EXHIBITS J-1 – J-9

Iselin #10 Mine Exhibits

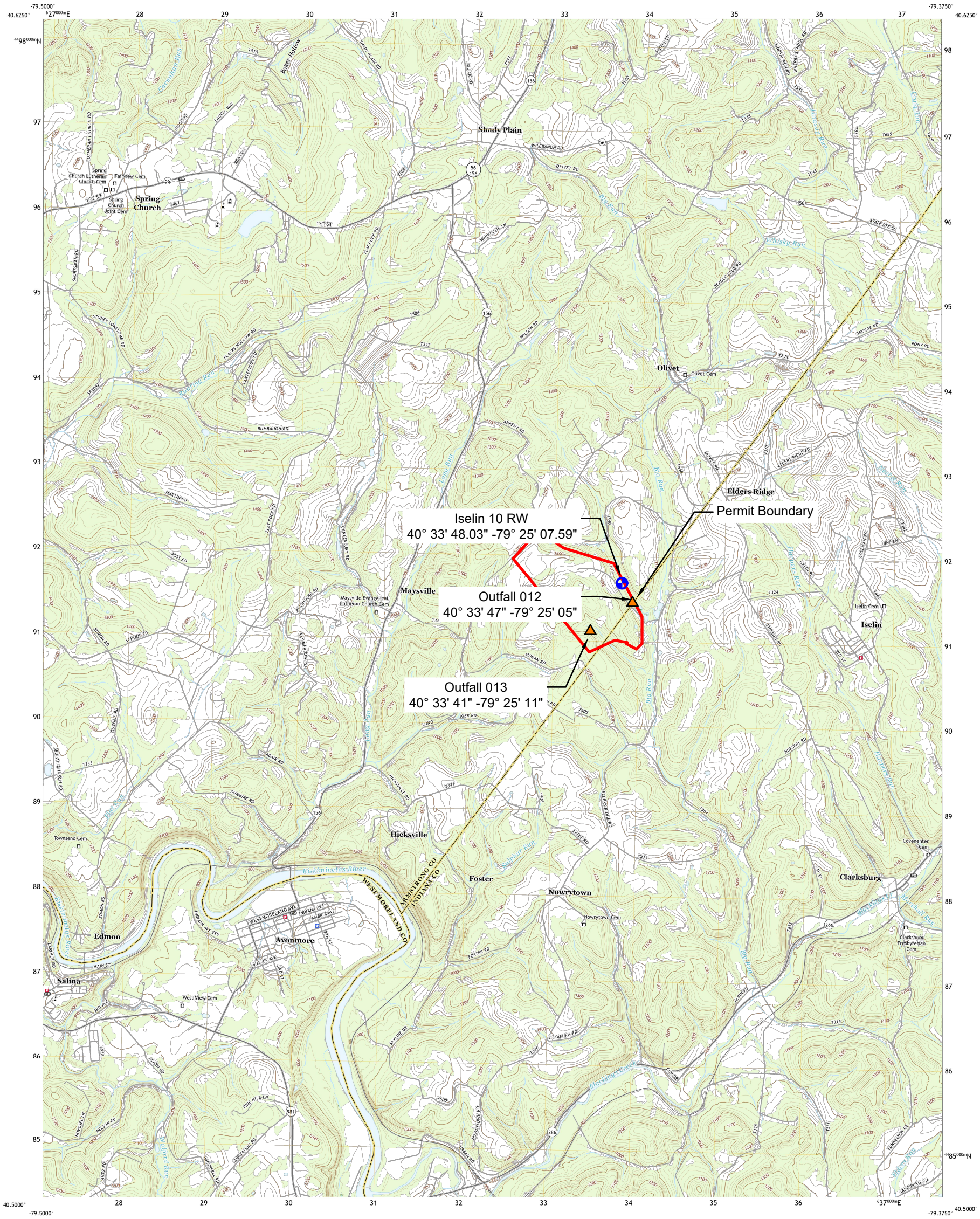
EXHIBIT J-1

Topographic Map

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

AVONMORE QUADRANGLE
PENNSYLVANIA
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 17T
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, July 2017 - December 2017
Roads.....U.S. Census Bureau, 2016
Names.....GNIS, 1979 - 2019
Hydrography.....National Hydrography Dataset, 1899 - 2019
Contours.....National Elevation Dataset, 2010
Boundaries.....Multiple sources; see metadata file 2017 - 2018
Wetlands.....FWS National Wetlands Inventory 1977

MN
GN
8°43' 173 MILS
1°1' 18 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PE
Grid Zone Designation 17T

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

PENNSYLVANIA
QUADRANGLE LOCATION

1 Leechburg
2 Whitesburg
3 Elderton
4 Vandergrift
5 McIntyre
6 Stickville
7 Saltsburg
8 Blairsville
ADJOINING QUADRANGLES

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

AVONMORE, PA
2019

NSN 7643016391122
NGA REF NO. USGSX24K19822

CONSOL ENERGY
FUEL THE WORLD FOR A BETTER TOMORROW

CONSOL Mining Company LLC

Iselin 10 Location Map

Permit No. 03793072

Permit Boundary
NPDES Outfall
Raw Water Sampling Point

SCALE: NO SCALE

DATE: October 17, 2022

EXHIBIT J-2

Raw Water Quality Data

Exhibit C - Iselin 10 Raw Water Data

Permit No. 03793072

Raw Water collected as part of a CONSOL internal voluntary program

Date*	Acidity (as CaCO3) - mg/L	Alkalinity, Total (as CaCO3) - mg/L	Aluminum, Total - mg/L	Flow Rate - GPM	Iron, Total - mg/L	Manganese, Total - mg/L	Osmotic Pressure - mOsm/Kg	pH - SU	Sulfate - mg/L	Conductivity - umhos/cm	Calcium - mg/L	Magnesium - mg/L	Temperature - °C
3-Aug-2017	-	154.00	N/A	N/A	0.31	0.45	N/A	N/A	2,950.00	4,030.00	N/A	N/A	N/A
21-Jan-2019	-	183.00	-	40.00	0.18	3.37	46.00	7.50	2,550.00	3,140.00	421.00	412.00	4.00
18-Feb-2019	-	195.00	-	70.00	0.15	3.96	44.00	6.90	2,370.00	3,670.00	443.00	446.00	5.90
29-Mar-2019	-	199.00	-	45.00	0.25	1.57	48.00	7.50	2,920.00	3,040.00	376.00	362.00	11.40
25-Apr-2019	-	193.00	-	45.00	0.38	5.25	44.00	7.40	2,560.00	2,330.00	500.00	458.00	9.50
31-May-2019	21.30	229.00	-	45.00	1.14	2.96	47.00	7.40	2,890.00	3,110.00	500.00	367.00	20.70
9-Jun-2019	-	194.00	-	4.50	0.30	3.96	40.00	7.60	2,280.00	1,540.00	386.00	N/A	18.40
8-Aug-2019	27.80	241.00	-	5.00	0.98	9.72	52.00	7.60	2,980.00	2,390.00	520.00	481.00	26.20
1-Oct-2019	24.20	239.00	-	40.00	3.22	17.20	58.00	7.40	3,060.00	2,410.00	529.00	509.00	20.30
22-Oct-2019	22.80	202.00	-	25.00	0.53	4.04	46.00	7.60	2,900.00	4,110.00	449.00	470.00	14.60
18-Dec-2019	-	165.00	-	80.00	0.36	2.84	46.00	7.60	2,760.00	2,830.00	395.00	428.00	11.20
20-Dec-2019	-	134.00	-	40.00	0.51	4.53	27.00	7.20	1,380.00	2,090.00	251.00	246.00	10.60
29-Jan-2020	-	206.00	-	60.00	2.54	10.50	44.00	7.80	2,450.00	1,720.00	417.00	421.00	8.50
10-Feb-2020	-	160.00	-	55.00	0.47	1.31	66.00	7.60	2,160.00	3,420.00	379.00	387.00	13.70
24-Mar-2020	-	162.00	-	60.00	0.38	6.36	49.00	7.20	3,370.00	2,820.00	490.00	455.00	16.20
17-Apr-2020	-	201.00	-	60.00	0.25	4.12	45.00	7.60	2,470.00	1,420.00	408.00	383.00	14.80
15-May-2020	-	217.00	-	80.00	0.28	3.34	45.00	7.70	2,510.00	3,730.00	480.00	442.00	17.50
11-Jun-20	-	231.00	-	110.00	0.10	2.67	48.00	7.60	2,600.00	3,280.00	521.00	475.00	24.20
15-Jul-2020	-	246.00	-	120.00	1.72	3.72	50.00	7.30	2,680.00	3,760.00	540.00	516.00	28.30
19-Jul-2022	-	205.00	-	100.00	0.22	1.79	48.00	7.40	2,720.00	2,160.00	412.00	458.00	19.30
10-Aug-2022	-	201.00	-	200.00	0.34	1.26	41.00	7.30	2,760.00	3,400.00	433.00	464.00	25.10
20-Sep-2022	-	205.00	0.58	100.00	0.15	1.69	50.00	6.70	2,800.00	4,030.00	464.00	542.00	23.30
Average	**4.37**	**198.27**	**0.03**	**65.93**	**0.67**	**4.39**	**46.86**	**7.42**	**2,641.82**	**2,928.64**	**443.52**	**436.10**	**16.37**
	All 0's for Acidity were less than 20 mg/L		*All 0's for Aluminum were less than 0.16 mg/L*										

*Note: Dates are provided as a reference. Different analytes may have been analyzed within one or two dates of the date shown

EXHIBIT J-3

NPDES Permit

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF DISTRICT MINING OPERATIONS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
INDIVIDUAL PERMIT (COAL)

NPDES PERMIT NO.:	PA061237	PERMITTEE NAME:	Consol Mining Company, LLC
MINING PERMIT NO.:	03793072	OPERATION NAME:	Iselin No. 10 Surface Mine
MUNICIPALITY:	Kiskiminetas & Young Townships	COUNTY:	Armstrong & Indiana

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., the Department of Environmental Protection (Department) hereby approves the discharge to the following surface water(s): **UNT to Big Run and Big Run** subject to all effluent limitations, monitoring and reporting requirements and other terms, conditions, criteria, and special requirements for the discharge as defined in this permit, to surface waters of the Commonwealth. This permit is issued pursuant to the authority in 25 Pa. Code Chapter 92a and is subject to the requirements of 25 Pa. Code Chapter 92a.

