

Application Type Renewal
Facility Type Storm Water
Major / Minor Minor

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

Application No. PA0043818
APS ID 1023242
Authorization ID 1366100

Applicant and Facility Information

Waste Management Disposal Services of PA, Inc.		Facility Name	GROWS Landfill
Applicant Name	<u>Waste Management Disposal Services of PA, Inc.</u>	Facility Address	<u>1513 Bordentown Road</u>
Applicant Address	<u>1000 New Ford Mill Road</u> <u>Morrisville, PA 19067</u>		<u>Morrisville, PA 19067</u>
Applicant Contact	<u>Mr. Brian Bolvin</u>	Facility Contact	<u>Mr. Brian Bolvin</u>
Applicant Phone	<u>(215) 428-4384</u>	Facility Phone	<u>(215) 428-4384</u>
Client ID	<u>62425</u>	Site ID	<u>246680</u>
SIC Code	<u>4953</u>	Municipality	<u>Falls Township</u>
SIC Description	<u>Trans. & Utilities - Refuse Systems</u>	County	<u>Bucks</u>
Date Application Received	<u>August 28, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit Renewal.</u>		

Summary of Review

The permittee (Waste Management Disposal Services of PA, Inc.) has submitted application for renewal of NPDES Permit PA0043818 to continue to discharge industrial stormwater to Delaware River from GROWS Landfill. Waste Management requests that treated leachate currently discharged under Outfall 001 and stormwater Outfalls 002, 006, and 009 of the GROWS NPDES Permit PA0043818 be transferred to the Fairless Landfill Permit No. PA0244856.

Waste Management operates and maintains both active and closed landfills in Morrisville, PA. Fairless Landfill, an active solid waste landfill is operated by Waste Management of Fairless, LLC (WMF). Waste Management Disposal Services of PA, Inc (WMDSPA) maintains closed landfills which include the GROWS Landfill and GROWS North Landfill. The Tullytown Resource Recovery Facility (TRRF) is maintained by Waste Management of PA (WMPA). Leachate generated from active Fairless Landfill, closed GROWS Landfill, closed GROWS North Landfill, and closed TRRF is conveyed to a leachate treatment system for treatment prior to discharge to Delaware River.

Effluent from the leachate treatment system is currently discharged at Outfall 001 and stormwater in the area of the leachate treatment system is currently discharged at Outfall 002, 006 and 009 under NPDES Permit PA0043818 for GROWS Landfill. As GROWS is a closed landfill operation, Waste Management has requested for approval to transfer the leachate treatment system and related stormwater discharges to Fairless Landfill NPDE Permit PA0244856 to associate these discharges with an active landfill operation.

This NPDES Permit renewal for GROWS Landfill (PA0043818) includes only stormwater Outfalls 003, 004, 005, 010, 011 and 012. The outfalls (003, 004, 005, 010, and 012) receive stormwater from capped areas of the landfill while outfall 011 receives stormwater from Sedimentation Basin no.2. We will transfer the Outfall 001 that treats landfill leachate, and stormwater outfalls 002, 006, and 009 to the Fairless Landfill Permit PA0244856.

Approve	Deny	Signatures	Date
X		<i>Ketan Thaker</i> Ketan Thaker / Project Manager	9/15/2021
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	09/15/2021

Summary of Review

We have added monitoring for three parameters Total Suspended Solids, Chemical Oxygen Demand and Total Iron from Appendix C for Landfills and Land Application Sites covered under General Permit PAG-03 for all the stormwater outfalls. This permit renewal includes new stormwater requirements related to Landfills with Benchmark Vales for Total Suspended Solids (TSS), Chemical Oxygen Demand (COD), pH, Total Dissolved Solids, Ammonia, and Oil & Grease. If the stormwater discharge concentrations for a parameter exceeds the benchmark values at the same outfall for two or more consecutive monitoring periods, the permittee shall develop a corrective action plan to reduce concentrations of the parameters in stormwater discharges.

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.

