

Module 2: NPDES Information

A National Pollutant Discharge Elimination System (NPDES) permit is needed for all mining permits. Application for an NPDES permit can be made at the same time as the mining permit using the options described below.

Please check which option is being used for this permit.

1. **Coverage under General Permit BMR GP-104** (Document No. 5600-PM-MR0388).

This type of NPDES coverage is applicable for non-special protection watersheds where the only potential discharge to surface waters of the Commonwealth will be composed entirely of **stormwater**, in which the main potential pollutant is sediment. To apply for coverage under GP104, complete the Notice of Intent form no. 5600-PM-MR0008 and submit it with this mining permit application.

2. **Individual NPDES Permit**

An individual NPDES permit is applicable for those sites that have any one of the following characteristics:

- Permit area is in a special protection watershed (HQ/EV).
- The permit specifies a discharge of treated water (beyond simple containment of stormwater runoff), mine drainage treatment facilities discharge, process water or pumped groundwater.
- Discharge authorization does not qualify under the GP-104.

To apply for coverage under an individual NPDES permit associated with mining activities, complete form no. 5600-PM-BMP0032: APPLICATION FOR INDIVIDUAL NPDES PERMIT ASSOCIATED WITH MINING ACTIVITIES

3. **Other Option**

Check here if another option is chosen and provide an explanation: _____



OFFICIAL USE ONLY
ID # _____
Date Received _____

APPLICATION FOR INDIVIDUAL NPDES PERMIT ASSOCIATED WITH MINING ACTIVITIES

Please answer all questions completely. Refer to the instructions that come with this form.

SECTION A. GENERAL APPLICANT INFORMATION

1. Application Type <input checked="" type="checkbox"/> New <input type="checkbox"/> Renewal <input type="checkbox"/> Modification <input type="checkbox"/> Transfer <input checked="" type="checkbox"/> Fee included: See https://www.dep.pa.gov/Business/Land/Mining/BureauofDistrictMining/Pages/Fees.aspx																									
2. Applicant: Ligonier Stone & Lime Company		3. Associated Mining Permit No. or ID: 65210301 Except for "new", list existing NPDES Permit No: PA0278491																							
4. Operation Name: SMT East Surface Mine		5. License No: 16452		6. Applicant Email: dh@ligonierconstruction.com																					
7. Permit/Project Type: (check applicable) <input type="checkbox"/> Coal <input checked="" type="checkbox"/> Noncoal <input checked="" type="checkbox"/> Mining permit (surface or underground) <input type="checkbox"/> Exploration <input type="checkbox"/> GP-105 (Bluestone) <input type="checkbox"/> Other _____																									
8. Public notice. (See instructions to determine if public notice is required.) Public notice has been submitted for publication. A draft notice is attached. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									
9. Production qualifications (Small business exemption) COAL: Will coal production be at least 100,000 tons per year? <input type="checkbox"/> Yes <input type="checkbox"/> No NONCOAL: Will production be at least \$100,000 (1980 dollars) per year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									
10. Total Affected Area (Acres): <u>224.2</u> Include <u>all</u> associated haul roads. Note: This acreage may be greater than the acres for the associated mining permit.																									
11. Estimated Timeframe: Start (or permit issuance) <u>permit issuance</u> End (or permit expiration) <u>permit expiration</u>																									
12. Physical Address of Permit Location (911 compliant): 331 Derry Lane, Blairsville, PA 15717, access through adjacent issued permit. <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">County</td> <td style="width: 30%;">Municipality</td> <td style="width: 10%;">City</td> <td style="width: 10%;">Boro</td> <td style="width: 10%;">Twp</td> </tr> <tr> <td><u>Westmoreland</u></td> <td><u>Derry</u></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>_____</td> <td>_____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____</td> <td>_____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>						County	Municipality	City	Boro	Twp	<u>Westmoreland</u>	<u>Derry</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<u>Westmoreland</u>	<u>Derry</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																					
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																					
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																					
13. Map View of Area <input type="checkbox"/> Attach a map with outline of the affected area associated with the mining activity and label all outfalls. <input checked="" type="checkbox"/> Map is included as part of mining permit documents marked as Exhibit No. <u>9</u> Date: <u>1.2022</u>																									
14. Receiving Stream/Watershed Name: <u>Unnamed tributaries to Stony Run & Unnamed tributaries to McGee Run & Unnamed tributaries to Conemaugh River</u> Is this stream subject to a TMDL? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									
15. Chapter 93 Receiving Water Designated Use: (CWF), (CWF), (WWF)				NOTE: If designated use is 'HQ' or 'EV', complete anti-degradation supplement form 5600-PM-BMP0007.																					
16. Existing Stream Use (if different from designated use): Has this stream been petitioned for redesignation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
17. During mining, drainage will result in: <input checked="" type="checkbox"/> Point source discharge(s) (complete Section C: Outfall Information) <input checked="" type="checkbox"/> Surface Stream <input type="checkbox"/> Municipal or Private Storm Sewer -- Provide name of Storm Sewer Operator: <input type="checkbox"/> Non-discharge <input type="checkbox"/> Groundwater – infiltration <input type="checkbox"/> Containment without discharge (reuse) <input type="checkbox"/> Other (Including off-site discharges) – Describe and attach documentation to support a legal right to discharge.																									

SECTION B. EROSION AND SEDIMENTATION (E & S) PLAN

18. E & S Plan

An E & S plan must be included as part of the associated mining permit information or attached to this application. The plan must provide a brief narrative describing the use of proposed BMPs and their performance to manage E & S for the project. If E & S BMPs to be implemented do not follow the guidelines referenced in the PA Erosion and Sediment Pollution Control Program Manual (TGD # 363-2134-008) or the Engineering Manual for Mining Operations (TGD # 563-0300-101), provide documentation to demonstrate performance equivalent to, or better than, the BMPs in the Manuals.

Check one:

- E & S plan meeting the above criteria is contained within the information associated with the mining permit/project listed in item #3 of this application.
- E & S information including a complete description of the implementation of BMPs is included with this NPDES application.

19. Best Management Practices (BMPs) Summary.

Check here if all BMPs are described as part of appropriate Modules of the mining permit/project (coal or noncoal) identified in Item No. 3.

Complete the following if specific E & S Modules have not been submitted with an associated mining permit.

Check all that will be used at this mining site.

BMP		BMP	
<input type="checkbox"/>	Sediment basins/traps with discharge outlet	<input type="checkbox"/>	Bio-infiltration areas
<input type="checkbox"/>	Constructed wetlands	<input type="checkbox"/>	Vegetated swales / Stabilized channels
<input type="checkbox"/>	Retention/containment basins	<input type="checkbox"/>	Constructed filters/ filter bags
<input type="checkbox"/>	Detention basin/pit sump	<input type="checkbox"/>	Stabilized site entrances
<input type="checkbox"/>	Non-discharging sedimentation traps	<input type="checkbox"/>	Wheel washes
<input type="checkbox"/>	Sediment fore bay	<input type="checkbox"/>	Limiting disturbed area with concurrent reclamation
<input type="checkbox"/>	Infiltration measures	<input type="checkbox"/>	Oil/grit separators
<input type="checkbox"/>	Protect Sensitive & Special Value Features	<input type="checkbox"/>	Street sweeping
<input type="checkbox"/>	Protect/Conserve/ Enhance Riparian areas	<input type="checkbox"/>	Runoff capture/Reuse
<input type="checkbox"/>	Restoration: Buffers/ Landscape/ Floodplain	<input type="checkbox"/>	Temporary sediment controls (silt fence/silt-sok)
<input type="checkbox"/>	Top of slope berms	<input type="checkbox"/>	Top of slope diversions
<input type="checkbox"/>	Rock inlets for basins	<input type="checkbox"/>	Other _____
<input type="checkbox"/>	Erosion control blankets/textiles	<input type="checkbox"/>	Other _____

20. Reclamation and BMPs

Check here if any of the above checked BMPs will be left after final bond release.

If checked, supply details, signed documentation of permission by the landowner and justification in the reclamation plan with the mining permit application. If this information is contained in the mining permit documents, please explain:

SECTION C. OUTFALL INFORMATION

This Section is to be completed when discrete outfalls are proposed. Attach additional pages for more than 4 points.

21. Identify each point in the tables below. Each discharge point must be shown and labeled as such on a map submitted with this application or as part of the mining permit/authorization. The labeling of discharge points must correspond with the labels used on the exhibit maps submitted in support of the mining permit/authorization. Non-discharging sedimentation traps and groundwater infiltration points are not outfalls and should not be included as outfalls but should be listed at the end of this section. Emergency Spillway(s) for ponds associated with non-discharge alternative must be permitted.

Describe the location and source of each point.				
Discharge Point (e.g., SP 001, SP 002 etc.)	Latitude	Longitude	Receiving Stream	Source of Discharge (e.g., sedimentation pond, groundwater sump, etc.)
001	40° 24' 46"	79° 16' 03"	Unnamed Tributary to Conemaugh River	Sedimentation Pond (SP-1)
002	40° 24' 32"	79° 16' 38"	Unnamed Tributary to Stony Run	Sedimentation Pond (SP-2)
003	40° 24' 52"	79° 16' 08"	Unnamed Tributary to Conemaugh River	Treatment Ponds (TP-1)
004	40° 24' 41"	79° 16' 06"	Unnamed Tributary to Conemaugh River	Sedimentation Pond (SP-3)

For the same points as above, describe the flow and treatment for each point.

Discharge Point (e.g., SP 01, SP 02 etc.)	Flow			Frequency (Intermittent (I), Precipitation Dependent (P), Continuous (C))	Treatment
	Average rate (mgd)	Design rate (mgd)			
001	0.54	146.0		P	Retention and settling of solids
002	0.36	96.9		P	Retention and settling of solids
003	Rainfall Dependent	0.1		P	Caustic Soda/Soda Ash Briquettes
004	0.09	41.6		P	Retention and settling of solids

Design rate is the discharge flow at the Q 7-10 stream flow for post-mining discharges, the maximum hydraulic capacity for other treatment facilities or the routed storm flow for sedimentation ponds.

Latitude/Longitude Collection Method: EMAP GPS Printed Map Other _____

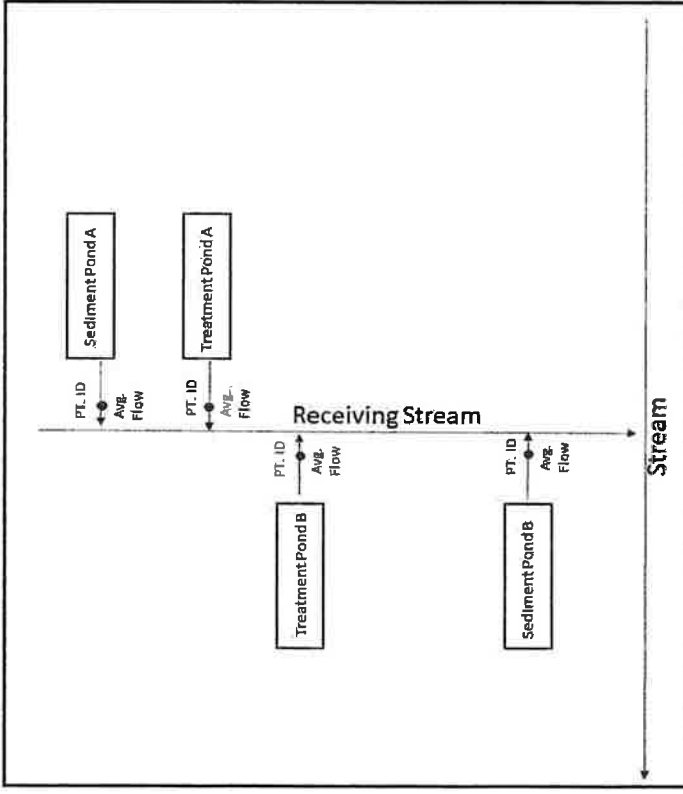
Check the horizontal reference datum (or projection datum) employed in the collection method.
 NAD27 (topo maps) NAD83 (Emap) WGS84 (GEO84) (most GPS units)

For non-discharging sedimentation traps and groundwater infiltration points, provide the description and location:

Discharge/Sampling Point:	Latitude:	Longitude:	Source of Discharge (e.g., sedimentation pond, groundwater sump, etc.):
Not Applicable			

Depict the structures and corresponding discharge points, average flow rate, and receiving stream(s) in a flow diagram. Include line drawing below or attachment.
[40 C.F.R. § 122.21(g)(2)]

Example:



See Attached Flow Diagram

22. Evaluation of Thermal Impacts. Describe how thermal impacts were evaluated and, if necessary, how they will be mitigated, in accordance with 25 Pa. Code Chapter 93. At mine sites two discharge scenarios are present. During dry periods there will be no discharge. After rain or snow melt events the ponds may discharge. The stormwater runoff will be retained in the pond and when discharged will reduce the peak runoff in the receiving streams. Riparian vegetation between the stream and discharge point is left in place, when the water flows through the riparian vegetation area, shade keeps the ground temperature low to thus cool the water. In addition, infiltration will lower the water temperature to natural ground temperature. This helps maintain a constant base flow reducing thermal fluctuation in the stream.

23. Solid or liquid wastes not discharged. Will there be sludge or sediment produced from the treatment described above? Yes No
Will there be liquid produced from the treatment described above (not discharged via the outfall)? Yes No
Describe the material and its ultimate disposal: Limestone fines will settle out into the ponds. These fines will be removed from the pond at the sediment level and mixed in the backfill material for final site reclamation.

SECTION D. EFFLUENT CHARACTERIZATION

Complete the following subsections for each discharge outfall listed in Item #21.

Discharge Point No(s): 001-004

24. Common parameters/pollutants. Complete the table for each constituent. Indicate 'E' if estimate, 'D' if based on actual data. If needed, attach a separate sheet labeled "Item #24 Common parameters/pollutants". Please include the units of measurement. If you are providing data from one discharge for two or more substantially identical effluents, indicate which outfalls the data represents. [40 CFR 122.21(k)(5)(i) and 40 CFR 122.21(g)(7)(iii)]

Constituent	Daily Max	Daily Average	Source of Information
pH	9	7.5	E
Total Suspended Solids (TSS)	70 mg/l	35 mg/l	E
Conductivity	600 micromhos	350 micromhos	E
Chemical Oxygen Demand (COD) ¹			
Biochemical Oxygen Demand (BOD) ¹			
Ammonia (NH3) ¹			
Total Organic Carbon (TOC) ¹			
Flow	varies	varies	flow based on pond design, see #21
Temperature (high)	85 °F	65 °F	E
Temperature (low)	32 °F	45 °F	

¹ Waiver option [40 CFR 122.21(k)(5)(i)]: A waiver is requested for the following constituents that are not anticipated to be present in the discharge:

COD BOD NH3 TOC

Provide a justification for this waiver request.

No fertilizer is used during operation. Appropriate amounts will be used at reclamation to promote sufficient growth. There are no sewage plants, bogs, wastewater treatment plants or sewage sludge used at this site.

25. Dioxins. As the applicant, do you have reason to believe that at any time dioxins were made, used, stored or buried on or directly upgradient from the site designated for mining and/or support area? [TCDD, 2,4,5-T, 2,4,5-TP, Erbon, Ronnel, TCP or HCP under 40 CFR 122.21 (g)(7)(viii) and 40 CFR 122.21 (k)(5)(iv)]

Yes No

If yes, provide information and data characterizing the potential discharge on a separate sheet labeled "Item #25 Dioxins"

26. Organic Toxic Pollutants (EPA Table II) Provide waiver justification or data regarding organic toxic pollutants for the mine site. Waiver: This section is not applicable because this operation fulfills one of the following criteria:

For coal, this operation produces less than 100,000 tons per year.

For noncoal, this operation has gross sales of less than \$100,000 per year (1980 dollars).

If a waiver is not applicable, refer to Appendix B: Table II - Organic Toxic Pollutants. List any constituents from that table that are expected to be present in the discharge.