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 of this permit 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 or reissuance 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. [92a.21(c)] In the event that a timely and complete application for renewal or reissuance 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]

4. The permit may be terminated prior to the expiration date upon notice to and approval by the Department.

5. No condition of this permit shall release the operator from any responsibility or requirement under Pennsylvania, or federal environmental statutes, and regulations or local ordinances.

6. This permit is subject to the requirements of the mining permit referenced above.

EFFECTIVE DATE: **May 1, 2020** **EXPIRATION DATE:** **October 22, 2024**

RENEWAL DATES: April 16, 2020

AUTHORIZED BY:

PART A
EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Section A. MINE DRAINAGE TREATMENT FACILITIES

☐ There are no point source discharges of this type at this site.

☐ The facilities listed below utilize non-discharge technologies. [If checked, additional info is in section A.1.]

Outfall No.	Latitude			Longitude			To
012	40°	33'	47"	-79°	25'	05"	UNT to Big Run
013	40°	33'	41"	-79°	25'	11"	Big Run

☐ This permit establishes effluent limitations in the form of implemented BMPs identified in the associated E&S Plan, Reclamation Plan and NPDES application for this permit. These BMPs restrict the rates and quantities of associated pollutants from being discharged into surface waters of the Commonwealth.

The following BMPs apply:

The following effluent limits apply to the following Mine Drainage Treatment Outfall(s): 012 and 013 when only one of these outfalls is discharging at any given time.

Parameter (units in mg/L unless otherwise noted)	Effluent Limitations				Monitoring Requirements	
	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Minimum Measurement Frequency	Required Sample Type
pH (S.U.)	6.0			9.0	2/month	Grab
Total Suspended Solids		35	70	90	2/month	Grab
Alkalinity, Total (as $CaCO_3$)				Report	2/month	Grab
Acidity, Total (as $CaCO_3$)				Report	2/month	Grab
Net Alkalinity, Total (as $CaCO_3$)	0.0				2/month	Calculation
Iron, Total		3.0	6.0	7.0	2/month	Grab
Aluminum, Total		0.75	0.75	0.75	2/month	Grab
Manganese, Total		2.0	4.0	5.0	2/month	Grab
Osmotic Pressure (mOsm/kg)	Report				2/month	Grab
Flow (gpm)	Report				2/month	Measured
Sulfate	Report				2/month	Grab
Specific Conductivity (µmhos/cm)	Report				2/month	Grab
Temperature (°C)	Report				2/month	Measured

The following effluent limits apply to the following Mine Drainage Treatment Outfall(s): 012 and 013 when both outfalls are discharging.

Parameter (units in mg/L unless otherwise noted)	Effluent Limitations				Monitoring Requirements	
	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Minimum Measurement Frequency	Required Sample Type
pH (S.U.)	6.0			9.0	2/month	Grab
Total Suspended Solids		35	70	90	2/month	Grab

The following effluent limits apply to the following Mine Drainage Treatment Outfall(s): 012 and 013 when both outfalls are discharging.

Parameter (units in mg/L unless otherwise noted)	Effluent Limitations				Monitoring Requirements	
	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Minimum Measurement Frequency	Required Sample Type
Alkalinity, Total (as $CaCO_3$)				Report	2/month	Grab
Acidity, Total (as $CaCO_3$)				Report	2/month	Grab
Net Alkalinity, Total (as $CaCO_3$)	0.0				2/month	Calculation
Iron, Total		1.5	3.0	3.7	2/month	Grab
Aluminum, Total		0.75	0.75	0.75	2/month	Grab
Manganese, Total		1.0	2.0	2.5	2/month	Grab
Osmotic Pressure (mOsm/kg)	Report				2/month	Grab
Flow (gpm)	Report				2/month	Measured
Sulfate	Report				2/month	Grab
Specific Conductivity (µmhos/cm)	Report				2/month	Grab
Temperature (°C)	Report				2/month	Measured

Effluent Characterization Sampling

The permittee shall provide analysis of samples collected from the mine drainage treatment outfalls no later than two years after the initial discharge of each facility in compliance with 40 CFR 122.21(k)(5)(vi). Specifically, sampling results are required for the pollutants listed in 40 CFR 122, Appendix D, Table III (Report all), and for Appendix D Tables II and IV for those that are expected to be present. This quantitative data requirement is subject to the small business exemption at 40CFR 122.21(g)(8) for Table II.

Section B. STORMWATER CONTROL FACILITIES

☒ There are no point source discharges of this type at this site.

Outfall No.	Latitude	Longitude	To
	° ' ''	° ' ''	

☐ This permit establishes effluent limitations in the form of implemented BMPs identified in the associated E&S Plan, Reclamation Plan and NPDES application for this permit. These BMPs restrict the rates and quantities of associated pollutants from being discharged into surface waters of the Commonwealth.

The following BMPs apply:

☐ The following limits apply to dry weather discharges from stormwater facilities discharging to _____

DISCHARGE LIMITATIONS (in mg/l)					MONITORING REQUIREMENTS	
Discharge Parameter	Average Monthly	Maximum Daily	Instantaneous Maximum		Measurement Frequency	Sample Type
N/A	N/A	N/A	N/A		N/A	N/A

☐ The following alternate discharge limitations apply to discharges from stormwater facilities resulting from precipitation events less than or equal to the 10-year/24-hour precipitation event discharging to _____

☐ This section not applicable due to Water Quality Based Effluent Limits (WQBELs).

DISCHARGE LIMITATIONS (in mg/l)					MONITORING REQUIREMENTS	
Discharge Parameter	Average Monthly	Maximum Daily	Instantaneous Maximum		Measurement Frequency	Sample Type
N/A	N/A	N/A	N/A		N/A	N/A

Effluent Characterization Sampling

The permittee shall provide analysis of samples collected from erosion and sedimentation control outfalls within two years of the initial discharge of each facility in compliance with 40 CFR 122.26(c)(1)(i)(G). Specifically, sampling results are required for the pollutants listed in 40 CFR 122, Appendix D, Table III (Report All), and for Appendix D, Tables II and IV for those that are expected to be present and pH, specific conductivity, temperature, alkalinity, acidity, iron, manganese, aluminum, sulfate, chloride, settleable solids, total dissolved solids, oil and grease, BOD5, COD, Kjeldahl nitrogen, and nitrate plus nitrite nitrogen. This quantitative data requirement is subject to the small business exemption at 40 CFR 122.21(g)(8) for Table II.

Additional Requirements for Sections A and B

(applicable to all outfalls, under all precipitation conditions)

1. pH must be between 6.0 and 9.0 at all times.

2. Alkalinity must be greater than acidity at all times.

3. Samples collected to comply with the monitoring requirements shall be taken while the facility is discharging at the outfall points listed above. The monitoring requirement frequencies apply to both continuous and non-continuous discharges; therefore, sampling is required in every month during which a discharge occurs. A monitoring report of "no discharge" should only be used to indicate that there was no discharge during the entire reporting period.

4. The discharger may not discharge floating materials, scum, sheen, or substances that result in deposits in the receiving water. Except as provided in the permit, the discharger may not discharge foam, oil, grease, or substances that produce an observable change in the color, taste, odor, or turbidity of the receiving water. [25 Pa. Code § 92.41(c)]

5. The permittee may not discharge 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)]

6. The measurement frequency specified 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.

Mandated Standard Conditions for NPDES Permits

1. Definitions

The following definitions apply within this permit. Reference citations are given from sections of 40 CFR as noted which have been adopted by reference in 25 Pa. Code Chapter 92a.

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

(b) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which 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. [122.41(m)(1)(ii)]

(c) "Average monthly" 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. [122.2]

(d). "Maximum daily" discharge limitation means the highest allowable "daily discharge." [122.2]

(e) "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. [122.2]

(f) "Average" refers to the use of an arithmetic mean, unless otherwise specified in this permit. [122.41(l)(4)(iii)]

(g) "Instantaneous Maximum" means the highest allowable discharge of a concentration or mass at any one time as measured by a grab sample. [92a.2]

(h) "Composite Sample" means a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval (for constant volume samples) is proportional to the flows rates, over the time period used to produce the composite.

The maximum time period between individual samples shall not exceed two hours, except that for wastes of a uniform nature the samples may be collected on a frequency of at least twice per working shift and shall be equally spaced over a 24-hour period (or over the operating day if flows are of a shorter duration).

(i) "Grab Sample" means an individual sample collected at a randomly-selected time over a period not to exceed 15 minutes.

(j) "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.

(k) "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.

(l) "Estimate" means to be 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.

(m) "Toxic Pollutant" means any pollutant listed as toxic under Section 307(a)(1) of the Clean Water Act. [122.2]

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

(o) "Best Management Practices" ("BMPs") are activities, facilities, measures, or procedures used to protect and maintain the quality of waters, and existing and designated uses within this Commonwealth. BMPs include E&S Plans, Reclamation Plans, Storm Water Management Act Plans, and other treatment requirements, operating procedures, and practices to control project site runoff, spillage or leaks, and other drainage from the mining activity.

(p) "Erosion and Sediment Control Plan" ("E&S Plan") is a site-specific plan included with the mining permit or authorization application identifying BMPs to minimize accelerated erosion and sedimentation and which meets the requirements of 25 Pa. Code Chapter 102.

(q) "Point Source" means a discernible, confined and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, CAAP, CAFO, landfill leachate collection system, or vessel or other floating craft from which pollutants are or may be discharged. [25 Pa. Code 92a.2]

(r) "Operator" means a person or entity conducting mining activity that is covered by this permit. The operator name must match the "Permittee" in relation to their mining permit or exploration activity approval and also that of "Operator" in the associated mine operator's license.

(s) "Reclamation Plan" means approved documentation made part of a permit or exploration notice that describes how the permittee will restore the land surface as required by the appropriate regulations to meet an approved post-mining land use. This plan includes activities such backfilling, regrading, soil stabilization, and revegetation. Once the permittee completes the reclamation plan, reclamation bond(s) may be released for a permitted mine site.

(t) "Stormwater" means surface runoff and drainage resulting from precipitation events, including ice and snowmelt runoff. [122.26(b)(13)]

(u) "Dry weather flow" means the base flow or surface discharge from an area or treatment facility which occurs immediately prior to a precipitation event and which resumes 24 hours after the precipitation event ends. [25 Pa. Code §§ 87.1, 88.1, 89.1, and 90.1]

(v) "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. [122.41(n)(1)]

2. Standard Federal Conditions

40 CFR Sections 122.41 and 122.42 require that the following conditions are applied to all permits.

(a) *Duty to comply.* [92a.41(a)(1) and 122.41(a)] The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

(1) The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.