DMR Data for Outfall 002 (from August 1, 2020 to July 31, 2021)

Parameter	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20
pH (S.U.) Daily Maximum		8.09										
CBOD5 (mg/L) Daily Maximum		2										
Total Dissolved Solids (mg/L) Daily Maximum		146										
Oil and Grease (mg/L) Daily Maximum		< 5										
Nitrate-Nitrite (mg/L) Daily Maximum		1.21										
Ammonia (mg/L) Daily Maximum		< 0.10										
Total Arsenic (mg/L) Daily Maximum		< 0.02										
Total Barium (mg/L) Daily Maximum		0.01										
Total Cadmium (mg/L) Daily Maximum		< 0.002										
Total Chromium (mg/L) Daily Maximum		< 0.01										
Total Cyanide (mg/L) Daily Maximum		< 0.020										
Dissolved Iron (mg/L) Daily Maximum		< 0.05										
Total Lead (mg/L) Daily Maximum		< 0.02										
Dissolved Magnesium (mg/L) Daily Maximum		11.4										
Total Magnesium (mg/L) Daily Maximum		11.3										
Total Mercury (mg/L) Daily Maximum		< 0.0002										
Total Selenium (mg/L) Daily Maximum		< 0.02										
Total Silver (mg/L) Daily Maximum		< 0.005										

**NPDES Permit Fact Sheet
Grows Landfill Waste Management**

NPDES Permit No. PA0043818

TOC (mg/L) Daily Maximum		2.3										
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DMR Data for Outfall 003 (from August 1, 2020 to July 31, 2021)

Parameter	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20
pH (S.U.) Daily Maximum		7.48						7.79				
CBOD5 (mg/L) Daily Maximum		20						16				
Total Dissolved Solids (mg/L) Daily Maximum		350						202				
Oil and Grease (mg/L) Daily Maximum		< 5						< 5				
Nitrate-Nitrite (mg/L) Daily Maximum		0.99						0.21				
Ammonia (mg/L) Daily Maximum		< 0.10						< 0.10				
Total Arsenic (mg/L) Daily Maximum		< 0.02						< 0.02				
Total Barium (mg/L) Daily Maximum		0.10						0.07				
Total Cadmium (mg/L) Daily Maximum		< 0.002						< 0.002				
Total Chromium (mg/L) Daily Maximum		< 0.01						< 0.01				
Total Cyanide (mg/L) Daily Maximum		< 0.02						< 0.020				
Dissolved Iron (mg/L) Daily Maximum		0.21						< 0.05				
Total Lead (mg/L) Daily Maximum		< 0.02						< 0.02				
Dissolved Magnesium (mg/L) Daily Maximum		9.3						7.5				
Total Magnesium (mg/L) Daily Maximum		10.5						8.4				
Total Mercury (mg/L) Daily Maximum		< 0.0002						< 0.0002				
Total Selenium (mg/L) Daily Maximum		< 0.02						< 0.02				

**NPDES Permit Fact Sheet
Grows Landfill Waste Management**

NPDES Permit No. PA0043818

Total Silver (mg/L) Daily Maximum		< 0.005						< 0.005				
TOC (mg/L) Daily Maximum		18.9						10.8				

DMR Data for Outfall 004 (from August 1, 2020 to July 31, 2021)

Parameter	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20
pH (S.U.) Daily Maximum		8.73						7.38				
CBOD5 (mg/L) Daily Maximum		< 3						3				
Total Dissolved Solids (mg/L) Daily Maximum		332						238				
Oil and Grease (mg/L) Daily Maximum		< 5						< 6				
Nitrate-Nitrite (mg/L) Daily Maximum		12.2						2.42				
Ammonia (mg/L) Daily Maximum		< 0.10						< 0.10				
Total Arsenic (mg/L) Daily Maximum		< 0.02						< 0.02				
Total Barium (mg/L) Daily Maximum		0.03						0.04				
Total Cadmium (mg/L) Daily Maximum		< 0.002						< 0.002				
Total Chromium (mg/L) Daily Maximum		< 0.01						< 0.01				
Total Cyanide (mg/L) Daily Maximum		< 0.020						< 0.020				
Dissolved Iron (mg/L) Daily Maximum		< 0.05						0.40				
Total Lead (mg/L) Daily Maximum		< 0.02						< 0.02				
Dissolved Magnesium (mg/L) Daily Maximum		24.9						10.9				
Total Magnesium (mg/L) Daily Maximum		26.1						11.9				
Total Mercury (mg/L) Daily Maximum		< 0.0002						< 0.0002				

**NPDES Permit Fact Sheet
Grows Landfill Waste Management**

NPDES Permit No. PA0043818

Total Selenium (mg/L) Daily Maximum		< 0.02							< 0.02			
Total Silver (mg/L) Daily Maximum		< 0.005							< 0.005			
TOC (mg/L) Daily Maximum		11.2							10.8			

DMR Data for Outfall 005 (from August 1, 2020 to July 31, 2021)

Parameter	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20
pH (S.U.) Daily Maximum		7.72						7.66				
CBOD5 (mg/L) Daily Maximum		3						< 3				
Total Dissolved Solids (mg/L) Daily Maximum		212						332				
Oil and Grease (mg/L) Daily Maximum		< 5						< 5				
Nitrate-Nitrite (mg/L) Daily Maximum		< 0.05						0.59				
Ammonia (mg/L) Daily Maximum		< 0.10						< 0.10				
Total Arsenic (mg/L) Daily Maximum		< 0.02						< 0.02				
Total Barium (mg/L) Daily Maximum		0.04						0.12				
Total Cadmium (mg/L) Daily Maximum		< 0.002						< 0.002				
Total Chromium (mg/L) Daily Maximum		< 0.01						< 0.01				
Total Cyanide (mg/L) Daily Maximum		< 0.02						< 0.020				
Dissolved Iron (mg/L) Daily Maximum		0.14						0.27				
Total Lead (mg/L) Daily Maximum		< 0.02						0.02				
Dissolved Magnesium (mg/L) Daily Maximum		6.1						14.6				
Total Magnesium (mg/L) Daily Maximum		5.9						14.9				

**NPDES Permit Fact Sheet
Grows Landfill Waste Management**

NPDES Permit No. PA0043818

Total Mercury (mg/L) Daily Maximum		< 0.0002						< 0.0002				
Total Selenium (mg/L) Daily Maximum		< 0.02						< 0.02				
Total Silver (mg/L) Daily Maximum		< 0.005						< 0.005				
TOC (mg/L) Daily Maximum		9.6						12.7				

DMR Data for Outfall 006 (from August 1, 2020 to July 31, 2021)

Parameter	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20
pH (S.U.) Daily Maximum		8.03						8.86				
CBOD5 (mg/L) Daily Maximum		3						< 3				
Total Dissolved Solids (mg/L) Daily Maximum		86						< 100				
Oil and Grease (mg/L) Daily Maximum		< 5						< 5				
Nitrate-Nitrite (mg/L) Daily Maximum		< 0.05						0.14				
Ammonia (mg/L) Daily Maximum		< 0.10						0.15				
Total Arsenic (mg/L) Daily Maximum		< 0.02						< 0.20				
Total Barium (mg/L) Daily Maximum		0.03						0.34				
Total Cadmium (mg/L) Daily Maximum		< 0.002						< 0.020				
Total Chromium (mg/L) Daily Maximum		< 0.01						0.12				
Total Cyanide (mg/L) Daily Maximum		< 0.02						< 0.020				
Dissolved Iron (mg/L) Daily Maximum		< 0.05						1.82				
Total Lead (mg/L) Daily Maximum		< 0.02						< 0.20				
Dissolved Magnesium (mg/L) Daily Maximum		3.7						2.1				

**NPDES Permit Fact Sheet
Grows Landfill Waste Management**

NPDES Permit No. PA0043818

Total Magnesium (mg/L) Daily Maximum		3.5						24.9				
Total Mercury (mg/L) Daily Maximum		< 0.0002						0.0003				
Total Selenium (mg/L) Daily Maximum		< 0.02						< 0.20				
Total Silver (mg/L) Daily Maximum		< 0.005						< 0.050				
TOC (mg/L) Daily Maximum		7.3						2.2				

DMR Data for Outfall 009 (from August 1, 2020 to July 31, 2021)

Parameter	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20
pH (S.U.) Daily Maximum		7.73						7.61				
CBOD5 (mg/L) Daily Maximum		8						2				
Total Dissolved Solids (mg/L) Daily Maximum		290						52				
Oil and Grease (mg/L) Daily Maximum		< 6						< 5				
Nitrate-Nitrite (mg/L) Daily Maximum		0.54						0.11				
Ammonia (mg/L) Daily Maximum		0.48						< 0.10				
Total Arsenic (mg/L) Daily Maximum		< 0.02						< 0.02				
Total Barium (mg/L) Daily Maximum		0.12						0.03				
Total Cadmium (mg/L) Daily Maximum		< 0.002						< 0.002				
Total Chromium (mg/L) Daily Maximum		0.03						< 0.01				
Total Cyanide (mg/L) Daily Maximum		< 0.02						< 0.020				
Dissolved Iron (mg/L) Daily Maximum		1.33						1.95				
Total Lead (mg/L) Daily Maximum		0.05						< 0.02				

**NPDES Permit Fact Sheet
Grows Landfill Waste Management**

NPDES Permit No. PA0043818

Dissolved Magnesium (mg/L) Daily Maximum	5.8							1.1				
Total Magnesium (mg/L) Daily Maximum	12.4							3.1				
Total Mercury (mg/L) Daily Maximum	< 0.0002							< 0.0002				
Total Selenium (mg/L) Daily Maximum	< 0.02							< 0.02				
Total Silver (mg/L) Daily Maximum	< 0.005							< 0.005				
TOC (mg/L) Daily Maximum	27.0							< 1.0				

DMR Data for Outfall 010 (from August 1, 2020 to July 31, 2021)

Parameter	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20
pH (S.U.) Daily Maximum		8.29						8.27				
CBOD5 (mg/L) Daily Maximum		2						18				
Total Dissolved Solids (mg/L) Daily Maximum		464						450				
Oil and Grease (mg/L) Daily Maximum		< 6						< 5				
Nitrate-Nitrite (mg/L) Daily Maximum		10.2						2.56				
Ammonia (mg/L) Daily Maximum		< 0.10						0.11				
Total Arsenic (mg/L) Daily Maximum		< 0.02						< 0.02				
Total Barium (mg/L) Daily Maximum		0.05						0.05				
Total Cadmium (mg/L) Daily Maximum		< 0.002						< 0.002				
Total Chromium (mg/L) Daily Maximum		< 0.01						< 0.01				
Total Cyanide (mg/L) Daily Maximum		0.026						< 0.020				
Dissolved Iron (mg/L) Daily Maximum		0.07						0.12				

**NPDES Permit Fact Sheet
Grows Landfill Waste Management**

NPDES Permit No. PA0043818

Total Lead (mg/L) Daily Maximum	< 0.02							< 0.02				
Dissolved Magnesium (mg/L) Daily Maximum	39.5							31.3				
Total Magnesium (mg/L) Daily Maximum	38.8							32.2				
Total Mercury (mg/L) Daily Maximum	< 0.0002							< 0.0002				
Total Selenium (mg/L) Daily Maximum	< 0.02							< 0.02				
Total Silver (mg/L) Daily Maximum	< 0.005							< 0.005				
TOC (mg/L) Daily Maximum	13.3							17.3				

DMR Data for Outfall 011 (from August 1, 2020 to July 31, 2021)

Parameter	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20
pH (S.U.) Daily Maximum		8.22						7.87				
CBOD5 (mg/L) Daily Maximum		2						5				
Total Dissolved Solids (mg/L) Daily Maximum		362						258				
Oil and Grease (mg/L) Daily Maximum		< 5						< 5				
Nitrate-Nitrite (mg/L) Daily Maximum		7.41						1.22				
Ammonia (mg/L) Daily Maximum		0.12						0.23				
Total Arsenic (mg/L) Daily Maximum		< 0.02						< 0.02				
Total Barium (mg/L) Daily Maximum		0.07						0.06				
Total Cadmium (mg/L) Daily Maximum		< 0.002						< 0.002				
Total Chromium (mg/L) Daily Maximum		< 0.01						< 0.01				
Total Cyanide (mg/L) Daily Maximum		< 0.020						< 0.020				

**NPDES Permit Fact Sheet
Grows Landfill Waste Management**

NPDES Permit No. PA0043818

Dissolved Iron (mg/L) Daily Maximum	0.11						0.31				
Total Lead (mg/L) Daily Maximum	< 0.02						0.02				
Dissolved Magnesium (mg/L) Daily Maximum	22.8						10.4				
Total Magnesium (mg/L) Daily Maximum	22.8						9.9				
Total Mercury (mg/L) Daily Maximum	< 0.0002						< 0.0002				
Total Selenium (mg/L) Daily Maximum	< 0.02						< 0.02				
Total Silver (mg/L) Daily Maximum	< 0.005						< 0.005				
TOC (mg/L) Daily Maximum	9.1						8.4				

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
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Arsenic	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Barium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cadmium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cyanide	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 003, 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Dissolved Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Mercury	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Selenium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Silver	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TOC	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Proposed Effluent Limitations and Monitoring Requirements

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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 Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Arsenic	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Barium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cadmium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cyanide	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 004, 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Mercury	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Selenium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Silver	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TOC	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

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 Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Arsenic	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Barium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cadmium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cyanide	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 005, 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Mercury	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Selenium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Silver	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TOC	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report		1/6 months	Grab

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 Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Arsenic	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Barium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cadmium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cyanide	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall010, 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Mercury	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Selenium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Silver	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TOC	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

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 Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Arsenic	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Barium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cadmium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cyanide	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall011 , 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Mercury	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Selenium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Silver	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TOC	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

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 012, 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
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Ammonia	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Arsenic	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Barium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cadmium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cyanide	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Magnesium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall012, 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Mercury	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Selenium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Silver	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TOC	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab