pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0101800**
Facility Type	**Industrial**	APS ID	**989142**
Major / Minor	**Minor**	Authorization ID	**1266228**

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

Applicant and Facility Information

Applicant Name	**Lord Corporation**	Facility Name	**Lord Corporation Saegertown**
Applicant Address	PO Box 1050 601 South Street Saegertown, PA 16433	Facility Address	601 South Street Saegertown, PA 16433
Applicant Contact	Sharon Levkus, EH&S Manager	Facility Contact	Sharon Levkus, EH&S Manager
Applicant Phone	(814) 763-2345	Facility Phone	(814) 763-2345
Client ID	88223	Site ID	256639
SIC Code	2851	Municipality	Saegertown Borough
SIC Description	Manufacturing - Paints and Allied Products	County	Crawford County
Date Application Received	February 25, 2019	EPA Waived?	Yes
Date Application Accepted	March 22, 2019	If No, Reason	-

Purpose of Application: Renewal of an existing IW NPDES Permit for a discharge of NCCW and stormwater.

Summary of Review

Act 14 - Proof of Notification was submitted and received.

This facility is not subject to any ELGs.

A Part II Water Quality Management permit is not required at this time.

The applicant should be able to continue to meet the limits of this permit, which will protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:

- A. Right of Way
- B. Solids Handling
- C. NPDES Permit Supersedes WQM Permits
- D. Modification or Revocation for Changes to BAT or BCT
- E. Temperature
- F. No Net Addition of Pollutants to NCCW

SPECIAL CONDITIONS:

- II. Chemical Additives
- III. Requirements Applicable to Stormwater Outfalls

There are no open violations in efacts associated with the subject Client ID (88223) as of 12/18/2019.

Approve	Deny	Signatures	Date
X		Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist	
X		Justin C. Dickey, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	1.642
Latitude	41º 42' 24.00"	Longitude	-80º 08' 43.00"
Quad Name	-	Quad Code	-
Wastewater Description:	Noncontact Cooling Water (NCCW)		
Receiving Waters	French Creek (WWF)	Stream Code	51591
NHD Com ID	127350488	RMI	38.0
Drainage Area	-	Yield (cfs/mi^2)	-
Q_{7-10} Flow (cfs)	-	Q_{7-10} Basis	-
Elevation (ft)	-	Slope (ft/ft)	-
Watershed No.	16-A	Chapter 93 Class.	WWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired*		
Cause(s) of Impairment	Mercury		
Source(s) of Impairment	Source Unknown		
TMDL Status	-	Name	-

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

Nearest Downstream Public Water Supply Intake	Aqua Pennsylvania, Inc. - Emlenton		
PWS Waters	Allegheny River	Flow at Intake (cfs)	1,376
PWS RMI	90.0	Distance from Outfall (mi)	111.0

* - This discharge is not expected to contribute mercury in any significant quantities.

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.

Narrative: This Fact Sheet details the determination of draft NPDES permit limits for an existing discharge of 1.642 MGD of Industrial Waste-related wastewater (NCCW) from an existing discharge in Saegertown Borough, Crawford County.

Facility Area: See the topographical map (Attachment 1) and the aerial map (Attachment 2)

1. Streamflow:

The drainage area and the Q_{7-10} low flow were obtained from USGS Streamstats for the French Creek at the discharge point. The yieldrate at Outfall 001 was then calculated.

French Creek at Outfall 001:	Drainage Area:	631	sq. mi.	(from StreamStats)
	Q_{7-10}:	47.6	cfs	(from StreamStats)
	Yieldrate:	0.075	cfsm	(calculated)

2. Wasteflow: Outfall 001

Maximum discharge: 1.642 MGD = 2.54 cfs

Runoff flow period: 24 hours Basis: Runoff flow based on application

Flow will continue to be required to be monitored as authorized under Chapter 92a.61.

3. Parameters:

pH

Between 6.0 and 9.0 at all times

Basis: Application of Chapter 95.2 technology-based limits.

Total Residual Chlorine (TRC)

☐ No limit necessary
☒ TRC limits: 0.5 mg/l (monthly average)
1.6 mg/l (instantaneous maximum)

Basis: The TRC limits above are technology-based using the TRC_Calc Spreadsheet (see Attachment 3). The TRC_Calc Spreadsheet was run based on the discharge point at the French Creek, which is after the discharge has mixed with the Saegertown Area STP. TRC limits are set in the NPDES Permit for the Saegertown Area STP under NPDES Permit PA0101923 to protect endangered mussels in the French Creek. Therefore, monitoring for TRC from the previous renewal will be retained.

4. TDS Evaluation:

Nearest Downstream potable water supply (PWS): Aqua Pennsylvania, Inc. - Emlenton
Distance downstream from the point of discharge: 111.0 miles (approximate)

☒ No limits necessary
☐ Limits needed

Basis: Significant dilution available (see below).

PWS Evaluation:

Stream flow (sf) at the potable water supply intake = 1,376 cfs
Waste flow (wf) from the discharge = 1.642 MGD = 2.54 cfs
Total flow (tot. flow) = 1,378.54 cfs
Background TDS Concentration: no data

Mass balance for TDS at the potable water supply intake:

(sf @ PWS)(bkrd. conc.) + (wf)(x) = (tot. flow)(criteria)
(1,376 cfs)(0 mg/l) + (2.54 cfs)(x) = (1,378.54 cfs)(500 mg/l)

x = 271,366 mg/l (renewal application maximum was 660 mg/l - ok)

5. Approved Chemical Additives: Outfall 001

Chemical Name	Purpose	Maximum Usage Rate	Units
Polyplex 271 (Potassium Hydroxide)	Boiler Water Treatment	2.7	lbs/day
Formula 2340-H (Amines, liquid, corrosive, N.O.S. - contains cyclohexylamine)	Boiler Water Treatment	2.5	lbs/day
Formula 2250-F (corrosive liquid, basic, inorganic, N.O.S. - contains sodium hydroxide)	Boiler Water Treatment	1.5	lbs/day
Formula 1200 (contains sodium hydroxide, sodium nitrite)	Nitrite Based Inhibitor - Closed System Treatment	0.9	lbs/day

6. Anti-Backsliding:

Since all the permit limits in this renewal are the same or more restrictive than the previous NPDES Permit, anti-backsliding is not applicable.

7. Attachment List:

Attachment 1 - Topographical Map of the Facility Area

Attachment 2 - Aerial Map of the STP

Attachment 3 - TRC_Calc Spreadsheet

Attachment 4 - Mussel Survey sampling results for Outfall 001

If viewing this electronically, please refer to the following PDF to view the above Attachments:

Adobe Acrobat Document

Threatened and Endangered Mussel Species Concerns and Considerations

The main segment of French Creek from the Union City Reservoir to the confluence with the Allegheny River was designated by the United States Fish and Wildlife Services (USFWS) as "Critical Habitat" for the rabbitsfoot mussel, a federally listed threatened species, and is known to also contain other threatened and endangered mussel species. Outfall 001 is a direct discharge to the French Creek, located just upstream of the confluence of Woodcock Creek and French Creek, and is a combination of flow from the Lord Corporation and the Saegertown STP. The outfall location is considered the first reasonable location for suitable endangered mussel habitat.

The USFWS has indicated in comment letters on other NPDES permits that to protect threatened and endangered mussel species, wastewater discharges containing ammonia-nitrogen (NH_3-N), chloride (Cl^-) and nickel, where mussels or their habitat exist, can be no more than 1.9 mg/l, 78 mg/l, and 7.3 µg/l, respectively. The Department reviewed sampling data for these three parameters to determine potential impacts that the discharge may have to threatened and endangered mussel species.

There is insufficient data to make an informed decision on the impact of this discharge. The application contains only 3 effluent samples for Ammonia-Nitrogen and there is no data on the amount of Chlorides and Nickel in the effluent. In addition, there is no data available to determine if there is any seasonal variability in the Ammonia-Nitrogen being discharged from the plant.

A summary of the data is as follows:

Sampling Data for USFWS Parameters of Concern	
Parameter	Result
Ammonia-Nitrogen (NH_3-N) (mg/L)	< 0.2
Chloride (mg/L)	N/A
Nickel (µg/L)	N/A

The Department will establish quarterly effluent monitoring for Ammonia-Nitrogen (NH3-N), Chloride, and Nickel to develop a dataset to further evaluate potential impacts for the next permit renewal. None of the three parameters would typically be required for a permit of this nature.

A mussel survey was performed by the Department during the summer of 2019. While the final report for the mussel survey has not been finished to date, Joe Brancato, a NWRO biologist, reported that no mussel impacts were readily observable during the study.

The discharge from the combined Saegertown STP and Lord Corporation effluent pipe was sampled as part of the mussel survey (see Attachment 4). The sample results at Outfall 001 for Ammonia-Nitrogen (NH3-N), Chloride, and Nickel were:

Sampling Data for USFWS Parameters of Concern	
Parameter	Result
Ammonia-Nitrogen (NH_3-N) (mg/L)	0.03
Chloride (mg/L)	48.98
Nickel (µg/L)	< 50.0

The sampling data above is based on the combined discharge from the Lord Corporation and the Saegertown STP to Outfall 001. Since the flows are combined, the quarterly effluent monitoring for Ammonia-Nitrogen (NH3-N), Chloride, and Nickel that will be added to the permit renewal will provide data specific to the Lord Corporation discharge.

Compliance History

DMR Data for Outfall 001 (from November 1, 2018 to October 31, 2019)

Parameter	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18
Flow (MGD) Average Monthly	1.02	0.66	0.81	0.949	0.949	1.31	1.48	1.35	1.41	1.28	0.91	1.03
pH (S.U.) Minimum	7.07	7.20	7.24	7.15	6.99	7.12	7.35	7.19	7.21	7.07	6.99	7.00
pH (S.U.) Maximum	7.35	7.70	7.24	7.19	7.08	7.32	7.37	7.27	7.21	7.09	7.07	7.06
TRC (mg/L) Average Monthly	0.77	0.59	0.67	0.58	0.53	0.75	0.39	0.58	0.51	0.73	0.71	0.55
Temperature (ºF) Daily Average	61	71	66	64	70	60	56	58	64	57	55	64

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Quarterly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/day	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/month	Grab
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	2/month	Grab
Temperature (ºF)	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	2/month	I-S
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Chloride	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite

Samples taken at the following location: Outfall 001 (NCCW), prior to mixing with any other wastewaters.

Monitoring for Flow, TRC, and Temperature is based on Chapter 92a.61. The limits for pH are technology-based on Chapter 95.2. Monitoring for Ammonia-Nitrogen, Total Nickel, and Chloride is based on Chapter 92a.61.

Discharge, Receiving Waters and Water Supply Information

IMP No.	101	Design Flow (MGD)	0.00
Latitude	41º 42' 24.00"	Longitude	-80º 08' 43.00"
Quad Name	-	Quad Code	-
Wastewater Description:	Stormwater		

Receiving Waters	French Creek (WWF)	Stream Code	51591
NHD Com ID	127350488	RMI	38.0
Drainage Area	-	Yield (cfs/mi^2)	-
Q_{7-10} Flow (cfs)	-	Q_{7-10} Basis	-
Elevation (ft)	-	Slope (ft/ft)	-
Watershed No.	16-A	Chapter 93 Class.	WWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired*		
Cause(s) of Impairment	Mercury		
Source(s) of Impairment	Source Unknown		
TMDL Status	-	Name	-

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

Nearest Downstream Public Water Supply Intake	Aqua Pennsylvania, Inc. - Emlenton		
PWS Waters	Allegheny River	Flow at Intake (cfs)	1,376
PWS RMI	90.0	Distance from Outfall (mi)	111.0

* - This discharge is not expected to contribute mercury in any significant quantities.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

IMP 101, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Samples taken at the following location: IMP 101 (stormwater), prior to mixing with any other wastewaters.

Monitoring for pH, COD, TSS, Nitrate-Nitrite, Total Phosphorus, Total Aluminum, Total Iron, Total Lead, and Total Zinc is based on the stormwater monitoring requirements for Appendix F facilities from the PAG-03 General Permit.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002	Design Flow (MGD)	0.00
Latitude	41º 42' 44.00"	Longitude	-80º 08' 32.00"
Quad Name	-	Quad Code	-
Wastewater Description:	Stormwater		

Receiving Waters	Woodcock Creek (CWF)	Stream Code	52675
NHD Com ID	134386782	RMI	0.44
Drainage Area	-	Yield (cfs/mi^2)	-
Q_{7-10} Flow (cfs)	-	Q_{7-10} Basis	-
Elevation (ft)	-	Slope (ft/ft)	-
Watershed No.	16-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	-	Name	-

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

Nearest Downstream Public Water Supply Intake	Aqua Pennsylvania, Inc. - Emlenton		
PWS Waters	Allegheny River	Flow at Intake (cfs)	1,376
PWS RMI	90.0	Distance from Outfall (mi)	111.0

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Samples taken at the following location: Outfall 002 (stormwater), prior to mixing with any other wastewaters.

Monitoring for pH, COD, TSS, Nitrate-Nitrite, Total Phosphorus, Total Aluminum, Total Iron, Total Lead, and Total Zinc is based on the stormwater monitoring requirements for Appendix F facilities from the PAG-03 General Permit.

Discharge, Receiving Waters and Water Supply Information

IMP No.	201	Design Flow (MGD)	1.642
Latitude	41º 42' 44.00"	Longitude	-80º 08' 32.00"
Quad Name	-	Quad Code	-
Wastewater Description:	Emergency NCCW overflow from Outfall 001		

Receiving Waters	Woodcock Creek (CWF)	Stream Code	52675
NHD Com ID	134386782	RMI	0.44
Drainage Area	-	Yield (cfs/mi^2)	-
Q_{7-10} Flow (cfs)	-	Q_{7-10} Basis	-
Elevation (ft)	-	Slope (ft/ft)	-
Watershed No.	16-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	-	Name	-

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

Nearest Downstream Public Water Supply Intake	Aqua Pennsylvania, Inc. - Emlenton		
PWS Waters	Allegheny River	Flow at Intake (cfs)	1,376
PWS RMI	90.0	Distance from Outfall (mi)	111.0

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

IMP 201, 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 Quarterly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/day	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/month	Grab
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	2/month	Grab
Temperature (ºF)	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	2/month	I-S
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Chloride	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite

Samples taken at the following location: IMP 201 (NCCW), prior to mixing with any other wastewaters.

Monitoring for Flow, TRC, and Temperature is based on Chapter 92a.61. The limits for pH are technology-based on Chapter 95.2. Monitoring for Ammonia-Nitrogen, Total Nickel, and Chloride is based on Chapter 92a.61.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	003	Design Flow (MGD)	0.00
Latitude	41º 42' 45.00"	Longitude	-80º 08' 25.00"
Quad Name	-	Quad Code	-
Wastewater Description:	Stormwater		

Receiving Waters	Woodcock Creek (CWF)	Stream Code	52675
NHD Com ID	134386782	RMI	0.64
Drainage Area	-	Yield (cfs/mi^2)	-
Q_{7-10} Flow (cfs)	-	Q_{7-10} Basis	-
Elevation (ft)	-	Slope (ft/ft)	-
Watershed No.	16-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	-	Name	-

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

Nearest Downstream Public Water Supply Intake	Aqua Pennsylvania, Inc. - Emlenton		
PWS Waters	Allegheny River	Flow at Intake (cfs)	1,376
PWS RMI	90.0	Distance from Outfall (mi)	111.0

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 003, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Samples taken at the following location: Outfall 003 (stormwater), prior to mixing with any other wastewaters.

Monitoring for pH, COD, TSS, Nitrate-Nitrite, Total Phosphorus, Total Aluminum, Total Iron, Total Lead, and Total Zinc is based on the stormwater monitoring requirements for Appendix F facilities from the PAG-03 General Permit.