(2) The Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed $25,000 per day for each violation. Section 309(d) of the CWA, 33 U.S.C. § 1319(d), provides that any person who violates Section 301 of the CWA, 33 U.S.C. § 1311, or violates any permit condition or limitation in a permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342, shall be subject to a civil penalty payable to the United States of up to $25,000 per day for each violation, which, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990, as amended by the Debt Collection Improvement Act of 1996, and the subsequent Civil Monetary Penalty Inflation Adjustment Rule, 40 C.F.R. Part 19, was increased to $32,500 per day for each violation occurring on or after March 15, 2004, and $37,500 per day for each violation occurring on or after January 12, 2009. The Clean Water Act provides that any person who *negligently* violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than $50,000 per day of violation, or by imprisonment of not more than 2 years, or both. Any person who *knowingly* violates such sections, or such conditions or limitations is subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than $100,000 per day of violation, or imprisonment of not more than 6 years, or both. Any person who knowingly

violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than $250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than $500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than $1,000,000 and can be fined up to $2,000,000 for second or subsequent convictions.

(3) Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed $10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed $25,000. Penalties for Class II violations are not to exceed $10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed $125,000.

(b) *Duty to reapply.* [92a.41(a)(2) and 122.41(b)] If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.

(c) *Need to halt or reduce activity not a defense.* [92a.41(a)(3) and 122.41(c)] It shall not be a defense for a 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.

(d) *Duty to mitigate.* [92a.41(a)(4) and 122.41(d)] The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

(e) *Proper operation and maintenance.* [92a.41(a)(5) and 122.41(e)] 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 conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

(f) *Permit actions.* [92a.41(a)(6) and 122.41(f)] This permit may be modified, revoked and reissued, or terminated for cause. 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.

(g) *Property rights.* [92a.41(a)(7) and 122.41(g)] This permit does not convey any property rights of any sort, or any exclusive privilege.

(h) *Duty to provide information.* [92a.41(a)(8) and 122.41(h)] The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

(i) *Inspection and entry.* [92a.41(a)(9) and 122.41(i)] The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department or EPA), upon presentation of credentials and other documents as may be required by law, to:

(1) 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;

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(3) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(4) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

(j) *Monitoring and records.* [92a.41(a)(10) and 122.41(j)]

(1) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(2) Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

(3) Records of monitoring information shall include:

(i) The date, exact place, and time of sampling or measurements;
(ii) The individual(s) who performed the sampling or measurements;
(iii) The date(s) analyses were performed;
(iv) The individual(s) who performed the analyses;
(v) The analytical techniques or methods used, including detection limits; and
(vi) The results of such analyses.

(4) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136 unless another method is required under 40 CFR subchapters N or O.

(5) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

(k) *Signatory requirement.* [92a.41(a)(11) and 122.41(k)]

(1) All applications, reports, or information submitted to the Department shall be signed and certified. (See § 122.22)

(2) The CWA provides that any person who 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 non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(l) *Reporting requirements* [92a.41(a)(12) and 122.41(l)]

(1) *Planned changes.* The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

(i) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in § 122.29(b); or

(ii) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under § 122.42(a)(1).

(iii) 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;

(2) *Anticipated noncompliance.* The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(3) *Transfers.* This permit is not transferable to any person except after notice to the Department. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (See § 122.61; in some cases, modification or revocation and reissuance is mandatory.)

(4) *Monitoring reports.* Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(i) Monitoring results must be reported on a DMR or forms provided or specified by the Department for reporting results of monitoring of sludge use or disposal practices.

(ii) If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Department.

(iii) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Department in the permit.

(iv) Monitoring results obtained each month shall be summarized for that month and reported on a DMR.

(v) The DMR shall be submitted quarterly within 28 days after the end of the quarter to the appropriate District Mining Office.

(5) *Compliance schedules.* Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(6) *Twenty-four hour reporting.*

(i) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. 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.

(ii) The following shall be included as information which must be reported within 24 hours under this paragraph.

(A) Any unanticipated bypass which exceeds any effluent limitation in the permit. (See § 122.44(g)).

(B) Any upset which exceeds any effluent limitation in the permit.

(C) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours. (See § 122.44(g).)

(iii) The Department may waive the written report on a case-by-case basis for reports under paragraph (l)(6)(ii) of this section if the oral report has been received within 24 hours.

(7) *Other noncompliance.* The permittee shall report all instances of noncompliance not reported under paragraphs (l) (4), (5), and (6) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (l)(6) of this section.

(8) *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 the Department, it shall promptly submit such facts or information.

(m) *Bypass* [92a.41(m) and 122.41(a)(13)]

(1) *Bypass not exceeding limitations.* The permittee may allow any 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 of paragraphs (m)(2) and (m)(3) of this section.

(2) *Notice* —

(i) *Anticipated bypass.* If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

(ii) *Unanticipated bypass.* The permittee shall submit notice of an unanticipated bypass as required in paragraph (l)(6) of this section (24-hour notice).

(3) *Prohibition of bypass.*

(i) Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:

(A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(B) There were 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 back-up 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; and

(C) The permittee submitted notices as required under paragraph (m)(2) of this section.

(ii) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in paragraph (m)(3)(i) of this section.

(n) *Existing manufacturing, commercial, mining, and silvicultural dischargers.* [92a.42 and 122.42(a)]

In addition to the reporting requirements above, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Department as soon as they know or have reason to believe:

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

(i) One hundred micrograms per liter (100 µg/l);
(ii) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
(iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with § 122.21(g)(7); or
(iv) The level established by the Department in accordance with § 122.44(f).

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

(i) Five hundred micrograms per liter (500 µg/l);
(ii) One milligram per liter (1 mg/l) for antimony;
(iii) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with § 122.21(g)(7).
(iv) The level established by the Department in accordance with § 122.44(f).

3. Standard State Conditions

(a) All discharges authorized by the NPDES permit shall be consistent with the terms and conditions of the permit; that facility expansions, production increases or process modifications which result in new or increased discharges of pollutants shall be reported by submission of a new application or, if the discharge does not violate effluent limitations specified in the NPDES permit, by submission to the Department of notice of the new or increased discharges of pollutants, that the discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by the permit shall constitute a violation of the terms and conditions of the permit.

(b) The permittee must comply with applicable water quality standards, including the narrative standards found at 25 Pa. Code § 93.6.

(c) The permittee shall comply with the immediate oral notification requirements of 25 Pa. Code § 91.33 (relating to incidents causing or threatening pollution). Oral notification is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the incident causing or threatening pollution. The written submission must conform to the requirements of 40 CFR 122.41(l)(6). [92a.41(b)]

4. Preparedness, Prevention and Contingency (PPC) Plans

(a) Persons subject to this permit shall maintain a Preparedness, Prevention and Contingency (PPC) plan.

(b) The permittee shall periodically review, update and amend the PPC Plan at least once a year and whenever the information submitted in the plan is no longer accurate.

(c) The permit does not authorize the discharge of any polluting substances resulting from an on-site spill. Such spills shall be controlled through proper implementation of a PPC Plan.

(d) This permit does not authorize any discharge (stormwater or non-stormwater), which contains any pollutant that may cause or contribute to an impact on aquatic life or pose a substantial hazard to human health or the environment due to its quantity or concentration.

(e) Operator personnel shall conduct site compliance evaluations using the Annual Inspection Form at least once a year. All areas shall be visually inspected for evidence of, or the potential for pollutants entering the drainage system. Measures to reduce pollutant loading shall be evaluated to determine whether they are adequate and property implemented in accordance with the terms of this permit or whether additional control measures are needed. Stormwater management measures, E&S plan measures and other structural pollution prevention measures shall be observed to ensure that they are operating correctly. The PPC Plan shall be revised as needed within 15 days of such inspection with implementation of any changes occurring not more than 90 days after the inspection.

NPDES INDIVIDUAL PERMIT CONDITIONS

1. Operation and Maintenance of Erosion and Sedimentation Plan

   a. The permittee shall implement the erosion and sedimentation plan contained in Module 10 and 13 and approved under Surface Mining Permit Number 03793072.

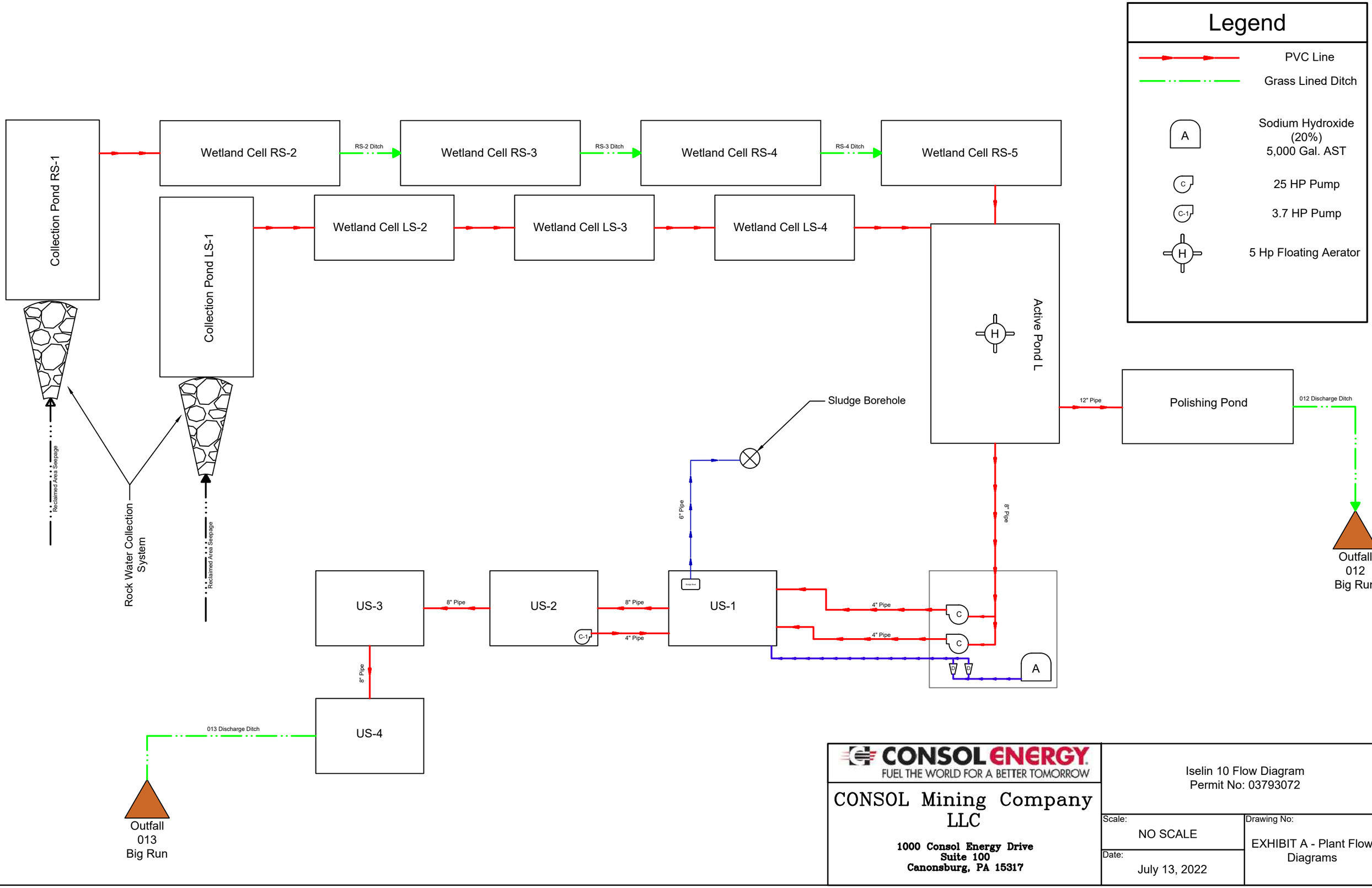
   b. The permittee shall be responsible for the inspection, maintenance, and repair of the erosion and sedimentation control BMPs to ensure that the proposed system continues to function as designed until final bond release occurs for the mine site.

   c. All BMPs shall be inspected by the responsible entity on a regularly scheduled basis and, at minimum, once a quarter and after all major storm events (greater than 0.5 inch in 24 hours). A qualified representative of the operator must perform inspections of the facilities. The inspections shall determine the operational condition, safety, and the effectiveness of the BMP. Based on the inspection results, an inspection report shall generate a listing of maintenance needs or repairs required. The permittee shall keep a listing of the repairs needed and a schedule for corrective action. Corrective actions shall be performed within the schedule. Written records shall be kept of all inspections and maintenance work performed related to the discharge management facilities.

2. The permittee is responsible to renew this NPDES permit until such time that the area is stabilized and no further earth disturbance will occur.

EXHIBIT J-4

Treatment Flow Diagram



CONSOL ENERGY
FUEL THE WORLD FOR A BETTER TOMORROW

CONSOL Mining Company LLC

1000 Consol Energy Drive
Suite 100
Canonsburg, PA 15317

Iselin 10 Flow Diagram
Permit No: 03793072

Scale: NO SCALE

Date: July 13, 2022

Drawing No: EXHIBIT A - Plant Flow Diagrams

EXHIBIT J-5

Rights of Entry

Table of Contents for the Consent to Right of Entry
Iselin #10 Treatment Facility

Parcel Number (Part or Whole)	Current Owner (As of Effective Date)	Description	Consent to Right of Entry Obtained?
20-235.00-01-05	CNX LAND LLC	3rd Party	✓
20-235.00-01-16	CNX LAND LLC	3rd Party	✓
43-019-100.01	BAW REAL ESTATE COMPANY LLP	3rd Party	
43-019-100	BAW REAL ESTATE COMPANY LLP	3rd Party	
43-019-107.00	FAULK ANTHONY L AL	3rd Party	

County of Armstrong

Recorder of Deeds
Register of Wills
Clerk of Orphans' Court

Johnna Deyarmin, First Deputy

500 Market Street, Kittaning, PA 16201
724.548.3220 Phone | 724.548.3236 Fax
email: lahirst@co.armstrong.pa.us

Lori A. Hirst | Acting Recorder of Deeds
Acting Register of Wills | Acting Clerk of Orphans' Court

Instrument Number - 202310223
Recorded On 9/28/2023 At 11:02:00 AM *** Total Pages - 6**
*** Instrument Type - CONSENT OF LAND OWNER**
Invoice Number - 2305174 User - JND
*** Grantor - CNX LAND LLC**
*** Grantee - CONSOL MINING COMPANY LLC**
*** Customer - NIKOLAS TYSIAK**
*** FEES**

STATE WRIT TAX	$0.50
COUNTY RECORDING FEES	$15.00
COUNTY IMP FUND	$2.00
RECORDER IMP FUND	$3.00
TOTAL PAID	$20.50

This is a certification page

DO NOT DETACH

This page is now part of this legal document.

RETURN DOCUMENT TO:
NIKOLAS TYSIAK
TWO GATEWAY CENTER
PITTSBURGH, PA 15222

I hereby CERTIFY that this document is recorded in the Recorder's Office of Armstrong County, Pennsylvania.

RECORDER'S OFFICE ARMSTRONG CO. PA

Lori A. Hirst, Acting Recorder of Deeds

* - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.

002595

Book: 5695 Page: 229

5

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING PROGRAM

SMP No. 03793072
Permit No.

CONSENT TO RIGHT OF ENTRY FOR OPERATION AND MAINTENANCE OF A MINE DRAINAGE TREATMENT FACILITY COVERED BY A BOND OR A POST-MINING DISCHARGE TREATMENT TRUST AGREEMENT

Property Owner(s): List everyone with an ownership interest in the property which is the subject of this Agreement.

Name: CNX Land LLC Name: _____

Address: 1000 Horizon Vue Drive, Canonsburg, PA 15317 Address: _____

WHEREAS, the Property Owner(s) own surface property containing 89.64 acres located in Kiskiminetas Township, Armstrong County, Pennsylvania, and described in Deed Book Volume 5049, Page 0001, in the Armstrong County Recorder's Office (the Property);

WHEREAS, the Commonwealth of Pennsylvania, Department of Environmental Protection (DEP) is authorized to administer and enforce the Surface Mining Conservation and Reclamation Act, 52 P.S. §§ 1396.1-1396.19a, the Clean Streams Law, 35 P.S. §§ 691.1-691.1001, and their implementing regulations, including requiring the construction, operation and maintenance of facilities designed to remediate the effects of mine drainage;

WHEREAS, CONSOL Mining Company LLC ("*Operator*") conducted surface mining activities on *or adjacent to* the Property pursuant to Surface Mining Permit No. 03793072;

WHEREAS, DEP has determined that mine drainage caused by *Operator's* mining activities is discharging from or passing through the Property, and the mine drainage on the Property is causing pollution, or a danger of pollution, to waters of the Commonwealth;

WHEREAS, *Operator* is required, under the mining law and its surface mining permit, to construct, operate and maintain mine drainage treatment facilities on a portion of the Property (the Treatment Facility Property), for purposes of treating the pollutional discharge(s);

WHEREAS, a map showing the boundaries of the Treatment Facility Property is attached as Exhibit A;

WHEREAS, *Operator* has posted a bond with the Department, or has established a trust with a financial institution as an alternative financial assurance mechanism, in order to provide sufficient funds to guarantee *Operator's* legal obligation to operate and maintain the mine drainage treatment facilities on the Property and the *Operator's* obligation for long-term treatment, or abatement, of the post-mining pollutional discharge(s) on the Property;

WHEREAS, to assure compliance with its legal obligations, *Operator* and DEP [*and the Trustee*] must have access to the Treatment Facility Property to conduct and/or oversee the mine drainage treatment activities required by law and the mining permit;

WHEREAS, *Operator and DEP* have requested and the Property Owner(s) is willing to grant *Operator* and DEP [*and Trustee*] a right of entry into, under, over and upon the Treatment Facility Property to construct, operate and maintain mine drainage treatment facilities;

WHEREAS, the Property Owner(s) acknowledge that treatment of the mine drainage on the Property will provide benefits to the Property Owner and to the Commonwealth through abatement of a nuisance, restoration of land affected by mining operations, and prevention of pollution to waters of the Commonwealth;

#20.00

NOW THEREFORE, in consideration of the benefits which the Property Owner(s) and the general public will receive, and with the intention of being legally bound, it is agreed as follows:

1. Right of Entry. The Property Owner(s) hereby grants and conveys to *Operator* and DEP [*and Trustee*], its employees, agents, servants, contractors and subcontractors, a right of entry into, under, over and upon the Treatment Facility Property. This right of entry includes all necessary rights of ingress, egress and regress with all personnel, materials, and equipment needed to perform the discharge treatment activities.

2. Duration of Right of Entry. The term of this Right of Entry shall extend for the length of time necessary to complete the discharge treatment activities in accordance with applicable law. It is specifically understood and agreed that the term of this Right of Entry extends for the length of time necessary to operate and maintain all mine drainage treatment facilities on the Treatment Facility Property, and shall only terminate when such treatment facilities are no longer necessary to remediate or prevent pollution to waters of the Commonwealth.

3. Insurance. DEP will require *Operator* to obtain and keep in force insurance coverage in accordance with the requirements of 25 Pa. Code § 86.168.

4. Property Use. During the term of this Right of Entry, the Property Owner(s) will not, without the written consent of DEP, make any use of the Property which will interfere with the construction, operation or maintenance of the mine drainage treatment facilities installed on the Treatment Facility Property.

5. Notification. This Consent to Right of Entry shall be recorded by *Operator* in the Armstrong _____ County Recorder's Office within thirty days of its execution. In the event that the Property Owner(s) intends to sell, lease, or otherwise transfer any interest in the Property prior to the termination of this Right of Entry, the Property Owners shall advise the prospective owner or lessee of the terms and conditions of this Right of Entry. The Property Owner(s) shall advise DEP, by notifying the Department representative whose signature appears below or his successor, of the intent to sell the Property prior to any sale.

6. Representation of Interests. The Property Owners represent that they are the only persons authorized to grant access to the Treatment Facility Property.

7. Binding on Successors. All the covenants, representations, consents, waivers and agreements contained herein shall be binding upon and inure to the benefit of the parties and their heirs, successors and assigns.

For [*Operator*]

Name: Anthony M. Drezewski
Title: Vice President

Witness

For the Department of Environmental Protection:

Name: Sam Faith
Title: District Mining Manager

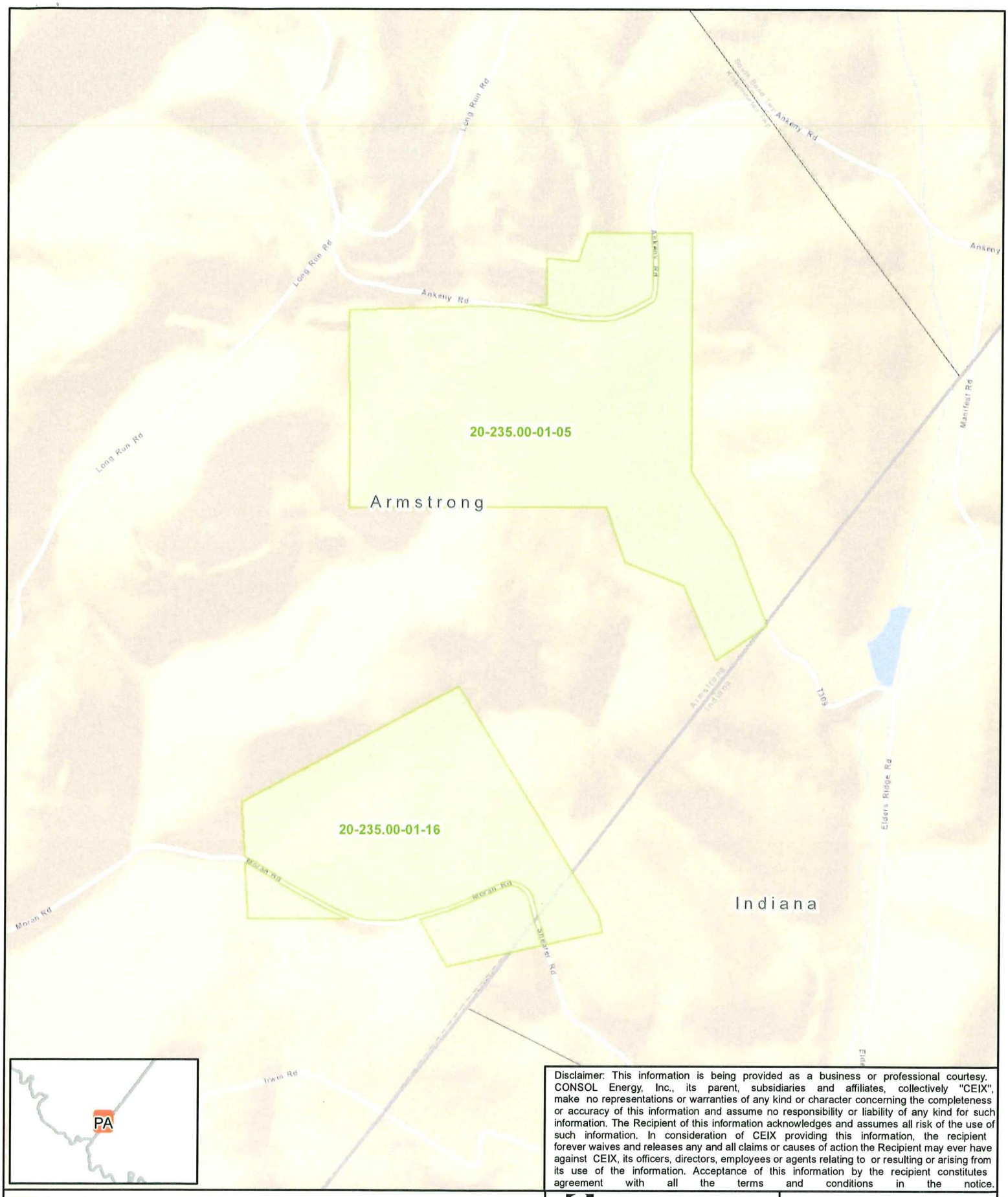
Witness

IN WITNESS WHEREOF, each of the parties set its respective hand and seal, for itself, its heirs, executors, administrators, successors and assigns, intending to be legally bound, this 11 day of July, 2023.

The Property Owner(s)
(*Each owner sign and print their name under the signature.*)

Name: Eric A. Large
Assistant Vice President

RECORDED [illegible]
5695 231



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Parcels

5695 232

N

CONSOL ENERGY

0 500 1,000 Feet

1 inch = 1,000 feet

This map is property of CONSOL Energy Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.

Exhibit A
Iselin 10

Date: 8/15/2023	Prepared By: GIS
Revisions: 0	Approved By:

\\ceixgis\gis\business_unit_support\coal_operations\co79\projects\GlobalWaterTrust\exhibitA_CnxIselin10.mxd

ACKNOWLEDGEMENT

STATE OF PENNSYLVANIA :
: ss
COUNTY OF WASHINGTON :

On this, the 11 day of July, 2023, before me, the undersigned Notary, personally appeared

Eric A. Large
(Name (s))

known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to this instrument, and who acknowledged that (he, she or they) have executed the same and desire it to be recorded.

IN WITNESS WHEREOF, I have hereunder set my hand and official seal.

(SEAL) Christopher A Rabbitt
Notary Public

My Commission Expires: 1/18/2024

Commonwealth of Pennsylvania - Notary Seal
Christopher A. Rabbitt, Notary Public
Washington County
My commission expires January 18, 2024
Commission number 1266666
Member, Pennsylvania Association of Notaries

EXHIBIT J-6

AMDTreat Cost Worksheets

Printed on 03/20/2023

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV5

AMD TREAT

Costs AMD TREAT MAIN COST FORM

Passive Treatment	A	S	
Vertical Flow Pond			$0
Anoxic Limestone Drain			$0
Anaerobic Wetlands			$0
Aerobic Wetlands			$0
Manganese Removal Bed			$0
Oxic Limestone Channel			$0
Limestone Bed			$0
BIO Reactor			$0
Passive Subtotal:			**$0**
Active Treatment			
Caustic Soda			$0
Hydrated Lime			$0
Pebble Quick Lime			$0
Ammonia			$0
Oxidants			$0
Soda Ash			$0
Active Subtotal:			**$0**
Ancillary Cost			
Ponds			$0
Roads			$0
Land Access			$0
Ditching			$0
Engineering Cost			$0
Ancillary Subtotal:			**$0**
Other Cost (Capital Cost)			$0
Total Capital Cost:			**$0**
Annual Costs			
Sampling	1	0	$7,196
Labor	1	0	$33,761
Maintenance	1	0	$3,018
Pumping	1	0	$6,141
Chemical Cost	1	0	$7,054
Oxidant Chem Cost			$0
Sludge Removal	1	0	$59
Other Cost (Annual Cost)			$7,968
Land Access (Annual Cost)			$0
Total Annual Cost:			**$65,197**
Other Cost	1	0	

Water Quality

Design Flow	69.93	gpm
Typical Flow	69.93	gpm
Total Iron	0.67	mg/L
Ferrous Iron	0.67	mg/L
Aluminum	0.03	mg/L
Manganese	4.39	mg/L
pH	7.42	su
Alkalinity	198.27	mg/L
TIC	52.26	mg/L

○ Calculate Net Acidity

◉ Enter Hot Acidity manually

Acidity 4.37 mg/L

Sulfate	2623.16	mg/L
Chloride	0.00	mg/L
Calcium	443.52	mg/L
Magnesium	436.10	mg/L
Sodium	0.00	mg/L
Water Temperature	16.37	C
Specific Conductivity	2928.64	uS/cm
Total Dissolved Solids	0.00	mg/L
Dissolved Oxygen	0.01	mg/L
Typical Acid Loading	0.6	tons/yr

Total Annual Cost: per 1000 Gal of H2O Treated **$1.772**

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV3

Printed on 03/07/2023

AMD TREAT

SAMPLING

Sampling Name: Iselin #10 Sampling Costs

Estimate Sampling Cost

1. Unit Labor Cost	35.00	$/hr
2. Collection Time per Sample	0.33	hours/sample
3. Travel Time	1.15	hr
4. Sample Frequency	1.00	samples/mo
5. Lab Cost Per Sample	100.33	$/sample
6. Number of Sample Points	5	points

Enter Established Annual Sampling Cost

7. Actual Annual Sampling Cost		$

Sampling Sub-Totals

8. Yearly Sample Analysis Cost	6,020	$
9. Yearly Travel Cost	483	$
10. Yearly Collection Cost	693	$

11. Sampling Cost	7,196	$

Record Number 1 of 1

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV3

Printed on 03/07/2023

AMD TREAT

LABOR

Labor Name: Iselin #10 Labor Costs

Estimate Labor Cost

1. Site Visits per Week	7.00	
2. Site Labor Time per Visit	1.50	hours
3. Travel Time per Visit	1.15	hours
4. Unit Labor Cost	35.00	$/hour

Enter Established Annual Labor Cost

5. Actual Annual Labor Cost		$

6. Total Cost	33,761	$

Record Number 1 of 1

Printed on 03/20/2023

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV5

AMD TREAT

MAINTANENCE

Estimate Maintenance Cost

1. Percent of Active Cost		%
2. Percent of Passive Cost		%
3. Percent of Ancillary Cost *		%
4. Percent of Other Capital Cost		%

Enter Established Annual Maintenance Cost

5. Annual Maintenance Cost	3,018	$

Maintenance Sub-Totals

6 Total Maintenance Active Cost	0	$
7. Total Maintenance Passive Cost	0	$
8. Total Maintenance Ancillary Cost	0	$
9. Total Maintenance Other Capital Cost	0	$
10. Total Maintenance Cost	3,018	$

* Ancillary Cost does int include Cost for Land Access and Engineering Cost

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV3

Printed on 03/07/2023

AMD TREAT

PUMPING

Pumping Name: Iselin #10 Pump Costs

Estimated Electricity Cost for Pumping

1. Pump Rate		gal/min
2. Total Pump Head		feet
3. Electricity Cost		$/kwhour
4. Hours Per Day		hours
5. Days Per Year		days
6. Pump Efficiency		%
7. Motor Efficiency		%
8. Pump Maintenance Cost		%*
9. Est. Annual Electricity Cost		$
10. Est. Maintenance Cost		$

* Percent of Annual Electricity Cost

Enter Established Annual Pumping Cost

11. Actual Annual Pumping Cost	6,141	$

Estimated Fuel Cost for Pumping

12. Fuel Rate		gal/hr
13. Fuel Cost		$/gal
14. Hours Per Day		hours
15. Days Per Year		days
16. Pump Maintenance Cost		%**
17. Estimated Annual Fuel Cost		$
18. Estimated Maintenance Cost		$

** Percent of Annual Fuel Cost

19. Total Pumping Cost	6,141	$

Record Number 1 of 1

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV5

Printed on 03/20/2023

AMD TREAT
CHEMICAL COST

AMDTREAT

Chemical Cost Name: Iselin #10 Chemical Costs

☑ **Opening Screen Water Parameters**

Influent Water Parameters that Affect Chemical Cost

Calculated Acidity: -188.91 mg/L

Alkalinity: 198.27 mg/L

○ Calculate Net Acidity (Acid-Alkalinity)

◉ Enter Net Acidity manually

Net Acidity (Hot Acidity): 4.37 mg/L

Design Flow: 69.93 gpm

Typical Flow: 69.93 gpm

Total Iron: 0.67 mg/L

Aluminum: 0.03 mg/L

Manganese: 4.39 mg/L

Record Number

1 of 1

○ A. Hydrated Lime ?

☐ 1 Titration?

2. Hydrated Lime Titration Amount — lbs of hydrated lime / gal of H2O

3. Hydrated Lime Purity — %

4. Mixing Efficiency of Hydrated Lime — %

5. Hydrated Lime Unit Cost — $/lb

○ B. Pebble Quick Lime ?

☐ 6. Titration?

7. Pebble Lime Titration Amount — lbs of Pebble Lime / gal of H2O

8. Pebble Lime Purity — %

9. Mixing Efficiency of Pebble Lime — %

◉ Delivered in Bags

10. Pebble Lime Bag Unit Cost — $/lb

◉ Bulk Delivery

11. Pebble Lime Bulk Unit Cost — $/lb

○ C. Caustic Soda ?

☐ 12. Titration?

13. Caustic Titration Amount — gal ofcaustic / gal H2O

14. Caustic Purity — purity of 20% caustic solution

15. Mixing Efficiency of Caustic — %

◉ Non-Bulk Delivery

16. Caustic Non-Bulk Unit Cost — $/gal

◉ Bulk Delivery

17. Caustic Bulk Unit Cost — $/gal

☐ 18. Flocculents?

19. Flocculent Consumption — gal/hr

20. Flocculent UnitCost — $/gal

○ E. Anhydrous Ammonia ?

☐ 21. Titration?

22. AmmoniaTitration Amount — lbs of ammonia / gal H2O

23. Ammonia Purity — %

24. Mixing Efficiency of Ammonia — %

◉ Non-Bulk Delivery

25. Ammonia Non-Bulk Unit Cost — $/lb

◉ Bulk Delivery

26. Ammonia Bulk Unit Cost — $/lb

○ F. Soda Ash ?

☐ 27. Titration?

28 Soda Ash Titration Amount — lbs of soda ash / gal of H2O

29. Soda Ash Purity — %

30. Mixing Efficiency of Soda Ash — %

31 Soda Ash Unit Cost — $/lb

◉ G. Known Chemical Cost ?

32. Known Annual Chemical Cost: 7,054 $

Chemical Cost Sub-Totals			Annual Amount of Chemicals Consumed	
33. Total Hydrated Lime Cost	0	$	0	lbs
34. Total Pebble Lime Cost	0	$	0	lbs
35. Total Caustic Soda Cost	622	$	540	gals
36. Total Anhydrous Ammonia Cost	0	$	0	lbs
37. Total Soda Ash Cost	0	$	0	lbs
38. Total Known Chemical Cost	7,054	$		
39. Total Flocculent Cost	0	$	0	gals

40. Selected Chemical: **KNOWN CHEMICAL COST**

Annual Chemical Cost: 7,054 $

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV5

Printed on 03/20/2023

AMD TREAT

SLUDGE REMOVAL

AMDTREAT

☐ **Opening Screen Water Parameters**

Sludge Removal Name: Iselin #10 Sludge Removal

Influent Water Parameters that Affect Sludge Removal

Calculated Acidity: -188.91 mg/L

Alkalinity: 198.27 mg/L

○ Calculate Net Acidity (Acid-Alkalinity)

◉ Enter Net Acidity manually

Net Acidity (Hot Acidity): 4.37 mg/L

Design Flow: 69.93 gpm

Typical Flow: 69.93 gpm

Total Iron: 1 mg/L

Aluminum: 0 mg/L

Manganese: 5 mg/L

1. Select One — Selection for Method of Removing Sludge

○ Sludge Removal by $ per Gallon

2. Sludge Removal Unit Cost: $/gal

○ Sludge Removal by Vacuum Truck

3. Vacuum Truck Unit Cost: $/hr

4. Mobilization Cost: $

5. Hours to be Used: hr

○ Sludge Removal by Mechanical Excavation

6. Mechanical Excavation Unit Rate: $/hr

7. Mobilization Cost: $

8. Hours to be Used: hr

○ Sludge Removal by Lagoon Cleaner

9. Lagoon Cleaning Unit Rate: $/hr

10. Mobilization Cost: $

11. Hours to be Used: hr

◉ Actual Sludge Removal Cost

12. Actual Sludge Removal Cost: 59 $

13. Off Site Disposal Cost: 0.00 $

Record Number 1 of 1

Concentrations from Main Water Quality Screen

14. Iron Concentration: 0.67 mg/L

15. Manganese Concentration: 4.39 mg/L

16. Aluminum Concentration: 0.03 mg/L

17. Total Miscellaneous Concentration: mg/L

18. Percent Solids: %

19. Sludge Density: lbs/gal

☐ 20. Titration?

21. Gal. of Sludge per Gal of Water Treated: gal

22. Estimated Sludge Volume: 17 yd3/yr

Cost for Sludge Removal Types

23. Removal by $ per Gallon: 34 $

24. Removal by Vacuum Truck: 0 $

25. Removal by Mechanical Excavation: 0 $

26. Removal by Lagoon Cleaner: 0 $

27. Actual Sludge Removal Cost: 59 $

Sludge Removal Sub-Totals

28. Currently Selected Removal Cost Plus Off Site Disposal Cost: 59 $

Printed on 03/20/2023

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV5

AMD TREAT

OTHER COST

Oher Cost Name Other Costs

	A. Description of Item	B. Unit Cost Per Item	C. Quantity	D. Total Item Cost	E. Capital Cost / Annual Cost
1.	Maintenance based off 2% of Total Capital Cost from Recapitalization Cost Sheet	7,968.00	1	7,968	○ Capital Cost ◉ Annual Cost
2.		0.00	0	0	◉ Capital Cost ○ Annual Cost
3.		0.00	0	0	◉ Capital Cost ○ Annual Cost
4.		0.00	0	0	◉ Capital Cost ○ Annual Cost
5.		0.00	0	0	◉ Capital Cost ○ Annual Cost
6.		0.00	0	0	◉ Capital Cost ○ Annual Cost
7.		0.00	0	0	◉ Capital Cost ○ Annual Cost
8.		0.00	0	0	◉ Capital Cost ○ Annual Cost
9.		0.00	0	0	◉ Capital Cost ○ Annual Cost
10.		0.00	0	0	◉ Capital Cost ○ Annual Cost
11.		0.00	0	0	◉ Capital Cost ○ Annual Cost
12.		0.00	0	0	◉ Capital Cost ○ Annual Cost
13.		0.00	0	0	◉ Capital Cost ○ Annual Cost
14.		0.00	0	0	◉ Capital Cost ○ Annual Cost
15.		0.00	0	0	◉ Capital Cost ○ Annual Cost

Record Number
1 of 1

Curent Capital Cost 0 $
Current Annual Cost 7,968 $

Total Capital Cost 0 $
Total Annual Cost 7,968 $

EXHIBIT J-7

AMDTreat Recapitalization Worksheet

Printed on 07/14/2022

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV2

AMD TREAT
RECAPITIZALITION COST

Calculation Period 75 yrs Inflation Rate 3.10 % Net Return Rate 8.43 %

Recapitizalition Name Exhibit E - Iselin #10 Recapitalization Cost

A.	B	C	D	E	F	G
Description of Item	Unit Cost Per Item	Quantity	Total Item Cost	Life Cycle	Number of Periods	Total PV
1. Centrifugal Pump - 25 Hp	8,403	2	16,806	10	7	24,889
2. Floating Aerator - 5 Hp	15,000	1	15,000	25	3	5,803
3. Electric/Controls	42,000	1	42,000	40	1	5,593
4. Caustic Feed System; Metering Pump	900	2	1,800	5	15	6,137
5. Caustic Feed System; Valving	200	1	200	15	5	173
6. Caustic Feed System; 5000 Gallon AST	20,000	1	20,000	12	6	23,429
7. Powerline & Poles	14,600	1	14,600	40	1	1,944
8. Sludge Pump	750	1	750	5	15	2,557
9. Pump Station Building	17,500	1	17,500	40	1	2,330
10. Caustic Tank Building	13,500	1	13,500	40	1	1,798
11. Collection Pond RS-1	226	1	226	75	1	5
12. Wetland Cell RS-2	7,685	1	7,685	75	1	175
13. Wetland Cell RS-3	959	1	959	75	1	22
14. Wetland Cell RS-4	1,414	1	1,414	75	1	32
15. Wetland Cell RS-5	3,096	1	3,096	75	1	71
16. Collection Pond LS-1	1,218	1	1,218	75	1	28
17. Wetland Cell LS-2	3,190	1	3,190	75	1	73
18. Wetland Cell LS-3	3,944	1	3,944	75	1	90
19. Wetland Cell LS-4	3,184	1	3,184	75	1	73
20. Active Pond L	3,028	1	3,028	75	1	69

Total Capital Cost 170,100 $ PV Grand Total 75,289 $

Printed on 07/14/2022

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV2

AMD TREAT
RECAPITIZALITION COST

Calculation Period 75 yrs Inflation Rate 3.10 % Net Return Rate 8.43 %

Recapitizalition Name Exhibit E - Iselin #10 Recapitalization Cost

A.	B	C	D	E	F	G
Description of Item	Unit Cost Per Item	Quantity	Total Item Cost	Life Cycle	Number of Periods	Total PV
1. Polishing Pond	563	1	563	75	1	13
2. Pond US-1	2,005	1	2,005	75	1	46
3. Pond US-2	1,032	1	1,032	75	1	24
4. Pond US-3	2,363	1	2,363	75	1	54
5. Pond US-4	2,363	1	2,363	75	1	54
6. RS-2 Ditch	2,913	1	2,913	10	7	4,314
7. RS-3 Ditch	4,046	1	4,046	10	7	5,992
8. RS-4 Ditch	10,089	1	10,089	10	7	14,941
9. 012 Discharge Ditch	701	1	701	10	7	1,038
10. 013 Discharge Ditch	2,563	1	2,563	10	7	3,796
11. Main Access Road	18,892	1	18,892	25	3	7,309
12. Turbidity Boom	735	1	735	10	7	1,089
13. 8" PVC Line	4,725	1	4,725	10	7	6,998
14. 4" PVC Line	7,471	1	7,471	10	7	11,064
15. 4" HDPE Line	20,768	1	20,768	75	1	474
16. 12" PVC Pipe	2,096	1	2,096	10	7	3,104
17. 6" Sludge Pipe	18,000	1	18,000	75	1	411
18. Caustic Pipe	1,236	1	1,236	10	7	1,830
19. Fencing	60,630	1	60,630	25	3	23,456
20. Sludge BH Cleaning	10,000	1	10,000	20	3	5,467

Total Capital Cost 173,191 $ PV Grand Total 91,471 $

Printed on 07/14/2022

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10_REV2

AMD TREAT
RECAPITIZALITION COST

Calculation Period 75 yrs Inflation Rate 3.10 % Net Return Rate 8.43 %

Recapitizalition Name Exhibit E - Iselin #10 Recapitalization Cost

A.	B	C	D	E	F	G
Description of Item	Unit Cost Per Item	Quantity	Total Item Cost	Life Cycle	Number of Periods	Total PV
1. Sludge BH Replacement	30,000	1	30,000	75	1	684
2. 3.7 Hp Recirc Pump	7,617	1	7,617	10	7	11,280
3. Rock Water Collection System 1	3,282	1	3,282	75	1	75
4. Rock Water Collection System 1	3,991	1	3,991	75	1	91
5. Caittail Removal	9,000	1	9,000	5	15	30,683
6. 480 Volt Heater	1,200	1	1,200	40	1	160
7.	0	0	0	0	0	0
8.	0	0	0	0	0	0
9.	0	0	0	0	0	0
10.	0	0	0	0	0	0
11.	0	0	0	0	0	0
12.	0	0	0	0	0	0
13.	0	0	0	0	0	0
14.	0	0	0	0	0	0
15.	0	0	0	0	0	0
16.	0	0	0	0	0	0
17.	0	0	0	0	0	0
18.	0	0	0	0	0	0
19.	0	0	0	0	0	0
20.	0	0	0	0	0	0

Total Capital Cost 55,090 $ PV Grand Total 42,974 $

Global Trust

Addendum to Exhibit E - Facility Details and Measurements

Iselin #10- 03793072

0. Unit Costs

Item	Unit Cost	Unit	Discount	ReCap Unit Cost	Description
Pond Construction	$ 3.29	yd^3	0%	$ 3.29	The unit cost is based off an average of the high and low cost for soil movement by bidders on a large reclamation project currently being undertaken by CONSOL at another site. The ReCap unit cost was discounted by 90% since CONSOL's maintenance program, the costs of which will be captured in the M&R section on an annual basis, will make the likelihood of a full pond recapitalization negligible.
Ditch Construction	$ 107.90	ft.	0%	$ 107.90	The unit cost is based off an average of the high and low cost for soil movement by bidders on a large reclamation project currently being undertaken by CONSOL at another site. The ReCap unit cost was discounted by 90% since CONSOL's maintenance program, the costs of which will be captured in the M&R section on an annual basis, will make the likelihood of a full pond recapitalization negligible.
Concrete Vault Construction	$ 1,385.47	yd^3	0%	$ 1,385.47	Cost based on concrete vault construction price obtained in 2021. The discount is based on the an assumed degradation of 25% of the vault in the lifetime.
Turbidity Boom	$ 21.00	ft.	0%	$ 21.00	
Access Road Reconstruction Cost	$ 24.29	yd^3	0%	$ 24.29	Cost based on the combination of earthmoving costs ($3.29/yd) and the cost of road stone ($15/ton @ 1.4 tons/cy).

1. Ponds

Pond ID	Bank Length (ft.)	Bank Width (ft.)	Depth (ft.)	Estimated Bank Slope (X:1)	Slope %	Subtractable	Bottom Length	Bottom Width	Middle Pond Area (ft^3)	Middle Pond Volume (yd^3)	Slope Area (ft^2)	Slope Area (ft^3)	Slope Area (yd^3)	Total Pond Area (yd^3)	ReCap Cost	Lifetime (Years)	
Collection Pond RS-1	57.00	16.00	3.00	2.00	50%	6.00	45.00	4.00	540.00	20.00	9.00	1,314.00	48.67	68.67	$ 226	75.00	
Wetland Cell RS-2	258.00	89.00	3.00	2.00	50%	6.00	246.00	77.00	56,826.00	2,104.67	9.00	6,246.00	231.33	2,336.00	$ 7,685	75.00	
Wetland Cell RS-3	40.00	80.00	3.00	2.00	50%	6.00	28.00	68.00	5,712.00	211.56	9.00	2,160.00	80.00	291.56	$ 959	75.00	
Wetland Cell RS-4	185.00	27.00	3.00	2.00	50%	6.00	173.00	15.00	7,785.00	288.33	9.00	3,816.00	141.33	429.67	$ 1,414	75.00	
Wetland Cell RS-5	196.00	50.00	3.00	2.00	50%	6.00	184.00	38.00	20,976.00	776.89	9.00	4,428.00	164.00	940.89	$ 3,096	75.00	
Collection Pond LS-1	58.00	68.00	3.00	2.00	50%	6.00	46.00	56.00	7,728.00	286.22	9.00	2,268.00	84.00	370.22	$ 1,218	75.00	
Wetland Cell LS-2	145.00	68.00	3.00	2.00	50%	6.00	133.00	56.00	22,344.00	827.56	9.00	3,834.00	142.00	969.56	$ 3,190	75.00	
Wetland Cell LS-3	126.00	95.00	3.00	2.00	50%	6.00	114.00	83.00	28,386.00	1,051.33	9.00	3,978.00	147.33	1,198.67	$ 3,944	75.00	
Wetland Cell LS-4	189.00	53.00	3.00	2.00	50%	6.00	177.00	41.00	21,771.00	806.33	9.00	4,356.00	161.33	967.67	$ 3,184	75.00	
Active Pond L	118.00	79.00	3.00	2.00	50%	6.00	106.00	67.00	21,306.00	789.11	9.00	3,546.00	131.33	920.44	$ 3,028	75.00	
Polishing Pond	81.00	27.00	3.00	3.00	50%	9.00	63.00	9.00	1,701.00	63.00	13.50	2,916.00	108.00	171.00	$ 563	75.00	
Pond US-1	230.00	30.00	3.00	2.00	50%	6.00	218.00	18.00	11,772.00	436.00	9.00	4,680.00	173.33	609.33	$ 2,005	75.00	
Pond US-2	200.00	20.00	3.00	2.00	50%	6.00	188.00	8.00	4,512.00	167.11	9.00	3,960.00	146.67	313.78	$ 1,032	75.00	
Pond US-3	460.00	20.00	3.00	2.00	50%	6.00	448.00	8.00	10,752.00	398.22	9.00	8,640.00	320.00	718.22	$ 2,363	75.00	
Pond US-4	460.00	20.00	3.00	2.00	50%	6.00	448.00	8.00	10,752.00	398.22	9.00	8,640.00	320.00	718.22	$ 2,363	75.00	
Rock Water Collection System 1	30.00	20.00	3.00	2.00	50%	6.00	18.00	8.00	432.00	16.00	9.00	900.00	33.33	49.33	$ 3,282	75.00	Added an additional $1,500 for each since the systems are not visible
Rock Water Collection System 2	42.00	20.00	3.00	2.00	50%	6.00	30.00	8.00	720.00	26.67	9.00	1,116.00	41.33	68.00	$ 3,991	75.00	

2. Ditches

Ditch ID	Base Width (ft.)	Bank Width (ft.)	Depth (ft.)	Ditch Area (ft^2)	Ditch Construction	Length (ft.)	Ditch Volume (ft^3)	Ditch Volume (yd^3)	Total Costs	ReCap Costs	Lifetime (Years)
RS-2 Ditch				-	Grass Lined Ditch	54.00	-	-	$ 5,827	$ 2,913	10.00
RS-3 Ditch				-	Grass Lined Ditch	75.00	-	-	$ 8,093	$ 4,046	10.00
RS-4 Ditch				-	Grass Lined Ditch	187.00	-	-	$ 20,177	$ 10,089	10.00
012 Discharge Ditch				-	Grass Lined Ditch	13.00	-	-	$ 1,403	$ 701	10.00
13 Discharge Ditch				-	Grass Lined Ditch	47.00	-	-	$ 5,071	$ 2,536	10.00

3. Concrete Vaults

Vault ID	Type	Diameter (in.) for circular vaults only	Length (ft.) for rectangular vaults only	Width (ft.) for rectangular vaults only	Depth (ft.)	Wall Thickness (in.)	Concrete Volume (ft^3)	Concrete Volume (yd^3)	ReCap Cost	Lifetime (Years)
	Rectangular						-	-	$ -	

4. Turbidity Boom

Boom ID	Length (ft.)	ReCap Cost	Lifetime (Years)
Turbidity Boom	35.00	$ 735	10.00

5. Access Roads

Road ID	Type	Width (ft.)	Length (ft.)	Depth (in.)	Road Volume ($ft.^3$)	Road Volume (yd^3)	Total Cost	ReCap Cost	Lifetime (Years)	
Main Access Road	Gravel Road	30.00	2,100.00	8.00	42,000.00	1,555.56	$ 37,784	$ 18,892	25.00	
Rock Water Collection System 1	Gravel Road	30.00	20.00	36.00	1,800.00	66.67	$ 1,619	N/A		Rock for Rock Water Collection System
Rock Water Collection System 2	Gravel Road	42.00	20.00	36.00	2,520.00	93.33	$ 2,267			

6. Pipe and Culverts

Pipe Name	Pipe Material	Diameter (in.)	Length (ft.)	Cost per Unit Length (Material)	Cost per Unit Length (Labor)	Total Cost per Unit Length	ReCap Cost	Lifetime
8" PVC Pipe	PVC	8.00	270.00	$ 19.00	$ 16.00	$ 35.00	$ 4,725	10
4" PVC Pipe	PVC	4.00	880.00	$ 8.98	$ 8.00	$ 16.98	$ 7,471	10
4" HDPE Pipe	HDPE	4.00	880.00	$ 15.60	$ 8.00	$ 23.60	$ 20,768	75
12" PVC Pipe	PVC	12.00	75.00	$ 31.90	$ 24.00	$ 55.90	$ 2,096	10
6" Sludge Line	HDPE	6.00	750.00	$ 12.00	$ 12.00	$ 24.00	$ 18,000	75

Caustic Piping	PVC	1.00	880.00	$ 0.81	$ 2.00	$ 2.81	$ 1,236	10

7. Fencing

Name	Length of Fence (ft.)	Total per Unit Fence Cost	ReCap Cost	Lifetime
Chain Link Fence	1,410.00	43.00	$ 60,630	25

Company Name CONSOL Mining Company LLC

Project Global Trust

Site Name Iselin #10 ReCap Amortizat

Printed on 09/05/2023

Life of Trust Fund	75	yrs
Inflation Rate	3.10	%
Return Rate	8.43	%

AMD TREAT
RECAPITIZALITION COST

AMDTREAT

Year	Trust Fund Growth Fund Before Payout	Trust Fund Growth Fund After Payout	Payout Schedule	Year	Trust Fund Growth Fund Before Payout	Trust Fund Growth Fund After Payout	Payout Schedule
	209,734	209,734	Initial Fund Amount				
1	227,414	227,414	0	51	855,912	855,912	0
2	246,585	246,585	0	52	928,066	928,066	0
3	267,372	267,372	0	53	1,006,302	1,006,302	0
4	289,912	289,912	0	54	1,091,133	1,091,133	0
5	314,352	300,897	13,454	55	1,183,115	1,121,199	61,916
6	326,262	326,262	0	56	1,215,716	1,215,716	0
7	353,766	353,766	0	57	1,318,201	1,318,201	0
8	383,589	383,589	0	58	1,429,325	1,429,325	0
9	415,926	415,926	0	59	1,549,817	1,549,817	0
10	450,988	352,539	98,449	60	1,680,467	1,038,824	641,642
11	382,258	382,258	0	61	1,126,397	1,126,397	0
12	414,482	385,633	28,849	62	1,221,352	1,221,352	0
13	418,142	418,142	0	63	1,324,312	1,324,312	0
14	453,392	453,392	0	64	1,435,952	1,435,952	0
15	491,612	473,038	18,574	65	1,557,002	1,472,980	84,022
16	512,915	512,915	0	66	1,597,152	1,597,152	0
17	556,154	556,154	0	67	1,731,792	1,731,792	0
18	603,038	603,038	0	68	1,877,782	1,877,782	0
19	653,874	653,874	0	69	2,036,079	2,036,079	0
20	708,995	556,983	152,012	70	2,207,721	1,592,923	614,797
21	603,936	603,936	0	71	1,727,207	1,727,207	0
22	654,848	654,848	0	72	1,872,811	1,692,652	180,158
23	710,052	710,052	0	73	1,835,343	1,835,343	0
24	769,909	728,296	41,613	74	1,990,063	1,990,063	0
25	789,691	562,146	227,545	75	2,157,825	0	2,157,825
26	609,535	609,535	0	76	0	0	0
27	660,919	660,919	0	77	0	0	0
28	716,634	716,634	0	78	0	0	0
29	777,047	777,047	0	79	0	0	0
30	842,552	660,757	181,794	80	0	0	0
31	716,459	716,459	0	81	0	0	0
32	776,856	776,856	0	82	0	0	0
33	842,345	842,345	0	83	0	0	0
34	913,355	913,355	0	84	0	0	0
35	990,351	956,728	33,622	85	0	0	0
36	1,037,380	977,354	60,026	86	0	0	0
37	1,059,745	1,059,745	0	87	0	0	0
38	1,149,081	1,149,081	0	88	0	0	0
39	1,245,949	1,245,949	0	89	0	0	0
40	1,350,983	769,916	581,066	90	0	0	0
41	834,820	834,820	0	91	0	0	0
42	905,196	905,196	0	92	0	0	0
43	981,504	981,504	0	93	0	0	0
44	1,064,245	1,064,245	0	94	0	0	0
45	1,153,961	1,107,543	46,417	95	0	0	0
46	1,200,909	1,200,909	0	96	0	0	0
47	1,302,146	1,302,146	0	97	0	0	0
48	1,411,917	1,325,331	86,585	98	0	0	0
49	1,437,057	1,437,057	0	99	0	0	0
50	1,558,201	789,368	768,832	100	0	0	0

EXHIBIT J-8

Treatment Bond/Trust Calculator

TREATMENT BOND/TRUST CALCULATOR

Prepared For: CONSOL Energy Post-Mining Dischage Treatment Trust
Treatment System(s) ID: Iselin #10 Mine
Date (mm/dd/yy): July 19, 2024

Inflation Rate:		3.1%
Yrs to Treat start:		0
Annual Treatment Cost:		$65,196.62
Trust Fees:		1.50%
Bond (not needed for rec):		$0.00
Investment Ratios:		
	stock:	80%
	bond:	20%
Effective Rate of Return:		8.43%
Volatility Index:		1.16
Rec Bond Rate of Return:		6.00%
Remaining Time on Permit:	5	years

Options	O&M only	Total with Recap	Total with Recap & Insurance	
option #1				
conventional bond:	$2,694,857.37	$2,694,857.37	$2,824,617.06	bond in year
bond adjustment:	$2,694,857.37	$2,694,857.37	$2,824,617.06	6
option #2				
fully funded trust:	$1,494,541.39	$1,704,275.39	$1,743,343.52	trust in year 1

PV of Recap (todays $$) @ 8.43% Eff RoR & 3.1% Inf: $209,734.00 for trust in year 1

PV of Recap (todays $$) @ 6.00% Eff RoR & 3.1% Inf: for bond in year 1 $0.00 for bond in year 6

Liability Insurance Factor @ $1.00 per year, per $1000 in the total PV of the Trust: $1,704.28 per year PV Insurance: $39,068.13

Liability Insurance Factor @ $1.00 per year, per $1000 in total Bond: $2,694.86 per year PV Insurance: $111,390.07

Fields in RED can be updated
Fields in BLUE are fixed or calculated
Fields in GREEN are partial amounts
Highlighted Fields in GREEN are final amounts

EXHIBIT J-9

Bill of Sale

BILL OF SALE AND LICENSE AGREEMENT

This Bill of Sale and License Agreement is entered into this 2nd day of October, 2024, by and between CONSOL Mining Company LLC ("CMC" or "Transferor") with its principal place of business at 275 Technology Drive, Suite 101, Canonsburg, PA 15317 and Somerset Trust Company with a business address of 131 North Center Avenue, P.O. Box 1330, Somerset, PA 15501, as Trustee of the CMC/Laurel Run/Helvetia Post-Mining Discharge Treatment Trust ("CMC/Laurel Run/Helvetia Treatment Trust").

Whereas, CMC has entered into a Post-Mining Discharge Treatment Trust Consent Order and Agreement ("Trust COA") dated October 2, 2024 with the Commonwealth of Pennsylvania, Department of Environmental Protection (the "Department");

Whereas, CMC has entered into a Post-Mining Discharge Treatment Trust Agreement dated October 2, 2024 with Somerset Trust Company which established the CMC/Laurel Run/Helvetia Treatment Trust; and

Whereas, the Department requires Transferor to continue to treat the post-mining discharges covered by the Trust COA, but also to immediately transfer the water treatment equipment, appurtenances, and facilities to the Trust to facilitate continued treatment of water and protection of the environment in the event CMC or its successors should cease treating the post-mining discharges.

KNOW ALL MEN BY THESE PRESENTS that Transferor in consideration of One Dollar ($1.00) and other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, and intending to be legally bound, does hereby bargain, sell, transfer and convey to Somerset Trust Company, as Trustee of the CMC/Laurel Run/Helvetia Treatment Trust, all of its right, title and interest to the equipment, appurtenances, facilities, and other personal property (the "Personal Property") comprising the Iselin #10 Mine - Iselin 10 Treatment Facility, including, but not limited to, the equipment and other property described on Exhibit 1, attached hereto and made a part hereof, such transfer to be effective as of the date hereof (the "Effective Date").

Transferor represents and warrants that the Personal Property is transferred to the Trust hereby free and clear of all liens and encumbrances.

PROVIDED, HOWEVER, that CMC and its successors shall have a license to use, operate, maintain, construct or reconstruct the Personal Property to treat the post-mining discharges so long as CMC, or its successor, is conducting the necessary water treatment operations. Pursuant to the exercise of the rights granted under this License, CMC shall at its sole cost and expense be responsible for maintaining and replacing/upgrading, as appropriate, the Personal Property.

As a condition of the License hereby granted, CMC agrees that any and all parts, additional equipment, replacements, and upgrades to the Personal Property and the Iselin #10 Mine - Iselin 10 Treatment Facility and systems shall immediately and automatically become the

property of the CMC/Laurel Run/Helvetia Treatment Trust. As long as this Bill of Sale and License Agreement is in effect and not terminated or revoked, CMC, or its successor, shall bear all risk of loss of the Personal Property.

This Bill of Sale and License Agreement shall be governed by and construed and enforced in accordance with the laws of the Commonwealth of Pennsylvania, without regard to the conflict of laws provisions thereof.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands effective the day and year first above written.

TRANSFEROR:
CONSOL Mining Company LLC

James A Brock
(signature)

Witness:

Steven P. Aspinall

By: James A. Brock

Title: President, Chairman, and Chief Executive Officer

TRUSTEE:
Somerset Trust Company

(signature)

Witness:

By: LISA M. BITTNER

Title: VP & Sr. Trust Officer

Exhibit 1 - Inventory of Personal Property for Iselin 10

8/23/2024

Installed Equipment Listing:

Index	Item	Notes
I1	Centrifugal Pump - 25 Hp	
I2	Floating Aerator - 5 Hp	
I3	Electric/Controls	
I4	Caustic Feed System; Metering Pump	
I5	Caustic Feed System; Valving	
I6	Caustic Feed System; 5000 Gallon AST	
I7	Powerline & Poles	
I8	Sludge Pump	
I9	Pump Station Building	
I10	Caustic Tank Building	
I11	Turbidity Boom	
I12	8" PVC Line	
I13	4" PVC Line	
I14	4" HDPE Line	
I15	12" PVC Pipe	
I16	6" Sludge Pipe	
I17	Caustic Pipe	
I18	Fencing	
I19	3.7 Hp Recirc Pump	
I20	480 Volt Heater	

Spare Equipment Listing:

Index	Item	Storage Location
S1	Centrifugal Pump - 25 Hp	Lucerne 6