COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

NPDES PERMIT NO: PA0005037

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 *et seq.*,

NRG Homer City Services LLC
1750 Power Plant Road
Homer City, PA 15748

is authorized to discharge from a facilities known as **Homer City Generating Station and Homer City Coal Cleaning Plant**, located in **Center Township, Indiana County**, to **Unnamed Tributary of Two Lick Creek, Unnamed Tributary to Two Lick Creek, Two Lick Creek, Unnamed Tributary of Blacklick Creek, Unnamed Tributary to Blacklick Creek, Blacklick Creek, Unnamed Tributary of Cherry Run, Cherry Run, Unnamed Tributary to Muddy Run, and Unnamed Stream** in Watershed(s) **18-D** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON _____

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON _____

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.

2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))

3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. (40 CFR 122.41(b), 122.21(d)(2))

   In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7 (b), (c))

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED _____ **ISSUED BY** _____

Christopher Kriley, P.E.
Clean Water Program Manager
Southwest Regional Office

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. A. For Outfall 001 , **Latitude** 40° 30' 40.00" , **Longitude** -79° 10' 58.00" , **River Mile Index** 3.2800 , **Stream Code** 44073

Receiving Waters: Two Lick Creek

Type of Effluent: Cooling tower blowdown from cooling towers #1, #2 and #3

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **59 months after Permit Effective Date**. (4)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD) Aug 1 - Jun 30	Report	4.32 Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
Flow (MGD) Jul 1 - 31	Report	2.736 Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/week	Grab
Temperature (°F) Aug 1 - Jun 30	XXX	XXX	XXX	XXX	110	XXX	1/week	I-S
Temperature (°F) Jul 1 - 31	XXX	XXX	XXX	XXX	85.9	XXX	1/week	I-S
Free Available Chlorine	XXX	XXX	XXX	0.2 Annual Avg	0.5	XXX	2/year	Grab
Total Suspended Solids	XXX	XXX	XXX	15.0	50.0	XXX	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	7.5	10.0	XXX	1/week	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	0.75	1/week	24-Hr Composite
Total Aluminum (Total Load, lbs) (3)	XXX	9,869 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Chromium, Total (8)	XXX	XXX	XXX	0.2 Annual Avg	0.2	XXX	2/year	24-Hr Composite
Iron, Total	XXX	XXX	XXX	1.5	3.0	3.75	1/week	24-Hr Composite

Outfall 001, Continued (from Permit Effective Date through 59 months after Permit Effective Date) (4)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Total Iron (Total Load, lbs) (3)	XXX	19,739 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Manganese, Total	XXX	XXX	XXX	1.0	2.0	2.5	1/week	24-Hr Composite
Total Manganese (Total Load, lbs) (3)	XXX	13,159 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Thallium, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Zinc, Total (8)	XXX	XXX	XXX	1.0 Annual Avg	1.0	XXX	2/year	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 001

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. B. For Outfall 001 , **Latitude** 40° 30' 40.00" , **Longitude** -79° 10' 58.00" , **River Mile Index** 3.2800 , **Stream Code** 44073

Receiving Waters: Two Lick Creek

Type of Effluent: Cooling tower blowdown from cooling towers #1, #2 and #3

1. The permittee is authorized to discharge during the period from **59 months after Permit Effective Date** through **Permit Expiration Date**. (4)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD) Aug 1 - Jun 30	Report	4.32 Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
Flow (MGD) Jul 1 - 31	Report	2.736 Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/week	Grab
Temperature (°F) Aug 1 - Jun 30	XXX	XXX	XXX	XXX	110	XXX	1/week	I-S
Temperature (°F) Jul 1 - 31	XXX	XXX	XXX	XXX	85.9	XXX	1/week	I-S
Free Available Chlorine	XXX	XXX	XXX	0.2 Annual Avg	0.5	XXX	2/year	Grab
Total Suspended Solids	XXX	XXX	XXX	15.0	50.0	XXX	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	7.5	10.0	XXX	1/week	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	0.75	1/week	24-Hr Composite
Total Aluminum (Total Load, lbs) (3)	XXX	9,869 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Chromium, Total (8)	XXX	XXX	XXX	0.2 Annual Avg	0.2	XXX	2/year	24-Hr Composite
Iron, Total	XXX	XXX	XXX	1.5	3.0	3.75	1/week	24-Hr Composite

Outfall 001, Continued (from 59 months after Permit Effective Date through Permit Expiration Date)[4]

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)[1]		Concentrations (mg/L)				Minimum[2] Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum[7]		
Total Iron (Total Load, lbs)[3]	XXX	19,739 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)[3]	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Manganese, Total	XXX	XXX	XXX	1.0	2.0	2.5	1/week	24-Hr Composite
Total Manganese (Total Load, lbs)[3]	XXX	13,159 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)[3]	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Thallium, Total	XXX	XXX	XXX	0.0021	0.0033	0.0053	1/week	24-Hr Composite
Zinc, Total[8]	XXX	XXX	XXX	1.0 Annual Avg	1.0	XXX	2/year	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 001

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. C. For Internal Monitoring Point 101

Receiving Waters: Two Lick Creek through Outfall 001

Type of Effluent: Treated coal combustion waste landfill leachate from leachate ponds L-1, L-2, L-3 and L-4 and contaminated storm water runoff collected in a sedimentation/surge pond

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/week	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	100.0	XXX	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	15.0	20.0	XXX	1/week	Grab
Arsenic, Total	XXX	XXX	XXX	Report SEMI AVG	Report	XXX	1/6 months	24-Hr Composite
Iron, Dissolved	XXX	XXX	XXX	2.0	4.0	XXX	1/week	24-Hr Composite
Manganese, Total	XXX	XXX	XXX	2.0	4.0	XXX	1/week	24-Hr Composite
Mercury, Total (ng/L)	XXX	XXX	XXX	Report SEMI AVG	Report	XXX	1/6 months	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Internal Monitoring Point 101

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. D. For Internal Monitoring Point 201

Receiving Waters: Two Lick Creek through Outfall 001

Type of Effluent: Water from coal pile desilting basins 1, 2, and 3; water treatment wastes, plant drains, roof and parking lot drains, cooling tower drains for Units 1, 2, and 3, and storm water collected in the secondary containment areas for the fuel oil storage and truck loading pad

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Recorded

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Internal Monitoring Point 201

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. E. For Outfall 002 , **Latitude** 40° 30' 45.00" , **Longitude** -79° 10' 59.00" , **River Mile Index** 3.3000 , **Stream Code** 44073

Receiving Waters: Two Lick Creek

Type of Effluent: Intake screen backwash water

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Manganese, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 002

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. F. **For Outfall** 006 , **Latitude** 40° 30' 30.00" , **Longitude** -79° 11' 48.00" , **River Mile Index** 0.7600 , **Stream Code** 44076

Receiving Waters: Unnamed Tributary to Two Lick Creek

Type of Effluent: Sources monitored at Internal Monitoring Points 106 and 406

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **three years after the Permit Effective Date**. (5)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Annual	Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Precipitation (inches)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Precipitation (inches)	XXX	Report Total Mo	XXX	XXX	XXX	XXX	1/month	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

See Footnote 6

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. G. For Outfall 006 , **Latitude** 40° 30' 30.00" , **Longitude** -79° 11' 48.00" , **River Mile Index** 0.7600 , **Stream Code** 44076

Receiving Waters: Unnamed Tributary to Two Lick Creek

Type of Effluent: Sources monitored at Internal Monitoring Points 106 and 406

1. The permittee is authorized to discharge during the period from **three years after the Permit Effective Date** through **Permit Expiration Date**. (5)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Annual	Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Precipitation (inches)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Precipitation (inches)	XXX	Report Total Mo	XXX	XXX	XXX	XXX	1/month	Calculation
Total Aluminum (Total Load, lbs)	XXX	6,326	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	12,653	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	8,438	XXX	XXX	XXX	XXX	1/year	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

See Footnote 6

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. H. Internal Monitoring Point 106

Receiving Waters: Unnamed Stream through Outfall 006

Type of Effluent: Storm water from a basin collecting runoff from the south side of Unit #3 and FGD areas

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Estimate
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	XXX	Report	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Kjeldahl Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

IMP 106 , Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Internal Monitoring Point 106

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. I. Internal Monitoring Point 406

Receiving Waters: Unnamed Stream through Outfall 006

Type of Effluent: Storm water from a basin collecting lime unloading area and railroad siding runoff

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Estimate
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	XXX	Report	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Kjeldahl Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

IMP 406 , Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 406

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. J. For Outfall 013 **, Latitude** 40° 31' 5.00" **, Longitude** -79° 12' 46.00" **, River Mile Index** 0.67 **, Stream Code** 44071

Receiving Waters: Unnamed Tributary of Blacklick Creek

Type of Effluent: Storm water runoff from the ash landfill's east and west perimeter channels and sources monitored at IMPs 213, 613 and 813

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **three years after the Permit Effective Date**. (5)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/week	Grab
Total Suspended Solids	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Manganese, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab

Outfall 013, Continued (from Permit Effective Date through three years after the Permit Effective Date) (5)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 013

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. K. For Outfall 013 **, Latitude** 40° 31' 5.00" **, Longitude** -79° 12' 46.00" **, River Mile Index** 0.67 **, Stream Code** 44071

Receiving Waters: Unnamed Tributary of Blacklick Creek

Type of Effluent: Storm water runoff from the ash landfill's east and west perimeter channels and sources monitored at IMPs 213, 613 and 813

1. The permittee is authorized to discharge during the period from **three years after the Permit Effective Date** through **Permit Expiration Date**. (5)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/week	Grab
Total Suspended Solids	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Total Aluminum (Total Load, lbs)	XXX	2,117 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Total Iron (Total Load, lbs)	XXX	4,235 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Manganese, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab

Outfall 013, Continued (from three years after the Permit Effective Date through Permit Expiration Date) (5)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Total Manganese (Total Load, lbs)	XXX	2,823 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 013

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. L. Internal Monitoring Point 213

Receiving Waters: Unnamed Tributary to Blacklick Creek

Type of Effluent: Principal spillway discharge of storm water runoff from non-waste-contact areas at the coal combustion waste landfill collected in Sedimentation Basin No. 1

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Manganese, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Internal Monitoring Point 213

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. M. Internal Monitoring Point 613

Receiving Waters: Unnamed Tributary to Blacklick Creek through Outfall 013

Type of Effluent: Principal spillway discharge of storm water runoff from non-waste-contact areas at the coal combustion waste landfill collected in Sedimentation Basin No. 2

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Manganese, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Internal Monitoring Point 613

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. N. Internal Monitoring Point 813

Receiving Waters: Unnamed Tributary to Blacklick Creek through Outfall 013

Type of Effluent: Principal spillway discharge of storm water runoff from non-waste-contact areas at the coal combustion waste landfill collected in Sedimentation Basin No. 3

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Manganese, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Internal Monitoring Point 813

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. O. **For Outfall** 017 , **Latitude** 40° 30' 57.00" , **Longitude** -79° 11' 35.00" , **River Mile Index** 0.9200 , **Stream Code** 44075

Receiving Waters: Unnamed Tributary of Two Lick Creek

Type of Effluent: Storm water runoff from substation area

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Estimate
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	XXX	Report	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Outfall 017, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 017

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. P. **For Outfall** 018 , **Latitude** 40° 30' 52.00" , **Longitude** -79° 11' 18.00" , **River Mile Index** 0.8400 , **Stream Code** 44075

Receiving Waters: Unnamed Tributary of Two Lick Creek

Type of Effluent: Clearwell overflow of treated cooling tower make-up water including treated river water, leachate from the and ash landfill and the Homer City Coal Cleaning Plant, filtrate from dewatering operations, and recycled storm water from the Greenhouse Pond

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/week	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	70.0	XXX	1/week	Grab
Oil and Grease	XXX	XXX	XXX	15.0	20.0	30.0	1/week	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	0.75	1/week	Grab
Total Aluminum (Total Load, lbs) (3)	XXX	914 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Iron, Total	XXX	XXX	XXX	1.5	3.0	3.75	1/week	Grab
Total Iron (Total Load, lbs) (3)	XXX	1,828 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Manganese, Total	XXX	XXX	XXX	1.0	2.0	2.5	1/week	Grab
Total Manganese (Total Load, lbs) (3)	XXX	1,218 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation

Outfall 018, 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	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Total Manganese (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Thallium, Total	XXX	XXX	XXX	0.002	0.002	XXX	1/week	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 018

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. Q. **For Outfall** 019 , **Latitude** 40° 30' 55.00" , **Longitude** -79° 11' 35.00" , **River Mile Index** 0.9200 , **Stream Code** 44075

Receiving Waters: Unnamed Tributary of Two Lick Creek

Type of Effluent: Storm water runoff from parking lot and roof drains at Manhole N-13

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Estimate
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	XXX	Report	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 019, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 019

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. R. **For Outfall** 021 , **Latitude** 40° 30' 51.00" , **Longitude** -79° 11' 7.00" , **River Mile Index** 0.1600 , **Stream Code** 44080

Receiving Waters: Cherry Run

Type of Effluent: Storm water runoff from make-up clarifier areas

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **three years after the Permit Effective Date**. (5)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Estimate
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	XXX	Report	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Outfall 021, Continued (from Permit Effective Date through three years after the Permit Effective Date)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 021

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. S. **For Outfall** 021 , **Latitude** 40° 30' 51.00" , **Longitude** -79° 11' 7.00" , **River Mile Index** 0.1600 , **Stream Code** 44080

Receiving Waters: Cherry Run

Type of Effluent: Storm water runoff from make-up clarifier areas

1. The permittee is authorized to discharge during the period from **three years after the Permit Effective Date** through **Permit Expiration Date**. (5)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Estimate
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	XXX	Report	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum (Total Load, lbs)	XXX	192 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron (Total Load, lbs)	XXX	383 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Outfall 021, Continued (from three years after the Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Manganese (Total Load, lbs)	XXX	256 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 021

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. T. **For Outfall** 022 , **Latitude** 40° 30' 34.90" , **Longitude** -79° 11' 35.40" , **River Mile Index** 0.4900 , **Stream Code** 44075

Receiving Waters: Unnamed Tributary of Two Lick Creek

Type of Effluent: Storm water runoff by Power Plant Road near the bottom of King's Hill

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Estimate
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	XXX	Report	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Outfall 022, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 022

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. U. **For Outfall** 023 , **Latitude** 40° 31' 6.00" , **Longitude** -79° 12' 24.00" , **River Mile Index** 0.4700 , **Stream Code** 44072

Receiving Waters: Unnamed Tributary of Blacklick Creek

Type of Effluent: Storm water runoff from the coal truck gate entrance and dust control water runoff

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	2/month	Measured
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	35.0	70.0	90.0	2/month	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Iron, Total	XXX	XXX	XXX	1.5	3.0	3.75	2/month	Grab
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Manganese, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Outfall 023, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 023

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. V. **For Outfall** 025 , **Latitude** 40° 30' 51.00" , **Longitude** -79° 11' 34.00" , **River Mile Index** 0.9200 , **Stream Code** 44075

Receiving Waters: Unnamed Tributary of Two Lick Creek

Type of Effluent: Storm water runoff from industrial waste treatment facility area

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Estimate
Total Flow (Total Volume, Mgal)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Flow (Total Volume, Mgal)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	XXX	Report	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Outfall 025, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations (6)						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Semi-Annual	Minimum	Semi-Annual Average	Daily Maximum	Instant. Maximum (7)		
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/6 months	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 025

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. W. **For Outfall** 027 , **Latitude** 40° 28' 55.00" , **Longitude** -79° 11' 35.00" , **River Mile Index** 10.7200 , **Stream Code** 43979

Receiving Waters: Blacklick Creek

Type of Effluent: Unit #3 flue gas desulfurization scrubber blowdown

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **59 months after the Permit Effective Date**. (4)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/week	Grab
Temperature (°F)	XXX	XXX	XXX	XXX	XXX	110	1/week	I-S
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	25.0	50.0	XXX	1/week	24-Hr Composite
Total Suspended Solids	XXX	XXX	XXX	30.0	100.0	XXX	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Osmotic Pressure (mOs/kg)	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	15.0	20.0	30.0	1/week	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Aluminum (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite

Outfall 027, Continued (from Permit Effective Date through 59 months after the Permit Effective Date) [4]

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) [1]		Concentrations (mg/L)				Minimum [2] Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum [7]		
Beryllium, Total	XXX	XXX	XXX	0.8	1.6	XXX	1/week	24-Hr Composite
Boron, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Cyanide, Free	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Iron (Total Load, lbs) [3]	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs) [3]	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Lead, Total	XXX	XXX	XXX	0.1	0.2	XXX	1/week	24-Hr Composite
Manganese, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Manganese (Total Load, lbs) [3]	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs) [3]	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Mercury, Total (ng/L)	XXX	XXX	XXX	Report	Report	XXX	1/week	4 Grabs/24 Hours
Selenium, Total	XXX	XXX	XXX	0.8	1.6	XXX	1/week	24-Hr Composite
Bromide	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
MBAS	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 027

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. X. **For Outfall** 027 , **Latitude** 40° 28' 55.00" , **Longitude** -79° 11' 35.00" , **River Mile Index** 10.7200 , **Stream Code** 43979

Receiving Waters: Blacklick Creek

Type of Effluent: Unit #3 flue gas desulfurization scrubber blowdown

1. The permittee is authorized to discharge during the period from **59 months after the Permit Effective Date** through **Permit Expiration Date**. (4)

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/week	Grab
Temperature (°F)	XXX	XXX	XXX	XXX	XXX	110	1/week	I-S
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	25.0	50.0	XXX	1/week	24-Hr Composite
Total Suspended Solids	XXX	XXX	XXX	30.0	100.0	XXX	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	149.0	306.0	XXX	1/week	24-Hr Composite
Osmotic Pressure (mOs/kg)	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	15.0	20.0	30.0	1/week	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	1.2	2.0	XXX	1/week	24-Hr Composite
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	0.75	1/week	24-Hr Composite
Total Aluminum (Total Load, lbs) (3)	XXX	4,045	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Arsenic, Total	XXX	XXX	XXX	Report	0.005	XXX	1/week	24-Hr Composite

Outfall 027, Continued (from 59 months after the Permit Effective Date through Permit Expiration Date) (4)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Beryllium, Total	XXX	XXX	XXX	0.8	1.6	XXX	1/week	24-Hr Composite
Boron, Total	XXX	XXX	XXX	217.0	339.0	542.5	1/week	24-Hr Composite
Cyanide, Free	XXX	XXX	XXX	0.59	0.92	1.48	1/week	24-Hr Composite
Iron, Total	XXX	XXX	XXX	1.5	3.0	3.75	1/week	24-Hr Composite
Total Iron (Total Load, lbs) (3)	XXX	8,091	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Lead, Total	XXX	XXX	XXX	0.1	0.2	XXX	1/week	24-Hr Composite
Manganese, Total	XXX	XXX	XXX	1.0	2.0	2.5	1/week	24-Hr Composite
Total Manganese (Total Load, lbs) (3)	XXX	5,395	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Load, lbs) (3)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Mercury, Total (ng/L)	XXX	XXX	XXX	10.0	23.0	XXX	1/week	4 Grabs/24 Hours
Selenium, Total	XXX	XXX	XXX	Report	0.010	XXX	1/week	24-Hr Composite
Bromide	XXX	XXX	XXX	Report	0.2	XXX	1/week	24-Hr Composite
MBAS	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 027

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. Y. **For Outfall** 030 , **Latitude** 40° 31' 30.00" , **Longitude** -79° 12' 58.00" , **River Mile Index** 0.5100 , **Stream Code** 44033

Receiving Waters: Unnamed Tributary to Muddy Run

Type of Effluent: Principal spillway discharge of storm water runoff from non-waste-contact areas at the coal combustion waste landfill collected in Sedimentation Basin No. 5

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	0.75	2/month	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Iron, Total	XXX	XXX	XXX	1.5	3.0	3.75	2/month	Grab
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Manganese, Total	XXX	XXX	XXX	1.0	2.0	2.5	2/month	Grab
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation

Outfall 030, 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	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 030

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. Z. **For Outfall** 032 , **Latitude** 40° 31' 47.00" , **Longitude** -79° 12' 58.00" , **River Mile Index** 0.2600 , **Stream Code** 44033

Receiving Waters: Unnamed Tributary to Muddy Run

Type of Effluent: Principal spillway discharge of storm water runoff from non-waste-contact areas at the coal combustion waste landfill collected in Sedimentation Basin No. 4

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	0.75	2/month	Grab
Total Aluminum (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Aluminum (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Iron, Total	XXX	XXX	XXX	1.5	3.0	3.75	2/month	Grab
Total Iron (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Manganese, Total	XXX	XXX	XXX	1.0	2.0	2.5	2/month	Grab
Total Manganese (Total Load, lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation

Outfall 032, 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	Total Monthly	Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum (7)		
Total Manganese (Total Load, lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 032

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS (Continued)

Additional Requirements

The permittee may not discharge:

1. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water. (25 Pa Code § 92a.41(c))

2. Oil and grease in amounts that cause a film or sheen upon or discoloration of the waters of this Commonwealth or adjoining shoreline, or that exceed 15 mg/l as a daily average or 30 mg/l at any time (or lesser amounts if specified in this permit). (25 Pa. Code § 92a.47(a)(7), § 95.2(2))

3. Substances in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa Code § 93.6(a))

4. Foam or substances that produce an observed change in the color, taste, odor or turbidity of the receiving water, unless those conditions are otherwise controlled through effluent limitations or other requirements in this permit. For the purpose of determining compliance with this condition, DEP will compare conditions in the receiving water upstream of the discharge to conditions in the receiving water approximately 100 feet downstream of the discharge to determine if there is an observable change in the receiving water. (25 Pa Code § 92a.41(c))

Footnotes

(1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured/estimated and recorded consistent with the specified sample type for flow at each outfall.

(2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

(3) Total Monthly and Total Annual Loads for aluminum, iron, and manganese at Outfalls 001, 018 and 027 shall be calculated using the methodology in Part C, Condition V.D of this permit.

(4) Refer to Condition III in Part C of this permit for schedule of compliance requirements for Outfalls 001 and 027.

(5) Refer to Condition IV in Part C of this permit for schedule of compliance requirements for Total Maximum Daily Load limits.

(6) Refer to Condition V in Part C of this permit for Total Maximum Daily Load compliance requirements.

(7) The permittee is not required to monitor for compliance with the instantaneous maximum limitations if a composite sample type is required for the corresponding parameter. Instantaneous maximum limitations for parameters with a composite sample type are imposed to allow for a grab sample to be collected by the appropriate regulatory agency to determine compliance.

(8) Effluent at Outfall 001 shall only be analyzed for Chromium and Zinc when Chromium and Zinc-based additives are added to the cooling water.

Supplemental Information

The effluent limitations for Outfalls 001, 018, and 027 were determined using effluent discharge rates of 4.23 MGD, 2.14 MGD, and 0.14 MGD, respectively.

II. DEFINITIONS

At Outfall (XXX) means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit. (40 CFR 122.41(l)(4)(iii))

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollutant loading to surface waters of the Commonwealth. The term also includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. The term includes activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during and after earth disturbance activities. (25 Pa. Code § 92a.2)

Bypass means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR 122.41(m)(1)(i))

Calendar Week is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by DEP to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

Clean Water Act means the Federal Water Pollution Control Act, as amended. (33 U.S.C.A. §§ 1251 to 1387).

Chemical Additive means a chemical product (including products of disassociation and degradation, collectively "products") introduced into a waste stream that is used for cleaning, disinfecting, or maintenance and which may be detected in effluent discharged to waters of the Commonwealth. The term generally excludes chemicals used for neutralization of waste streams, the production of goods, and treatment of wastewater.

Composite Sample (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters (mL) each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite. (EPA Form 2C)

Composite Sample (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). A separate analysis should be performed for each sample and the results should be averaged.

Daily Average Temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Daily Maximum Discharge Limitation means the highest allowable "daily discharge."

Discharge Monitoring Report (DMR) means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Estimated Flow means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.

Geometric Mean means the average of a set of n sample results given by the nth root of their product.

Grab Sample means an individual sample of at least 100 mL collected at a randomly selected time over a period not to exceed 15 minutes. (EPA Form 2C)

Hazardous Substance means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. (40 CFR 122.2)

Hauled-In Wastes means any waste that is introduced into a treatment facility through any method other than a direct connection to the wastewater collection system. The term includes wastes transported to and disposed of within the treatment facility or other entry points within the collection system.

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Instantaneous Maximum Effluent Limitation means the highest allowable discharge of a concentration or mass of a substance at any one time as measured by a grab sample. (25 Pa. Code § 92a.2)

Measured Flow means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. (25 Pa. Code § 92a.2)

Municipal Waste means garbage, refuse, industrial lunchroom or office waste and other material, including solid, liquid, semisolid or contained gaseous material resulting from operation of residential, municipal, commercial or institutional establishments and from community activities; and sludge not meeting the definition of residual or hazardous waste under this section from a municipal, commercial or institutional water supply treatment plant, waste water treatment plant or air pollution control facility. (25 Pa. Code § 271.1)

Non-contact Cooling Water means water used to reduce temperature which does not come in direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

Residual Waste means garbage, refuse, other discarded material or other waste, including solid, liquid, semisolid or contained gaseous materials resulting from industrial, mining and agricultural operations and sludge from an industrial, mining or agricultural water supply treatment facility, wastewater treatment facility or air pollution control facility, if it is not hazardous. The term does not include coal refuse as defined in the Coal Refuse Disposal Control Act. The term does not include treatment sludges from coal mine drainage treatment plants, disposal of which is being carried on under and in compliance with a valid permit issued under the Clean Streams Law. (25 Pa Code § 287.1)

Severe Property Damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 CFR 122.41(m)(1)(ii))

Stormwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. (25 Pa. Code § 92a.2)

Stormwater Associated With Industrial Activity means the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant, and as defined at 40 CFR 122.26(b)(14) (i) - (ix) & (xi) and 25 Pa. Code § 92a.2.

Total Dissolved Solids means the total dissolved (filterable) solids as determined by use of the method specified in 40 CFR Part 136.

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. (25 Pa. Code § 92a.2)

III. SELF-MONITORING, REPORTING AND RECORDKEEPING

A. Representative Sampling

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity (40 CFR 122.41(j)(1)). Representative sampling includes the collection of samples, where possible, during periods of adverse weather, changes in treatment plant performance and changes in treatment plant loading. If possible, effluent samples must be collected where the effluent is well mixed near the center of the discharge conveyance and at the approximate mid-depth point, where the turbulence is at a maximum and the settlement of solids is minimized. (40 CFR 122.48, 25 Pa. Code § 92a.61)

2. Records Retention (40 CFR 122.41(j)(2))

   Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least 5 years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years from the date of the sample measurement, report or application, unless a longer retention period is required by the permit. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results (40 CFR 122.41(j)(3))

   For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

   a. The exact place, date and time of sampling or measurements.
   b. The person(s) who performed the sampling or measurements.
   c. The date(s) the analyses were performed.
   d. The person(s) who performed the analyses.
   e. The analytical techniques or methods used; and the associated detection level.
   f. The results of such analyses.

4. Test Procedures

   a. Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa. C.S. §§ 4101-4113) and 25 Pa. Code Chapter 252, relating to environmental laboratory accreditation.

   b. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be those approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, unless the method is specified in this permit or has been otherwise approved in writing by DEP. (40 CFR 122.41(j)(4), 122.44(i)(1)(iv))

   c. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be sufficiently sensitive. A method is sufficiently sensitive when 1) the method minimum level is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or 2) the method has the lowest minimum level of the analytical methods approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, for the measured pollutant or pollutant parameter; or 3) the method is specified in this permit or has been otherwise approved in writing by DEP for the measured pollutant or pollutant parameter. Permittees have the option of providing matrix or sample-specific minimum levels rather than the published levels. (40 CFR 122.44(i)(1)(iv))

5. Quality/Assurance/Control

In an effort to assure accurate self-monitoring analyses results:

a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. (40 CFR 122.41(e), 122.41(i)(3))

b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136. (40 CFR 122.41(j)(4))

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.44, 92a.61(i) and 40 CFR §§ 122.41(e), 122.44(i)(1))

2. The permittee shall use DEP's electronic Discharge Monitoring Report (eDMR) system to report the results of compliance monitoring under this permit (see www.dep.pa.gov/edmr). Permittees that are not using the eDMR system as of the effective date of this permit shall submit the necessary registration and trading partner agreement forms to DEP's Bureau of Clean Water (BCW) within 30 days of the effective date of this permit and begin using the eDMR system when notified by DEP BCW to do so. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))

3. Submission of a physical (paper) copy of a Discharge Monitoring Report (DMR) is acceptable under the following circumstances:

a. For a permittee that is not yet using the eDMR system, the permittee shall submit a physical copy of a DMR to the DEP regional office that issued the permit during the interim period between the submission of registration and trading partner agreement forms to DEP and DEP's notification to begin using the eDMR system.

b. For any permittee, as a contingency a physical DMR may be mailed to the DEP regional office that issued the permit if there are technological malfunction(s) that prevent the successful submission of a DMR through the eDMR system. In such situations, the permittee shall submit the DMR through the eDMR system within 5 days following remedy of the malfunction(s).

4. DMRs must be completed in accordance with DEP's published DMR instructions (3800-FM-BCW0463). DMRs must be received by DEP no later than 28 days following the end of the monitoring period. DMRs are based on calendar reporting periods and must be received by DEP in accordance with the following schedule:

- Monthly DMRs must be received within 28 days following the end of each calendar month.
- Quarterly DMRs must be received within 28 days following the end of each calendar quarter, i.e., January 28, April 28, July 28, and October 28.
- Semiannual DMRs must be received within 28 days following the end of each calendar semiannual period, i.e., January 28 and July 28.
- Annual DMRs must be received by January 28, unless Part C of this permit requires otherwise.

5. The permittee shall complete all Supplemental Reporting forms (Supplemental DMRs) attached to this permit, or an approved equivalent, and submit the signed, completed forms as attachments to the DMR, through DEP's eDMR system. DEP's Supplemental Laboratory Accreditation Form (3800-FM-BCW0189) must be completed and submitted to DEP with the first DMR following issuance of this permit, and anytime thereafter when changes to laboratories or methods occur. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))

6. The completed DMR Form shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92a.22:

- For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
- For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
- For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.

If signed by a person other than the above and for co-permittees, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form. (40 CFR § 122.22(b))

7. If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in Part A III.A.4. herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR. (40 CFR 122.41(l)(4)(ii))

C. Reporting Requirements

1. Planned Changes to Physical Facilities – The permittee shall give notice to DEP as soon as possible but no later than 30 days prior to planned physical alterations or additions to the permitted facility. A permit under 25 Pa. Code Chapter 91 may be required for these situations prior to implementing the planned changes. A permit application, or other written submission to DEP, can be used to satisfy the notification requirements of this section.

   Notice is required when:

   a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b). (40 CFR 122.41(l)(1)(i))

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in this permit. (40 CFR 122.41(l)(1)(ii))

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 CFR 122.41(l)(1)(iii))

   d. The planned change may result in noncompliance with permit requirements. (40 CFR 122.41(l)(2))

2. Planned Changes to Waste Stream – Under the authority of 25 Pa. Code § 92a.24(a), the permittee shall provide notice to DEP as soon as possible but no later than 45 days prior to any planned changes in the volume or pollutant concentration of its influent waste stream, as specified in paragraphs 2.a. and 2.b., below. Notice shall be provided on the “Planned Changes to Waste Stream” Supplemental Report (3800-FM-BCW0482), available on DEP’s website. The permittee shall provide information on the quality and quantity of waste introduced into the facility, and any anticipated impact of the change on the quantity or quality of effluent to be discharged from the facility. The Report shall be sent via Certified Mail or other means to confirm DEP’s receipt of the notification. DEP will determine if the submission of a new application and receipt of a new or amended permit is required.

   a. Introduction of New Pollutants (25 Pa. Code § 92a.24(a))

      New pollutants are defined as parameters that meet all of the following criteria:

      (i) Were not detected in the facilities’ influent waste stream as reported in the permit application; and

(ii) Have not been approved to be included in the permittee's influent waste stream by DEP in writing.

The permittee shall provide notification of the introduction of new pollutants in accordance with paragraph 2 above. The permittee may not authorize the introduction of new pollutants until the permittee receives DEP's written approval.

b. Increased Loading of Approved Pollutants (25 Pa. Code § 92a.24(a))

Approved pollutants are defined as parameters that meet one or more of the following criteria:

(i) Were detected in the facilities' influent waste stream as reported in the permittee's permit application; or

(ii) Have been approved to be included in the permittee's influent waste stream by DEP in writing; or

(iii) Have an effluent limitation or monitoring requirement in this permit.

The permittee shall provide notification of the introduction of increased influent loading (lbs/day) of approved pollutants in accordance with paragraph 2 above when (1) the cumulative increase in influent loading (lbs/day) exceeds 20% of the maximum loading reported in the permit application, or a loading previously approved by DEP, or (2) may cause an exceedance in the effluent of Effluent Limitation Guidelines (ELGs) or limitations in Part A of this permit, or (3) may cause interference or pass through at the facility, or (4) may cause exceedances of the applicable water quality standards in the receiving stream. Unless specified otherwise in this permit, if DEP does not respond to the notification within 30 days of its receipt, the permittee may proceed with the increase in loading. The acceptance of increased loading of approved pollutants may not result in an exceedance of ELGs or effluent limitations and may not cause exceedances of the applicable water quality standards in the receiving stream.

3. Reporting Requirements for Hauled-In Wastes

a. Receipt of Residual Waste

(i) The permittee shall document the receipt of all hauled-in residual wastes (including but not limited to wastewater from oil and gas wells, food processing waste, and landfill leachate), as defined at 25 Pa. Code § 287.1, that are received for processing at the treatment facility. The permittee shall report hauled-in residual wastes on a monthly basis to DEP on the "Hauled In Residual Wastes" Supplemental Report (3800-FM-BCW0450) as an attachment to the DMR. If no residual wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report. The information used to develop the Report shall be retained by the permittee for five years from the date of receipt and must be made available to DEP or EPA upon request.

(1) The dates that residual wastes were received.

(2) The volume (gallons) of wastes received.

(3) The license plate number of the vehicle transporting the waste to the treatment facility.

(4) The permit number(s) of the well(s) where residual wastes were generated, if applicable.

(5) The name and address of the generator of the residual wastes.

(6) The type of wastewater.

The transporter of residual waste must maintain these and other records as part of the daily operational record (25 Pa. Code § 299.219). If the transporter is unable to provide this information or the permittee has not otherwise received the information from the generator, the residual wastes shall not be accepted by the permittee until such time as the permittee receives such information from the transporter or generator.

(ii) The following conditions apply to the characterization of residual wastes received by the permittee:

(1) If the generator is required to complete a chemical analysis of residual wastes in accordance with 25 Pa. Code § 287.51, the permittee must receive and maintain on file a chemical analysis of the residual wastes it receives. The chemical analysis must conform to the Bureau of Waste Management's Form 26R except as noted in paragraph (2), below. Each load of residual waste received must be covered by a chemical analysis if the generator is required to complete it.

(2) For wastewater generated from hydraulic fracturing operations ("frac wastewater") within the first 30 production days of a well site, the chemical analysis may be a general frac wastewater characterization approved by DEP. Thereafter, the chemical analysis must be waste-specific and be reported on the Form 26R.

b. Receipt of Municipal Waste

(i) The permittee shall document the receipt of all hauled-in municipal wastes (including but not limited to septage and liquid sewage sludge), as defined at 25 Pa. Code § 271.1, that are received for processing at the treatment facility. The permittee shall report hauled-in municipal wastes on a monthly basis to DEP on the "Hauled In Municipal Wastes" Supplemental Report (3800-FM-BCW0437) as an attachment to the DMR. If no municipal wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report:

(1) The dates that municipal wastes were received.

(2) The volume (gallons) of wastes received.

(3) The BOD_5 concentration (mg/l) and load (lbs) for the wastes received.

(4) The location(s) where wastes were disposed of within the treatment facility.

(ii) Sampling and analysis of hauled-in municipal wastes must be completed to characterize the organic strength of the wastes, unless composite sampling of influent wastewater is performed at a location downstream of the point of entry for the wastes.

4. Unanticipated Noncompliance or Potential Pollution Reporting

a. Immediate Reporting - The permittee shall immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b).

(i) If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify DEP by telephone of the location and nature of the danger. Oral notification to the Department is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution.

(ii) If reasonably possible to do so, the permittee shall immediately notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger.

(iii) The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.

b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 CFR 122.41(l)(6). These requirements include the following obligations:

(i) 24 Hour Reporting - The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Any upset which exceeds any effluent limitation in the permit; and

(3) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hour reporting requirement. (40 CFR 122.44(g))

(ii) Written Report - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

(iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by DEP, the permittee shall submit a written report in accordance with this paragraph. (40 CFR 122.41(l)(6)(iii))

5. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.4 of this section or specific requirements of compliance schedules, at the time DMRs are submitted, on the Non-Compliance Reporting Form (3800-FM-BCW0440). The reports shall contain the information listed in paragraph C.4.b.(ii) of this section. (40 CFR 122.41(l)(7))

D. Specific Toxic Pollutant Notification Levels (for Manufacturing, Commercial, Mining, and Silvicultural Direct Dischargers) - The permittee shall notify DEP as soon as it knows or has reason to believe the following: (40 CFR 122.42(a))

1. That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in this permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels": (40 CFR 122.42(a)(1))

a. One hundred micrograms per liter.

b. Two hundred micrograms per liter for acrolein and acrylonitrile.

c. Five hundred micrograms per liter for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol.

d. One milligram per liter for antimony.

e. Five times the maximum concentration value reported for that pollutant in this permit application.

f. Any other notification level established by DEP.

2. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels": (40 CFR 122.42(a)(2))

a. Five hundred micrograms per liter.

b. One milligram per liter for antimony.

c. Ten times the maximum concentration value reported for that pollutant in the permit application.

d. Any other notification level established by DEP.

E. Annual Fee (25 Pa. Code § 92a.62)

Permittees shall pay an annual fee in accordance with 25 Pa. Code § 92a.62. As of the effective date of this permit, the facility covered by the permit is classified in the **Major IW Facility <250 MGD** fee category, which has an annual fee of **$7,500.**

Invoices for annual fees will be mailed to permittees approximately three months prior to the due date. In the event that an invoice is not received, the permittee is nonetheless responsible for payment. Permittees may contact the DEP at 717-787-6744 with questions related to annual fees. The fee identified above is subject to change if DEP publishes changes to 25 Pa. Code § 92a.62.

Payment for annual fees shall be remitted to DEP at the address below or through DEP's electronic payment system (www.depgreenport.state.pa.us/NPDESpay) by the due date specified on the invoice. Checks, if used for payment, should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection
Bureau of Clean Water
Re: Chapter 92a Annual Fee
P.O. Box 8466
Harrisburg, PA 17105-8466

PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance

1. The permittee shall comply with all conditions of this permit. If a compliance schedule has been established in this permit, the permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit. (40 CFR 122.41(a)(1))

2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. (25 Pa. Code § 92a.51(c), 40 CFR 122.47(a)(4))

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with 25 Pa. Code § 92a.72 and 40 CFR 122.41(f).

2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. (40 CFR 122.41(f))

3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. (40 CFR 122.41(a)(1))

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. (40 CFR 122.41(h))

2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. (40 CFR 122.41(h))

3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information. (40 CFR 122.41(l)(8))

D. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. (40 CFR 122.41(e))

E. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR 122.41(d))

F. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions in paragraphs two, three and four of this section. (40 CFR 122.41(m)(2))

2. Other Bypassing - In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:

   a. A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage." (40 CFR 122.41(m)(4)(i)(A))

   b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. (40 CFR 122.41(m)(4)(i)(B))

   c. The permittee submitted the necessary notice required in F.4.a. and b. below. (40 CFR 122.41(m)(4)(i)(C))

3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in F.2. above. (40 CFR 122.41(m)(4)(ii))

4. Notice

   a. Anticipated Bypass – If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the bypass. (40 CFR 122.41(m)(3)(i))

   b. Unanticipated Bypass – The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with Part A III.C.4.b.

G. Termination of Permit Coverage (25 Pa. Code § 92a.74 and 40 CFR 122.64)

1. Notice of Termination (NOT) – If the permittee plans to cease operations or will otherwise no longer require coverage under this permit, the permittee shall submit DEP's NPDES Notice of Termination (NOT) for Permits Issued Under Chapter 92a (3800-BCW-0410), signed in accordance with Part A III.B.6 of this permit, at least 30 days prior to cessation of operations or the date by which coverage is no longer required.

2. Where the permittee plans to cease operations, NOTs must be accompanied with an operation closure plan that identifies how tankage and equipment will be decommissioned and how pollutants will be managed, as applicable.

3. The permittee shall submit the NOT to the DEP regional office with jurisdiction over the county in which the facility is located.

II. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR 122.41(a)(2).

Any person or municipality, who violates any provision of this permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or

- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance)

Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A § 4904 and 40 CFR 122.41(j)(5) and (k)(2).

C. Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603 or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (40 CFR 122.41(c))

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and Title 25 Pa. Code Chapter 92a and 40 CFR 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (40 CFR 122.41(i)(1))

2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; (40 CFR 122.41(i)(2))

3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and (40 CFR 122.41(i)(3))

4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. (40 CFR 122.41(i)(4))

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and

reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (40 CFR 122.61(a))

2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section; (40 CFR 122.61(b)(1))

   b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; (40 CFR 122.61(b)(2))

   c. DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section; and (40 CFR 122.61(b)(3))

   d. The new permittee is in compliance with existing DEP issued permits, regulations, orders and schedules of compliance, or has demonstrated that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with 25 Pa. Code § 92a.51 (relating to schedules of compliance) and other appropriate DEP regulations. (25 Pa. Code § 92a.71)

3. In the event DEP does not approve transfer of this permit, the new owner or operator must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. (40 CFR 122.41(g))

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. (40 CFR 122.41(b))

E. Other Laws

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations.

PART C

I. OTHER REQUIREMENTS

A. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance or replacement of all structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.

B. Collected screenings, slurries, sludges, and other solids shall be handled, recycled and/or disposed of in compliance with the Solid Waste Management Act (35 P.S. §§ 6018.101 – 6018.1003), 25 Pa. Code Chapters 287, 288, 289, 291, 295, 297, and 299 (relating to requirements for landfilling, impoundments, land application, composting, processing, and storage of residual waste), Chapters 261a, 262a, 263a, and 270a (related to identification of hazardous waste, requirements for generators and transporters, and hazardous waste, requirements for generators and transporters, and hazardous waste permit programs), federal regulation 40 CFR Part 257, The Clean Streams Law, and the Federal Clean Water Act and its amendments. Screenings collected at intake structures shall be collected and managed and not be returned to the receiving waters.

The permittee is responsible to obtain or assure that contracted agents have all necessary permits and approvals for the handling, storage, transport and disposal of solid waste materials generated as a result of wastewater treatment.

C. The terms and conditions of Water Quality Management (WQM) permits that may have been issued to the permittee relating to discharge requirements are superseded by this NPDES permit unless otherwise stated herein.

D. If the applicable standard or effluent guideline limitation relating to the application for Best Available Technology (BAT) Economically Achievable or to Best Conventional Technology (BCT) is developed by DEP or EPA for this type of industry, and if such standard or limitation is more stringent than the corresponding limitations of this permit (or if it controls pollutants not covered by this permit), DEP may modify or revoke and reissue the permit to conform with that standard or limitation.

E. Temperature

This discharge shall not cause a change in the stream temperature of more than 2°F during any one hour.

F. Chlorine or other approved biocides may not be discharged from any single generating unit for more than two hours per day unless the discharger demonstrates to the permitting authority that discharges for more than two hours are required for macroinvertebrate control. Simultaneous multi-unit chlorination/biocide application is permitted.

G. There shall be no net addition of pollutants to non-contact cooling water over intake values except for heat and water conditioning additives for which complete information was submitted in the application or is required to be submitted as a condition of this permit.

H. There shall be no discharge of polychlorinated biphenyl (PCB) compounds such as those commonly used for transformer fluid at any time.

I. Cooling tower blowdown discharges shall contain no detectable amounts of the 126 Priority Pollutants listed in 40 CFR Part 423, Appendix A, that are contained in chemicals added for cooling tower maintenance, except for Total Chromium and Total Zinc. When requested by DEP, the permittee shall conduct monitoring or submit engineering calculations to demonstrate compliance with 40 CFR 423.13(d)(1).

K. The permittee shall maintain warning signs at Outfall 001 in a clearly visible location reading "CAUTION! WATER MAY BE HOT! AVOID CONTACT!"

L. The attention of the permittee is directed to the fact that effluent is discharged to locations with little or no assimilative capacity or dilution during critical periods. If the effluent creates a health hazard or nuisance, the permittee shall, upon notice from DEP, provide such additional treatment as may be required by DEP.

M. Osmotic pressure is not a function of weight concentration alone (mg/l); but rather a function of particle concentration (moles/l). Osmolality is specified in terms of milliosmoles/kilogram (mOs/kg).

II. EMERGENCY OVERFLOWS

The following facilities at the Homer City Generating Station (HCGS) and Homer City Coal Cleaning Plant (HCCCP) are designed with emergency overflow spillways:

- Coal Pile Desilting Basin No. 1 (HCGS)
- Coal Pile Desilting Basin No. 2 (HCGS)
- Lime Storage Area Stormwater Basin (HCGS)
- Greenhouse Pond (HCGS)
- Dredge Pond (HCGS)
- Industrial Wastewater Treatment Plant Equalization Pond No. 2 (HCGS)
- Ash Landfill Surge Pond (HCGS)
- Leachate Storage Pond L-1 (HCGS)
- Leachate Storage Pond L-2 (HCGS)
- Leachate Storage Pond L-3 (HCGS)
- Leachate Storage Pond L-4 (HCGS)
- Sedimentation Basin SB-1 (HCGS)
- Sedimentation Basin SB-2 (HCGS)
- Sedimentation Basin SB-3 (HCGS)
- Sedimentation Basin SB-5 (HCGS)
- Sedimentation Basin SB-4 (HCGS)
- Coal Processing Recirculation Pond (HCCCP)

Except as provided by Part B.I.F of this permit regarding bypassing, overflows from the facilities listed above are not authorized by this permit. However, if an overflow occurs from one of the facilities listed above, then the permittee shall submit a written report to DEP within 5 days of any such overflow. The report shall contain the following information for each overflow incident: discharge location, approximate discharge duration; approximate volume of water discharged, the meteorological conditions preceding and during the overflow, an explanation of why the overflow occurred, and whether the overflow qualifies as a bypass pursuant to Part B.I.F of this permit.

The permittee shall sample each overflow once per discharge using grab sampling. Within 30 days of each overflow incident, the permittee shall submit analytical results to DEP for the following parameters: TSS, pH, aluminum, iron, and manganese.

III. SCHEDULE OF COMPLIANCE FOR OUTFALLS 001 AND 027

A. The permittee shall achieve compliance with final effluent limitations or terminate these discharges in accordance with the following schedule:

	Task	Due Date
1.	Perform studies and pilot testing	Within 12 Months of the Permit Effective Date
2.	Engineering Design and Permitting	Within 35 Months of the Permit Effective Date
3.	Bid, Award, and Procure Equipment	Within 42 Months of the Permit Effective Date
4.	Construction, Start-up, and Commissioning	Within 59 Months of the Permit Effective Date

	Task	Due Date
5.	Submit progress reports	Every 6 months starting 6 months after the Permit Effective Date
6.	Compliance with effluent limitations or discharge elimination	59 Months after the Permit Effective Date

B. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit to DEP a written notice of compliance or non-compliance with the specific schedule requirement. Each notice of non-compliance shall include the following information:

1. A short description of the non-compliance.

2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement.

3. A description of any factors which tend to explain or mitigate the non-compliance.

4. An estimate of the date that compliance with the elapsed schedule requirement will be achieved and an assessment of the probability that the next scheduled requirement will be met on time.

IV. SCHEDULE OF COMPLIANCE FOR TOTAL MAXIMUM DAILY LOAD (TMDL) WQBELs

A. Based on the January 29, 2010 EPA approved Final TMDL for the Kiskiminetas and Conemaugh River Watersheds, the WQBELs for aluminum, iron, and manganese at Outfalls 006, 013, and 021 are necessary to protect the receiving streams' designated water uses in the Department's Rules and Regulations.

B. Prior to the effective date of the WQBELs referenced in Paragraph A of this condition, the permittee shall conduct a source reduction evaluation. The purpose of the source reduction evaluation shall be to investigate and identify all non-structural alternatives to reduce pollutants in the discharges assigned WQBELs and to implement all feasible alternatives.

If implementation of source reduction measures does not result in aluminum, iron, and manganese effluent mass loads that are less than the WQBELs for aluminum, iron, and manganese at Outfalls 006, 013, and 021, the permittee shall prepare a Water Quality Management (Part II) permit application for the construction of wastewater treatment systems designed to achieve the WQBELs for aluminum, iron, and manganese.

If the permittee considers treatment to be infeasible, the permittee shall submit a TMDL Implementation Plan to DEP explaining why treatment is infeasible and proposing alternatives to treatment that will ensure that discharges comply with WQBELs for aluminum, iron, and manganese at Outfalls 006, 013, and 021 in Part A of this permit.

C. The permittee shall conduct and implement the source reduction evaluation and comply with the WQBELs according to the following schedule:

1.	Submit and begin implementing a work plan describing its Source Reduction Evaluation	Within 180 days of the Permit Effective Date
2.	Submit a TMDL Implementation Plan, if applicable	Within 1.5 years of the Permit Effective Date
3.	Submit a Water Quality Management (Part II) Permit Application if treatment systems are required.	Within 2.5 years of the Permit Effective Date
4.	Submit progress reports. Reports shall include updates, any progress made toward attainment of milestones,	Every six (6) months starting 180 days after the Permit Effective Date

	summary of results of any supplemental sampling, and a discussion of compliance or non-compliance with interim and final requirements.	
5.	Compliance with final limits.	Three years after the Permit Effective Date

V. TOTAL MAXIMUM DAILY LOAD COMPLIANCE REQUIREMENTS

The permittee shall demonstrate compliance with Total Annual Load effluent limits and report data for Aluminum, Iron, and Manganese at Internal Monitoring Points 106 and 406 and Outfalls 006, 013, 017, 019, 021, 022, 023, and 025 as follows:

A. The permittee shall record and report the Total Monthly Precipitation ("TMP") received at the Homer City Generating Station ("site") using precipitation data from a local weather station or equivalent alternative. At the end of each calendar year, the permittee shall calculate and report the Total Annual Precipitation ("TAP") for the site as the sum of the calendar year's twelve TMP values. TMP and TAP values for the site shall be reported in eDMR at Outfall 006.

B. The permittee shall calculate and report the Total Monthly Flow ("TMF") at Outfalls 013 and 023 and the Total Semi-Annual Flow ("TSF") at Internal Monitoring Points 106 and 406 and Outfalls 017, 019, 021, 022, and 025. TSF shall be calculated for each of the two 6-month periods in a calendar year. The Total Annual Flow ("TAF") at each of those monitoring locations shall be calculated and reported as the sum of the calendar year's twelve TMF or two TSF values, as applicable.

C. TAF at Internal Monitoring Points 106 and 406 and Outfalls 013, 017, 019, 021, 022, 023, and 025 shall be calculated using the SCS Runoff Curve Number Method described in USDA Natural Resource Conservation Service's Technical Release 55 ("TR-55"). The curve number(s) used for the SCS Runoff Curve Number Method must reflect the land uses of the areas draining to each outfall at the time of permit issuance. The Department will approve the selected curve number(s) prior to use and changes to the curve number(s) shall be made only after the permittee provides notification to the Department and the Department confirms the accompanying changes in land use at the facility.

D. The permittee shall report the Total Loads of Aluminum, Iron, and Manganese pursuant to the reporting requirements specified in Part A of this permit. Total Loads for each specified period (month, 6-months, and/or year) shall be calculated using the following formula:

$$\text{Total Load, lbs} = \frac{\left(\begin{matrix}\text{Average Discharge} \\ \text{Concentration for the period}\end{matrix}\ \text{mg/L}\right) \times (\text{Total Flow for the period, gal}) \times (3.785\,\frac{\text{L}}{\text{gal}})}{\left(453{,}590\,\frac{\text{mg}}{\text{lb}}\right)}$$

E. Part A of this permit imposes aggregate Total Annual Load limits at Outfalls 006 and 013 for intermittent storm water discharges in TMDL sub-watersheds (SWS) 4002 and 4348. The Total Annual Loads reported at those outfalls shall be calculated in accordance with the following:

TMDL SWS	Aggregate Total Annual Load Limit in SWS Imposed at:	Aggregate Total Annual Loads calculated as:
4002	Outfall 006	Sum of Total Annual Loads at IMPs 106 and 406 and Outfalls 017, 019, 022, and 025
4348	Outfall 013	Sum of Total Annual Loads at Outfalls 013 and 023

Outfalls in SWS 4002 and SWS 4348 that are not listed in the table above and outfalls in other TMDL SWSs are subject to outfall-specific Total Annual Load limits or concentration limits.

F. The permittee shall comply with the Total Annual Load limits for Aluminum, Iron, and Manganese specified in Part A of this permit or take additional measures to achieve compliance.

G. The calculated Total Annual Load shall be reported on the TMDL Supplemental Report Annual Load Summary. The permittee shall retain records of all calculations required by this condition (including all information used in those calculations) and shall submit those records to the Department with the TMDL Supplemental Report Annual Load Summary.

H. In the drainage areas for Internal Monitoring Points 106 and 406 and Outfalls 013, 017, 019, 021, 022, 023, and 025, the permittee shall implement, at a minimum, the Best Management Practices (BMPs) identified in Part C Condition IX of this permit and any other BMPs necessary to achieve the benchmark values listed in Part C Condition IX.F.6 of this permit.

VI. WQBELs BELOW QUANTITATION LIMITS

A. The parameter(s) listed below are subject to water quality-based effluent limits (WQBELs) in Part A of this permit that are necessary to comply with state water quality standards, but may be less than quantitation limits (QLs), as defined in 25 Pa. Code § 252.1, that are generally achievable by conventional analytical technology. The permittee shall analyze the parameter(s) using methods that will achieve the QL(s) as listed below. For the purpose of compliance, a statistical value reported on the DMR that is less than the QL(s) (i.e., "non-detect") will be considered to be in compliance.

Parameter Name	Quantitation Limit
Thallium, Total	2.0 µg/L

B. The permittee shall, where determined to be feasible by the permittee, achieve a QL less than the QL identified above to improve the level of confidence that state water quality standards are being met in the receiving waters.

C. The permittee shall manage non-detect values and report statistical results to DEP in accordance with published DMR guidance (3800-BK-DEP3047 and 3800-FS-DEP4262). Where a mixed data set exists containing non-detect results and "detected" values (i.e., results greater than or equal to the QL), the QL shall be used for non-detect results to compute average statistical results.

VII. CHEMICAL ADDITIVES

A. Approved Chemical Additives List

1. The permittee is authorized to use chemical additives that are published on DEP's Approved Chemical Additives List (Approved List) (see www.dep.pa.gov/chemicaladditives) subject to paragraphs A.2 and A.3, below.

2. The permittee may not discharge a chemical additive at a concentration that is greater than the water quality-based effluent limitation (WQBEL) for the chemical additive or, if applicable, a technology-based effluent limitation. If effluent limitations are not specified in Part A of this permit for the chemical additive, the permittee is responsible for determining the WQBEL and ensuring the WQBEL is not exceeded by restricting usage to an amount that will not cause an excursion above in-stream water quality standards.

3. If the permittee decides to use a chemical additive that is on DEP's Approved List and the use would either (1) constitute an increase in the usage rate specified in the NPDES permit application or previous notification to DEP or (2) constitute a new use, not identified in the NPDES permit application or otherwise no previous notification occurred, the permittee shall complete and submit the "Chemical Additives Notification Form" (3800-FM-BCW0487) to the DEP regional office that issued the permit. The permittee may proceed to use the chemical additive as reported on the Form upon receipt by the DEP regional office.

B. New Chemical Additives, Not on Approved Chemical Additives List

1. In the event the permittee wishes to use a chemical additive that is not listed on DEP's Approved List, the permittee shall submit the "New Chemical Additives Request Form" (3800-FM-BCW0486) to DEP's

Central Office, Bureau of Clean Water (BCW), NPDES Permitting Division, Rachel Carson State Office Building, PO Box 8774, Harrisburg, PA 17105-8774, prior to use. A copy shall be submitted to the DEP regional office that issued the permit. The form must be completed in whole in order for BCW to approve the chemical additive, and a Material Safety Data Sheet (MSDS) that meets the minimum requirements of 29 CFR 1910.1200(g) must be attached.

2. Following placement of the chemical additive on the Approved List, the permittee may submit the Chemical Additive Notification Form in accordance with paragraph A.3, above, to notify DEP of the intent to use the approved chemical additive. The permittee may proceed with usage when the new chemical has been identified on DEP's Approved List and following DEP's receipt of the Chemical Additives Notification Form.

3. The permittee shall restrict usage of chemical additives to the maximum usage rates determined and reported to DEP on Chemical Additives Notification Forms.

C. Chemical Additives Usage Reporting Requirements

The "Chemical Additives Usage Form" (3800-FM-BCW0439) shall be used to report the usage of chemical additives and shall be submitted as an attachment to the Discharge Monitoring Report (DMR) at the time the DMR is submitted.

D. DEP may amend this permit to include WQBELs or otherwise control usage rates of chemical additives if there is evidence that usage is adversely affecting receiving waters, producing Whole Effluent Toxicity test failures, or is causing excursions of in-stream water quality standards.

VIII. REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS

A. The permittee is authorized to discharge non-polluting stormwater from its site, alone or in combination with other wastewaters.

B. Stormwater Annual Report.

The permittee shall submit a complete Annual Report to the DEP office that issued the permit by May 1 each year using DEP's Annual Report template, attached to this permit. The Annual Report shall address activities under the permit for the previous calendar year. The permittee shall submit the Annual Report electronically if notified by DEP in writing. If the permittee discharges to a municipal separate storm sewer system (MS4), a copy of the Annual Report shall be submitted to the operator of the MS4.

C. Best Management Practices (BMPs).

The permittee shall implement and, as necessary, maintain the following BMPs to remain in compliance with this permit.

1. Pollution Prevention and Exposure Minimization.

The permittee shall minimize the exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and runoff in order to minimize pollutant discharges by either locating industrial materials and activities inside or protecting them with storm resistant coverings wherever feasible. The permittee shall implement and maintain the following measures, at a minimum:

a. Use grading, berming or curbing to prevent runoff of polluted stormwater and divert run-on away from areas that contain polluted stormwater

b. Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge to surface waters

c. Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of

pollutants to surface waters

d. Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents to prevent the release of pollutants to the environment.

e. Use spill/overflow protection equipment.

f. Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray.

g. Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks.

h. Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids, ensure that discharges have a control (e.g., secondary containment, treatment). This General Permit does not authorize dry weather discharges from dumpsters or roll off boxes.

i. Minimize contamination of stormwater runoff from fueling areas by implementing the following BMPs where determined to be feasible: cover fueling areas; install oil/water separators or oil and grease traps in fueling area storm drains; use berms to prevent run-on to and runoff from fueling areas; use spill/overflow protection and cleanup equipment; use dry cleanup methods; and/or treat and/or recycle collected stormwater runoff.

j. Train employees routinely (no less than annually) on pollution prevention practices as contained in the PPC Plan.

2. Good Housekeeping.

The permittee shall perform good housekeeping measures in order to minimize pollutant discharges including the routine implementation of the following measures, at a minimum:

a. Implement a routine cleaning and maintenance program for all impervious areas of the facility where particulate matter, dust or debris may accumulate to minimize the discharge of pollutants in stormwater. The cleaning and maintenance program must encompass, as appropriate, areas where material loading and unloading, storage, handling and processing occur.

b. Store materials in appropriate containers.

c. Minimize the potential for waste, garbage and floatable debris to be discharged by keeping exposed areas free of such materials, or by intercepting them before they are discharged.

d. Eliminate floor drain connections to storm sewers.

e. Use drip pans, drain boards, and drying racks to direct drips back into a fluid holding tank for reuse. Drain fluids from all equipment and parts prior to disposal. Promptly transfer used fluids to the proper container; do not leave full drip pans or other open containers around the shop. Empty and clean drip pans and containers.

f. Label and track the recycling of waste material (e.g., used oil, spent solvents, batteries).

g. Prohibit the practice of hosing down an area where the practice would result in the discharge of pollutants to a municipal or other storm water collection system that conveys pollutants off-site without proper treatment.

3. Erosion and Sediment Controls.

a. The permittee shall minimize erosion and pollutant discharges by stabilizing exposed soils and placing flow velocity dissipation devices at discharge locations to minimize channel and stream bank

erosion and scour in the immediate vicinity of stormwater outfalls.

b. The permittee shall conduct all earth disturbance activities and, when applicable, shall maintain all post-construction stormwater management (PCSM) BMPs in accordance with 25 Pa. Code Chapter 102.

c. The permittee may not utilize polymers or other chemicals to treat stormwater unless written permission is obtained from DEP.

4. Spill Prevention and Responses.

The permittee shall minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop a PPC Plan for effective responses to such releases. The permittee shall conduct the following spill prevention and response measures, at a minimum:

a. Maintain an organized inventory of materials on-site. Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur.

b. Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas.

c. Develop and implement employee and contractor training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. The permittee shall conduct periodic training, no less than annually, and document the training on the Annual Report specified in paragraph B of this section.

d. Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made.

e. Notify appropriate facility personnel when a leak, spill, or other release occurs.

f. To the extent possible, eliminate or reduce the number and amount of hazardous materials and waste by substituting non-hazardous or less hazardous materials of equal function, as determined by the permittee.

g. Clean up leaks, drips, and other spills without using large amounts of water or liquid cleaners. Use absorbents for dry cleanup whenever possible.

When a leak, spill or other release occurs during a 24-hour period that contains a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under 40 CFR Parts 110, 117 or 302, the permittee shall, in addition to the notification requirements contained in Part A III.C.4 of this permit, notify the National Response Center (NRC) at (800) 424-8802 in accordance with the requirements of 40 CFR Parts 110, 117, and 302 as soon as the permittee becomes aware of the discharge.

5. Sector- and Site-Specific BMPs.

a. The permittee shall implement the BMPs in the applicable Appendix to the NPDES PAG-03 General Permit for Discharges of Stormwater Associated with Industrial Activities that is currently in effect.

b. Fugitive Dust Emissions. Minimize fugitive dust emissions from coal handling areas to minimize the tracking of coal dust off-site that could be discharged in stormwater through implementation of control measures including but not limited to the following: install specially designed tires; and wash vehicles in a designated area before they leave the site and control the wash water.

c. Delivery Vehicles. Minimize contamination of stormwater runoff from delivery vehicles arriving at the plant site. Implement procedures to inspect delivery vehicles arriving at the plant site as

necessary to minimize discharges of pollutants in stormwater. Ensure the overall integrity of the body or container of the delivery vehicle and implement procedures to deal with leakage or spillage from delivery vehicles.

d. Fuel Oil Unloading Areas. Minimize contamination of precipitation or surface runoff from fuel oil unloading areas. Use containment curbs in unloading areas where feasible. In addition, ensure personnel familiar with spill prevention and response procedures are available to respond expeditiously in the event of a leak or spill during deliveries. Ensure that any leaks or spills are immediately contained and cleaned up, and use spill and overflow protection devices (e.g., drip pans, drip diapers, or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

e. Chemical Loading and Unloading. Minimize contamination of precipitation or surface runoff from chemical loading and unloading areas. Use containment curbs at chemical loading and unloading areas to contain spills, where practicable. In addition, ensure personnel familiar with spill prevention and response procedures are available to respond expeditiously in the event of a leak or spill during deliveries. Ensure leaks and spills are immediately contained and cleaned up and, where practicable, load and unload in covered areas and store chemicals indoors.

f. Miscellaneous Loading and Unloading Areas. Minimize contamination of precipitation or surface runoff from loading and unloading areas through implementation of control measures including but not limited to the following: cover the loading area; install grading, curbing, or berming around the loading area to divert run-on; locate the loading and unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems; or equivalent procedures.

g. Liquid Storage Tanks. Minimize contamination of surface runoff from above-ground liquid storage tanks through implementation of control measures including but not limited to the following: use protective guards around tanks; use containment curbs; install spill and overflow protection; use dry cleanup methods; or equivalent measures.

h. Large Bulk Fuel Storage Tanks. Minimize contamination of surface runoff from large bulk fuel storage tanks. Use containment berms (or their equivalent).

i. Oil-Bearing Equipment in Switchyards. Minimize contamination of surface runoff from oil-bearing equipment in switchyard areas. Use level grades and gravel surfaces to retard flows and limit the spread of spills, or collect runoff in perimeter ditches.

j. Residue-Hauling Vehicles. Inspect all residue-hauling vehicles for proper covering over the load, adequate gate sealing, and overall integrity of the container body. Repair vehicles without load covering or adequate gate sealing, or with leaking containers or beds.

k. Ash Loading Areas. Reduce or control the tracking of ash and residue from ash loading areas. Clear the ash building floor and immediately adjacent roadways of spillage, debris, and excess water as necessary to minimize discharges of pollutants in stormwater.

l. Areas Adjacent to Disposal Ponds or Landfills. Minimize contamination of surface runoff from areas adjacent to disposal ponds or landfills. Reduce ash residue that may be tracked on to access roads traveled by residue handling vehicles, and reduce ash residue on exit roads leading into and out of residue handling areas.

D. Routine Inspections.

1. The permittee shall visually inspect the following areas and BMPs on a semiannual basis (calendar periods), at a minimum:

a. Areas where industrial materials or activities are exposed to stormwater.

b. Areas identified in the PPC Plan as potential pollutant sources.

c. Areas where spills or leaks have occurred in the past three years.

d. Stormwater outfalls and locations where authorized non-stormwater discharges may commingle.

e. Physical BMPs used to comply with this permit.

At least once each calendar year, the routine inspection must be conducted during a period when a stormwater discharge is occurring.

2. The permittee shall evaluate and document the following conditions, at a minimum, in the Annual Report required by paragraph B of this section through required inspections:

a. Raw materials, products or wastes that may have or could come into contact with stormwater.

b. Leaks or spills from equipment, drums, tanks and other containers.

c. Off-site tracking of industrial or waste materials, or sediment where vehicles enter or exit the site.

d. Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas.

e. Control measures or BMPs needing replacement, maintenance or repair.

f. The presence of authorized non-stormwater discharges that were not identified in the permit application and non-stormwater discharges not authorized by this permit.

E. Preparedness, Prevention and Contingency (PPC) Plan

1. The permittee shall develop and implement a PPC Plan in accordance with 25 Pa. Code § 91.34 following the guidance contained in DEP's "Guidelines for the Development and Implementation of Environmental Emergency Response Plans" (DEP ID 400-2200-001), its NPDES-specific addendum and the minimum requirements below.

a. The PPC Plan must identify all potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges from the facility.

b. The PPC Plan must describe preventative measures and BMPs that will be implemented to reduce or eliminate pollutants from coming into contact with stormwater resulting from routine site activities and spills.

c. The PPC Plan must address actions that will be taken in response to on-site spills or other pollution incidents.

d. The PPC Plan must identify areas which, due to topography or other factors, have a high potential for soil erosion, and identify measures to limit erosion. Where necessary, erosion and sediment control measures must be developed and implemented in accordance with 25 Pa. Code Chapter 102 and DEP's "Erosion and Sediment Pollution Control Manual" (DEP ID 363-2134-008).

e. The PPC Plan must address security measures to prevent accidental or intentional entry which could result in an unintentional discharge of pollutants.

f. The PPC Plan must include a plan for training employees and contractors on pollution prevention, BMPs, and emergency response measures. This training must be conducted in accordance with paragraph C.4.c of this section.

g. If the facility is subject to SARA Title III, Section 313, the PPC Plan must identify releases of "Water Priority Chemicals" within the previous three years. Water Priority Chemicals are those identified in EPA's "Guidance for the Determination of Appropriate Methods for the Detection of Section 313

Water Priority Chemicals" (EPA 833-B-94-001, April 1994). The Plan must include an evaluation of all activities that may result in the stormwater discharge of Water Priority Chemicals.

h. Spill Prevention Control and Countermeasure (SPCC) plans may be used to meet the requirements of this section if the minimum requirements are addressed.

2. The permittee shall review and if necessary update the PPC Plan on an annual basis, at a minimum, and when one or more of the following occur:

a. Applicable DEP or federal regulations are revised, or this permit is revised.

b. The PPC Plan fails in an emergency.

c. The facility's design, industrial process, operation, maintenance, or other circumstances change in a manner that materially increases the potential for fires, explosions or releases of toxic or hazardous constituents; or which changes the response necessary in an emergency.

d. The list of emergency coordinators or equipment changes.

e. When notified in writing by DEP.

The permittee shall maintain all PPC Plan updates on-site, make the updates available to DEP upon request, and document the updates in Annual Reports.

F. Stormwater Monitoring Requirements.

1. The permittee shall conduct monitoring of its stormwater discharges at the representative outfalls identified in Part A of this permit, if applicable. The permittee shall document stormwater sampling event information and no exposure conditions for each calendar year on the Annual Report required by paragraph B of this section.

2. The permittee shall, upon written notice from DEP, install inlets, pipes, and/or other structures or devices that are considered necessary in order to conduct representative stormwater sampling, in accordance with a schedule provided by DEP.

3. The permittee shall collect all samples from discharges resulting from a storm event that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The 72-hour storm interval is waived when the preceding storm did not yield a measurable discharge, or if the permittee is able to document that a less than 72-hour interval is representative for local storm events during the sample period.

4. The permittee shall collect all grab samples within the first 30 minutes of a discharge, unless the permittee determines that this is not possible, in which case grab samples must be collected as soon as possible after the first 30 minutes of a discharge. The permittee shall explain why samples could not be collected within the first 30 minutes of any discharge on the Annual Report required by paragraph B of this section.

5. The permittee shall collect stormwater samples at times when commingling with non-stormwater discharges is not occurring or at locations prior to the commingling of non-stormwater discharges, unless Part A of this permit recognizes commingling of stormwater and non-stormwater discharges.

6. In the event that stormwater discharge concentrations for a parameter at Outfall 017, 019, 021, 022, and 025 or IMPs 106 and 406 exceed the benchmark values identified below at the same monitoring point for two or more consecutive monitoring periods, the permittee shall develop a corrective action plan to reduce the concentrations of the parameters in stormwater discharges. The permittee shall submit the corrective action plan to DEP within 90 days of the end of the monitoring period triggering the need for the plan, and shall implement the plan immediately upon submission or at a later time if authorized by DEP in writing. The permittee shall, in developing the plan, evaluate alternatives to reduce stormwater

concentrations and select one or more BMPs or control measures for implementation, unless the permittee can demonstrate in the plan that (1) the exceedances are solely attributable to natural background sources; (2) no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice; or (3) further pollutant reductions are not necessary to prevent stormwater discharges from causing or contributing to an exceedance of applicable water quality standards.

Parameter	Benchmark Value (mg/L)
Total Suspended Solids	100
Oil and Grease	5.0
Total Nitrogen	2.0
Aluminum, Total	0.75
Iron, Total	1.5
Manganese, Total	1.0
pH (standard units)	between 6.0 and 9.0

IX. COOLING WATER INTAKE STRUCTURE

A. Nothing in this permit authorizes a take of endangered or threatened species under the Endangered Species Act.

B. Technology and operational measures currently employed at the cooling water intake structures must be operated in a way that minimizes impingement mortality and entrainment to the fullest extent possible.

C. The location, design, construction or capacity of the intake structure(s) may not be altered without prior approval of DEP.

D. Best Technology Available (BTA) Requirements

To meet BTA requirements to minimize adverse impacts from impingement and entrainment, the permittee shall utilize a closed-cycle recirculating cooling system. This BTA determination may be revised upon submission of additional information by the permittee. Revisions to the BTA determination shall be effective only through amendment or renewal of the NPDES permit. To comply with these BTA requirements the permittee shall:

1. Operate a closed cycle recirculating system as defined at 40 CFR § 125.92(c).

2. Beginning three (3) months after the Permit Effective Date, monitor the actual intake flows at a minimum frequency of daily, including measurements of cooling water withdrawals, make-up water and blow down volume or alternatively monitor cycles of concentration at a minimum frequency of daily.

3. Submit the results of monitoring in paragraph D.2 above on the Cooling Water Intake Monitoring Supplemental Report (3800-FM-BCW0010) as an attachment to monthly DMRs.

E. Requirements for Permit Renewal Application.

The permittee shall submit the applicable information specified in 40 CFR § 122.21(r) with its subsequent permit renewal application, as follows:

1. Source water physical data.

2. Cooling water intake structure data.

3. Source water biological baseline characterization data.

4. Cooling water system data.

5. Chosen method(s) of compliance with impingement mortality standard.

6. Entrainment performance studies.

7. Operational status.

8. If the facility covered by this permit withdraws greater than 125 MGD on an Actual Intake Flow basis as defined in 40 CFR § 125.92, the permittee must submit the applicable information in 40 CFR §122.21(r)(9) – (r)(13) with the subsequent permit renewal application, as follows:

   a. Entrainment Characterization Study.

   b. Comprehensive Technical Feasibility and Cost Evaluation Study (including, but not limited to, evaluations of closed-cycle recirculating cooling, fine mesh screens with a mesh size of 2 mm or less, alternate sources of cooling water, water reuse, variable speed pumps, variable frequency drives, and seasonal flow reductions).

   c. Benefits Valuation Study.

   d. Non-Water Quality Environmental and Other Impacts Study.

   e. Peer Review, completed by peer reviewer(s) approved by DEP.

9. If the facility covered by this permit withdraws less than or equal to 125 MGD on an Actual Intake Flow basis as defined in 40 CFR § 125.92, the permittee must submit an entrainment reduction technology evaluation with the subsequent permit renewal application, which must include at a minimum, an evaluation of the feasibility, cost estimates, and environmental impacts of reducing intake flow using alternate sources of cooling water, water re-use, closed-cycle recirculating cooling; and fine mesh screens.

10. If DEP requests additional information, the permittee shall submit information within 30 days or another timeframe established by DEP in writing.

F. The permittee shall complete 1 year of entrainment sampling during the permit cycle. The permittee will submit an entrainment sampling study plan at least six months prior to commencement of sampling. Sampling results will be submitted to DEP within 15 days of receipt of the final report.

G. The permittee shall retain data and other records for any information developed pursuant to Section 316(b) of the Clean Water Act for a minimum of ten years.

H. New Units.

The permittee must submit applicable information in 40 CFR §122.21(r) at least 180 days prior to the planned commencement of cooling water withdrawals associated with the operation of a new unit (as defined in 40 CFR §125.92(u)).