Northwest Regional Office
CLEAN WATER PROGRAM

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

Application Type	**Renewal**	Application No.	**PA0044016**
Facility Type	**Industrial**	APS ID	**962792**
Major / Minor	**Minor**	Authorization ID	**1219412**

Applicant and Facility Information

Applicant Name	**PA Fish & Boat Commission Hatcheries Bureau**	Facility Name	**Linesville Fish Culture Station**
Applicant Address	Benner Spring Fish Research Station 1735 Shiloh Road State College, PA 16801-8495	Facility Address	13300 Hartstown Road Linesville, PA 16424-5434
Applicant Contact	Mindy McClenahan	Facility Contact	
Applicant Phone	(814) 353-2229	Facility Phone	
Client ID	135455	Site ID	241007
SIC Code	0921	Municipality	Pine Township
SIC Description	Agriculture - Fish Hatcheries And Preserves	County	Crawford
Date Application Received	February 22, 2018	EPA Waived?	Yes
Date Application Accepted	March 14, 2018	If No, Reason	

Purpose of Application: Application for a renewal of an NPDES permit for an existing discharge of treated Industrial waste

Summary of Review

No significant changes to the facilities operation has occurred since the previous permit renewal.

PPC Plan was last updated 12/01/2017.

There are currently no open violations listed in EFACTS for this permittee. (11/19/2018)

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	Return	Deny	Signatures	Date
X			Adam J. Pesek, 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)	0.2039
Latitude	41º 38' 38.17"	Longitude	80º 25' 32.81"
Outfall No.	002	Design Flow (MGD)	0.0458
Latitude	41º 38' 31.2324"	Longitude	80º 25' 51.8874"
Outfall No.	003	Design Flow (MGD)	0.2074
Latitude	41º 38' 45.53"	Longitude	80º 25' 43.88"
Outfall No.	004	Design Flow (MGD)	0.1494
Latitude	41º 38' 57.5154"	Longitude	80º 25' 24.2112"
Outfall No.	005	Design Flow (MGD)	0.2021
Latitude	41º 38' 44.27"	Longitude	80º 25' 29.46"
Outfall No.	006	Design Flow (MGD)	0.0535
Latitude	41º 38' 42.08"	Longitude	80º 25' 21.34"
Outfall No.	007	Design Flow (MGD)	0.0481
Latitude	41º 38' 43.15"	Longitude	80º 25' 21.92"
Outfall No.	008	Design Flow (MGD)	0.0481
Latitude	41º 38' 44.08"	Longitude	80º 25' 22.46"
Outfall No.	009	Design Flow (MGD)	0.1732
Latitude	41º 38' 44.5"	Longitude	80º 25' 22.7"
Outfall No.	010	Design Flow (MGD)	0.3312
Latitude	41º 38' 45.42"	Longitude	80º 25' 23.19"
Outfall No.	011	Design Flow (MGD)	0.6504
Latitude	41º 38' 52.17"	Longitude	80º 25' 27.28"
Quad Name	Linesville	Quad Code	02024

Wastewater Description: Fish hatchery propagation water

Receiving Waters	Pymatuning Reservoir (Shenango River)	Stream Code	35482
NHD Com ID	130034576	RMI	---
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)	1010	Slope (ft/ft)	
Watershed No.	20-A	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	

Assessment Status: Impaired – Aquatic Life
Cause(s) of Impairment: Impaired by pollution
Source(s) of Impairment:
TMDL Status: Name:
Nearest Downstream Public Water Supply Intake: Pymatuning State Park – Tuttle Point

PWS Waters	Pymatuning Reservoir	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	3

Treatment Facility Summary

Treatment Facility Name: Linesville Fish Culture Station

WQM Permit No.	Issuance Date
2089201	7/18/1990

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Industrial	Settling			

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
				Land application

Changes Since Last Permit Issuance:

Other Comments: Permit is for a pump station and two lined lagoons (A&B).

Modifications described in letters submitted 5/10/1991 and 4/29/2016 were incorporated into the existing permit.

Compliance History

DMR Data for Outfall 001 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly	0.1440	0.2160	0.2880	0.2592	0.2304	0.2016	0.1872	0.2520	1.4400	0.2160	0.2160	0.2880
CBOD5 (mg/L) Average Monthly	2	< 2	2	3	4	5	8	3	3	< 2	3	4
TSS (mg/L) Average Monthly	2	1	7	3	6	6	3	4	4	2	4	3

DMR Data for Outfall 002 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly	0.0749	0.0432	0.0288		0.0576	0.0432	0.2880					
CBOD5 (mg/L) Average Monthly	2	< 2	4		3	< 2	< 2					
TSS (mg/L) Average Monthly	5	5	18		10	0.7	2					

DMR Data for Outfall 004 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly				0.0288	0.0432	0.0374	0.0216	0.0144	0.0374			0.0374
CBOD5 (mg/L) Average Monthly				3	< 2	< 2	3	< 2	< 2			2
TSS (mg/L) Average Monthly				3	4	0.5	5	3	7			7

DMR Data for Outfall 005 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly	0.1440	0.2160	0.2880	0.2592	0.2304	0.2016	0.1872	0.2520	0.1440	0.2160	0.2160	0.2880
CBOD5 (mg/L) Average Monthly	2	3	5	5	4	2	2	< 2	< 2	4	< 2	< 2

TSS (mg/L) Average Monthly	3	8	8	15	4	2	3	4	0.5	2	< 1	1

DMR Data for Outfall 006 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly			0.0058						0.0374			
CBOD5 (mg/L) Average Monthly			3						< 2			
TSS (mg/L) Average Monthly			8						14			

DMR Data for Outfall 007 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly			0.0086						0.0374			
CBOD5 (mg/L) Average Monthly			2						< 2			
TSS (mg/L) Average Monthly			6						14			

DMR Data for Outfall 008 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly			0.0058						0.0374			
CBOD5 (mg/L) Average Monthly			3						< 2			
TSS (mg/L) Average Monthly			2						14			

DMR Data for Outfall 009 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly			0.0086						0.0374			
CBOD5 (mg/L) Average Monthly			9						< 2			
TSS (mg/L) Average Monthly			12						14			

DMR Data for Outfall 010 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly	0.2880	0.2880	0.2880	0.2880	0.2880	0.2880	0.2880	0.2880	0.2074	0.1440	0.1382	0.2074
CBOD5 (mg/L) Average Monthly	< 2	< 2	< 2	3	2	3	3	3	3	< 2	< 2	3
TSS (mg/L) Average Monthly	5	1	1	1	1	5	3	2	2	5	24	20

DMR Data for Outfall 011 (from December 1, 2017 to November 30, 2018)

Parameter	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17
Flow (MGD) Average Monthly	0.8179	0.8179	0.8179	0.8179	0.8179	0.8179	0.8179	0.8179	1.0771	0.8640	0.8179	0.8179
CBOD5 (mg/L) Average Monthly	3	3	3	3	3	4	3	2	2	< 2	3	2
TSS (mg/L) Average Monthly	11	9	8	10	2	7	7	11	5	14	14	11

Compliance History	
Summary of Inspections:	No documented inspections in the last 5 years

Other Comments: Permittee notified the Department on 1/29/2015 of a TSS effluent violation (January 2015) at Outfall 010 due to large amount of geese that took up residence on this outfall's pond.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.2039
Latitude 41º 38' 38.17" **Longitude** 80º 25' 32.81"
Wastewater Description: Aquaculture Discharge

Outfall No. 005 **Design Flow (MGD)** 0.2021
Latitude 41º 38' 44.27" **Longitude** 80º 25' 29.46"
Wastewater Description: Aquaculture Discharge

Outfall No. 010 **Design Flow (MGD)** 0.3312
Latitude 41º 38' 45.42" **Longitude** 80º 25' 23.19"
Wastewater Description: Aquaculture Discharge

Outfall No. 011 **Design Flow (MGD)** 0.6504
Latitude 41º 38' 52.17" **Longitude** 80º 25' 27.28"
Wastewater Description: Aquaculture Discharge

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
N/A			

Comments: No water quality modeling was conducted due to these discharges being to a large reservoir.

Best Professional Judgment (BPJ) Limitations

Comments: In accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Industrial Permits," effluent limits or monitoring requirements found in the PAG-11 NPDES General Permit pertaining to aquaculture facilities were incorporated into this permit. These parameters include BOD_5, TSS, ammonia nitrogen, total nitrogen, total phosphorus and dissolved oxygen.

A BPJ determination was made by the Department to give dissolved oxygen an alternative limit than that found in the PAG-11 NPDES General permit (6.0 mg/l limit in PAG-11 Permit). A dissolved oxygen limit of a daily minimum of 5.0 mg/l will be placed in the permit due to the discharges being to a warm water fishery impoundment, where natural variations in oxygen level are to be expected.

Net limits for BOD_5, TSS and total nitrogen from in the general permit were converted to effluent limits at these outfalls due to the source water not entirely coming from the same watercourse as the discharge was to (40 CFR § 122.45 (g)). Sampling from Intake 001 will be used to calculate net limits for the outfalls that have associated net limits (Outfalls 002, 003, 004, 006, 007, 008, and 009).

Anti-Backsliding

The effluent limits for $CBOD_5$ (BOD5) found in the previous permit are based on BPJ, and they will be retained in the proposed renewed permit due to anti-backsliding provisions. The $CBOD_5$ limits will be converted to BOD_5 limits to be consistent with other state fish hatchery permits recently issued in the Northwest Region and by also acknowledging that the concentration of $CBOD_5$ and BOD_5 should be practically the same at lower concentrations.

Other Considerations

Monitoring frequencies for flow, pH, D.O., BOD_5, TSS, ammonia nitrogen, total nitrogen, and total phosphorus were set referencing the PAG-11 NPDES General Permit.

pH monitoring frequency will be set to "1/month" based on 5 years of DMR data demonstrating that they can consistently meet the limits. This action is consistent with permitting language found in the PAG-11 Permit boilerplate language, Part A.I.B.2.

Development of Effluent Limitations

Outfall No. 002 **Design Flow (MGD)** 0.0458
Latitude 41º 38' 31.23" **Longitude** 80º 25' 51.88"
Wastewater Description: Aquaculture Discharge

Outfall No. 003 **Design Flow (MGD)** 0.2074
Latitude 41º 38' 45.53" **Longitude** 80º 25' 43.88"
Wastewater Description: Aquaculture Discharge

Outfall No. 004 **Design Flow (MGD)** 0.1494
Latitude 41º 38' 57.51" **Longitude** 80º 25' 24.21"
Wastewater Description: Aquaculture Discharge

Outfall No. 006 **Design Flow (MGD)** 0.0535
Latitude 41º 38' 42.08" **Longitude** 80º 25' 21.34"
Wastewater Description: Aquaculture Discharge

Outfall No. 007 **Design Flow (MGD)** 0.0481
Latitude 41º 38' 43.15" **Longitude** 80º 25' 21.92"
Wastewater Description: Aquaculture Discharge

Outfall No. 008 **Design Flow (MGD)** 0.0481
Latitude 41º 38' 44.08" **Longitude** 80º 25' 22.46"
Wastewater Description: Aquaculture Discharge

Outfall No. 009 **Design Flow (MGD)** 0.1732
Latitude 41º 38' 44.5" **Longitude** 80º 25' 22.7"
Wastewater Description: Aquaculture Discharge

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
N/A			

Comments: No water quality modeling was conducted due to these discharges being to a large reservoir.

Best Professional Judgment (BPJ) Limitations

Comments: In accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Industrial Permits," effluent limits or monitoring requirements found in the PAG-11 NPDES General Permit pertaining to aquaculture facilities were incorporated into this permit. These parameters include BOD_5, TSS, ammonia nitrogen, total nitrogen, total phosphorus and dissolved oxygen.

A BPJ determination was made by the Department to give dissolved oxygen an alternative limit than that found in the PAG-11 NPDES General permit (6.0 mg/l limit in PAG-11 Permit). A dissolved oxygen limit of a daily minimum of 5.0 mg/l will be placed in the permit due to the discharges being to a warm water fishery impoundment, where natural swings in oxygen level are to be expected.

Anti-Backsliding

The effluent limits for $CBOD_5$ (BOD5) found in the previous permit are based on BPJ, and they will be retained in the proposed renewed permit due to anti-backsliding provisions. The $CBOD_5$ limits will be converted to BOD_5 limits to be consistent with other state fish hatchery permits recently issued in the Northwest Region and by also acknowledging that the concentration of $CBOD_5$ and BOD_5 should be practically the same at lower concentrations.

Other Considerations

Monitoring frequencies for flow, pH, D.O., BOD_5, TSS, ammonia nitrogen, total nitrogen, and total phosphorus were set referencing the PAG-11 NPDES General Permit.

pH monitoring frequency will be set to "1/month" based on 5 years of DMR data demonstrating that they can consistently meet the limits. This action is consistent with permitting language found in the PAG-11 Permit boilerplate language, Part A.I.B.2.

Since all the ponds that supply Outfalls 002 & 003 only contain fish for part of the year and those ponds are then drained, a footnote was added to the permit for those outfalls that reads "Sampling is not required during a sampling period where all the ponds that supply the outfall did not contain fish during that period, and the ponds were drained prior to that sampling period" for any discharge that may occur during that period due to rain and snow.

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/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5	XXX	XXX	XXX	10.0	10.0	20	1/quarter	8-Hr Composite
TSS	XXX	XXX	XXX	XXX	20.0	70	1/quarter	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	8-Hr Composite
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Compliance Sampling Location: Outfall 001 (prior to mixing with any other waters)

Other Comments:

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.

Intake 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	Daily Maximum	Instant. Maximum		
BOD5 Intake	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
TSS Intake	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Nitrogen Intake	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Compliance Sampling Location: Concrete basin at the main Lake Water Pumphouse

Other Comments:

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 Quarterly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5 Effluent Net	XXX	XXX	XXX	XXX	10.0	XXX	1/quarter	Calculation
BOD5	XXX	XXX	XXX	10.0	Report	20	1/quarter	8-Hr Composite
TSS Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
TSS	XXX	XXX	XXX	30.0	Report	60	1/quarter	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Nitrogen Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite

Compliance Sampling Location: Outfall 002 (prior to mixing with any other waters)

Other Comments:

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 Quarterly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5 Effluent Net	XXX	XXX	XXX	XXX	10.0	XXX	1/quarter	Calculation
BOD5	XXX	XXX	XXX	10.0	Report	20	1/quarter	8-Hr Composite
TSS Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
TSS	XXX	XXX	XXX	30.0	Report	60	1/quarter	8-Hr Composite
Total Nitrogen Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite

Compliance Sampling Location: Outfall 003 (prior to mixing with any other waters)

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

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

Outfall 004, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Quarterly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5 Effluent Net	XXX	XXX	XXX	XXX	10.0	XXX	1/quarter	Calculation
BOD5	XXX	XXX	XXX	10.0	Report	20	1/quarter	8-Hr Composite
TSS Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
TSS	XXX	XXX	XXX	30.0	Report	60	1/quarter	8-Hr Composite
Total Nitrogen Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite

Compliance Sampling Location: Outfall 004 (prior to mixing with any other waters)

Other Comments:

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 005, 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/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5	XXX	XXX	XXX	10.0	10.0	20	1/quarter	8-Hr Composite
TSS	XXX	XXX	XXX	20.0	20.0	40	1/quarter	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	8-Hr Composite
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Compliance Sampling Location: Outfall 005 (prior to mixing with any other waters)

Other Comments:

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 006, 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/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5	XXX	XXX	XXX	10.0	Report	20	1/quarter	8-Hr Composite
BOD5 Effluent Net	XXX	XXX	XXX	XXX	10.0	XXX	1/quarter	Calculation
TSS Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
TSS	XXX	XXX	XXX	50.0	Report	100	1/quarter	8-Hr Composite
Total Nitrogen Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite

Compliance Sampling Location: Outfall 006 (prior to mixing with any other waters)

Other Comments:

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 007, 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/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5 Effluent Net	XXX	XXX	XXX	XXX	10.0	XXX	1/quarter	Calculation
BOD5	XXX	XXX	XXX	14.0	Report	28	1/quarter	8-Hr Composite
TSS	XXX	XXX	XXX	50.0	Report	100	1/quarter	8-Hr Composite
TSS Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Nitrogen Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite

Compliance Sampling Location: Outfall 007 (prior to mixing with any other waters)

Other Comments:

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 008, 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/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5 Effluent Net	XXX	XXX	XXX	XXX	10.0	XXX	1/quarter	Calculation
BOD5	XXX	XXX	XXX	10.0	Report	20	1/quarter	8-Hr Composite
TSS Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
TSS	XXX	XXX	XXX	50.0	Report	100	1/quarter	8-Hr Composite
Total Nitrogen Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite

Compliance Sampling Location: Outfall 008 (prior to mixing with any other waters)

Other Comments:

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 009, 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/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5 Effluent Net	XXX	XXX	XXX	XXX	10.0	XXX	1/quarter	Calculation
BOD5	XXX	XXX	XXX	10.0	Report	20	1/quarter	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	Report	60	1/quarter	8-Hr Composite
TSS Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Nitrogen Effluent Net	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	Calculation
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite

Compliance Sampling Location: Outfall 009 (prior to mixing with any other waters)

Other Comments:

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 010, 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/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5	XXX	XXX	XXX	10.0	10.0	20	1/quarter	8-Hr Composite
TSS	XXX	XXX	XXX	XXX	20.0	100	1/quarter	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	8-Hr Composite
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Compliance Sampling Location: Outfall 010 (prior to mixing with any other waters)

Other Comments:

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 011, 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/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/week	Grab
BOD5	XXX	XXX	XXX	10.0	10.0	20	1/quarter	8-Hr Composite
TSS	XXX	XXX	XXX	XXX	20.0	70	1/quarter	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	XXX	20.0	XXX	1/quarter	8-Hr Composite
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Compliance Sampling Location: Outfall 011 (prior to mixing with any other waters)

Other Comments: