQBEL
1,1-Dichloroethane	N/A	N/A	No WQS
1,2-Dichloroethane	874	µg/L	Discharge Conc ≤ 25% WQBEL
1,1-Dichloroethylene	24,786	µg/L	Discharge Conc ≤ 25% WQBEL
1,2-Dichloropropane	1,149	µg/L	Discharge Conc ≤ 25% WQBEL
1,3-Dichloropropylene	621	µg/L	Discharge Conc ≤ 25% WQBEL
1,4-Dioxane	N/A	N/A	No WQS
Ethylbenzene	51,074	µg/L	Discharge Conc ≤ 25% WQBEL
Methyl Bromide	35,301	µg/L	Discharge Conc ≤ 25% WQBEL
Methyl Chloride	1,960,972	µg/L	Discharge Conc ≤ 25% WQBEL
Methylene Chloride	10,575	µg/L	Discharge Conc ≤ 25% WQBEL
1,1,2,2-Tetrachloroethane	391	µg/L	Discharge Conc ≤ 25% WQBEL
Tetrachloroethylene	1,586	µg/L	Discharge Conc ≤ 25% WQBEL
Toluene	42,812	µg/L	Discharge Conc ≤ 25% WQBEL
1,2-trans-Dichloroethylene	75,108	µg/L	Discharge Conc ≤ 25% WQBEL
1,1,1-Trichloroethane	210,104	µg/L	Discharge Conc ≤ 25% WQBEL
1,1,2-Trichloroethane	1,264	µg/L	Discharge Conc ≤ 25% WQBEL
Trichloroethylene	1,379	µg/L	Discharge Conc ≤ 25% WQBEL
Vinyl Chloride	46.0	µg/L	Discharge Conc ≤ 25% WQBEL
2-Chlorophenol	22,533	µg/L	Discharge Conc ≤ 25% WQBEL
2,4-Dichlorophenol	7,511	µg/L	Discharge Conc ≤ 25% WQBEL
2,4-Dimethylphenol	46,223	µg/L	Discharge Conc ≤ 25% WQBEL
4,6-Dinitro-o-Cresol	1,502	µg/L	Discharge Conc ≤ 25% WQBEL
2,4-Dinitrophenol	7,511	µg/L	Discharge Conc ≤ 25% WQBEL
2-Nitrophenol	560,278	µg/L	Discharge Conc ≤ 25% WQBEL
4-Nitrophenol	161,080	µg/L	Discharge Conc ≤ 25% WQBEL
p-Chloro-m-Cresol	11,206	µg/L	Discharge Conc ≤ 25% WQBEL
Pentachlorophenol	69.0	µg/L	Discharge Conc ≤ 25% WQBEL
Phenol	3,004,339	µg/L	Discharge Conc ≤ 25% WQBEL
2,4,6-Trichlorophenol	3,218	µg/L	Discharge Conc ≤ 25% WQBEL
Acenaphthene	5,813	µg/L	Discharge Conc ≤ 25% WQBEL
Acenaphthylene	N/A	N/A	No WQS
Anthracene	225,325	µg/L	Discharge Conc ≤ 25% WQBEL
Benzidine	0.2	µg/L	Discharge Conc < TQL
Benzo(a)Anthracene	2.3	µg/L	Discharge Conc < TQL
Benzo(a)Pyrene	0.23	µg/L	Discharge Conc < TQL
3,4-Benzofluoranthene	2.3	µg/L	Discharge Conc < TQL
Benzo(ghi)Perylene	N/A	N/A	No WQS
Benzo(k)Fluoranthene	8.74	µg/L	Discharge Conc < TQL
Bis(2-Chloroethoxy)Methane	N/A	N/A	No WQS
Bis(2-Chloroethyl)Ether	69.0	µg/L	Discharge Conc ≤ 25% WQBEL
Bis(2-Chloroisopropyl)Ether	150,217	µg/L	Discharge Conc ≤ 25% WQBEL
Bis(2-Ethylhexyl)Phthalate	736	µg/L	Discharge Conc ≤ 25% WQBEL

4-Bromophenyl Phenyl Ether	18,909	µg/L	Discharge Conc ≤ 25% WQBEL
Butyl Benzyl Phthalate	75.1	µg/L	Discharge Conc ≤ 25% WQBEL
2-Chloronaphthalene	600,868	µg/L	Discharge Conc ≤ 25% WQBEL
4-Chlorophenyl Phenyl Ether	N/A	N/A	No WQS
Chrysene	8.74	µg/L	Discharge Conc < TQL
Dibenzo(a,h)Anthrancene	0.23	µg/L	Discharge Conc < TQL
1,2-Dichlorobenzene	57,428	µg/L	Discharge Conc ≤ 25% WQBEL
1,3-Dichlorobenzene	5,258	µg/L	Discharge Conc ≤ 25% WQBEL
1,4-Dichlorobenzene	47,318	µg/L	Discharge Conc ≤ 25% WQBEL
3,3-Dichlorobenzidine	48.3	µg/L	Discharge Conc ≤ 25% WQBEL
Diethyl Phthalate	280,139	µg/L	Discharge Conc ≤ 25% WQBEL
Dimethyl Phthalate	175,087	µg/L	Discharge Conc ≤ 25% WQBEL
Di-n-Butyl Phthalate	7,704	µg/L	Discharge Conc ≤ 25% WQBEL
2,4-Dinitrotoluene	115	µg/L	Discharge Conc ≤ 25% WQBEL
2,6-Dinitrotoluene	115	µg/L	Discharge Conc ≤ 25% WQBEL
Di-n-Octyl Phthalate	N/A	N/A	No WQS
1,2-Diphenylhydrazine	69.0	µg/L	Discharge Conc ≤ 25% WQBEL
Fluoranthene	14,007	µg/L	Discharge Conc ≤ 25% WQBEL
Fluorene	37,554	µg/L	Discharge Conc ≤ 25% WQBEL
Hexachlorobenzene	0.00008	µg/L	Discharge Conc < TQL
Hexachlorobutadiene	0.01	µg/L	Discharge Conc < TQL
Hexachlorocyclopentadiene	350	µg/L	Discharge Conc ≤ 25% WQBEL
Hexachloroethane	230	µg/L	Discharge Conc ≤ 25% WQBEL
Indeno(1,2,3-cd)Pyrene	2.3	µg/L	Discharge Conc < TQL
Isophorone	25,537	µg/L	Discharge Conc ≤ 25% WQBEL
Naphthalene	9,805	µg/L	Discharge Conc ≤ 25% WQBEL
Nitrobenzene	7,511	µg/L	Discharge Conc ≤ 25% WQBEL
n-Nitrosodimethylamine	1.59	µg/L	Discharge Conc < TQL
n-Nitrosodi-n-Propylamine	11.5	µg/L	Discharge Conc < TQL
n-Nitrosodiphenylamine	7,586	µg/L	Discharge Conc ≤ 25% WQBEL
Phenanthrene	350	µg/L	Discharge Conc ≤ 25% WQBEL
Pyrene	15,022	µg/L	Discharge Conc ≤ 25% WQBEL
1,2,4-Trichlorobenzene	52.6	µg/L	Discharge Conc ≤ 25% WQBEL
Orsanco Mercury	9.01	µg/L	Discharge Conc ≤ 10% WQBEL