None of the constituents listed in Table II are expected to be present in the discharge because the site will follow their Spill Prevention, Control & Countermeasure Plan. This plan will involve that double-wall containment, storage trailers and secondary containment are used throughout the facility for the pollutants (volatiles & base/neutral) that would apply to this site. In the event of a spill the contents would pool in the area, where it would be collected for proper disposal. No acid compounds or pesticides apply to this site. See Attachment #26.

For all constituents listed above, provide a table of the estimated daily maximum concentration, the estimated daily average concentration and the source of this information on a separate attachment labeled "Item #26 Organic Toxic Pollutants".

27. Other toxic pollutants. For new mining permits, for each of the following constituents, provide an estimate of the concentration that could reasonably be expected to be present in the discharges(s) and the source of this information [40 CFR 122.21 (k)(5)(iii)(A)] (EPA Table III).

For all Coal mining renewals, provide the actual data for concentrations. [40 CFR 122.21 (g)(7)(v)(B)]

For Noncoal renewals, provide data for those you expect to be present. Insert "X" for those not expected to be present [40 CFR 122.21 (g)(7)(vi)(B)]

Please include units of measurement for all concentrations reported.

Estimated concentrations are based on PA Code Chapter 93.8c Table 5 Water Quality Criteria for Toxic Substances; Beryllium concentrations are based off of laboratory limits. Selenium concentrations are based on EPA guidance.

Constituent	Concentration		Constituent	Concentration
Antimony, Total	<5.6 µg/L		Nickel, Total	<52 µg/L
Arsenic, Total	<10 µg/L		Selenium, Total	<4.6 µg/L
Beryllium, Total	<4 µg/L		Silver, Total	<3.2 µg/L
Cadmium, Total	<0.25 µg/L		Thallium, Total	<0.24 µg/L
Chromium, Total	<84 µg/L (chromium III + VI)		Zinc, Total	<119 µg/L
Copper, Total	<9 µg/L		Cyanide, Total	<5.2 µg/L
Lead, Total	<2.5 µg/L		Phenols, Total	<5 µg/L
Mercury, Total	<0.05 µg/L			

28. Conventional and Nonconventional Pollutants. For each of the following constituents, check the boxes for those that you expect to be present in the discharge. (EPA Table IV)

<input type="checkbox"/> Bromide	<input type="checkbox"/> Nitrogen, Total Organic	<input type="checkbox"/> Sulfite	<input checked="" type="checkbox"/> Iron, Total
<input type="checkbox"/> Chlorine, Total Residual	<input type="checkbox"/> Oil and Grease	<input type="checkbox"/> Surfactants	<input type="checkbox"/> Magnesium, Total
<input type="checkbox"/> Color	<input type="checkbox"/> Phosphorus, Total	<input checked="" type="checkbox"/> Aluminum, Total	<input type="checkbox"/> Molybdenum, Total
<input type="checkbox"/> Fecal Coliform	<input type="checkbox"/> Radioactivity	<input type="checkbox"/> Barium, Total	<input checked="" type="checkbox"/> Manganese, Total
<input type="checkbox"/> Fluoride	<input checked="" type="checkbox"/> Sulfate	<input type="checkbox"/> Boron, Total	<input type="checkbox"/> Tin, Total
<input type="checkbox"/> Nitrate-Nitrite	<input type="checkbox"/> Sulfide	<input type="checkbox"/> Cobalt, Total	<input type="checkbox"/> Titanium, Total

For new outfalls, for each constituent checked above (those that you expect to be present) provide the estimated daily maximum concentration, daily average concentration and the source of the information on an attachment. For existing outfalls, report the daily maximum and daily average based on data collected within the previous five years.

Aluminum: 0.75 mg/L daily max., 0.375 mg/L daily avg., estimated; Iron: 1.5 mg/L daily max., 0.75 mg/L daily avg., estimated; Sulfate: 250 mg/L daily max., 125 mg/L daily avg., estimated; Manganese: 1.0 mg/L daily max., 0.5 mg/L daily avg., estimated. The estimates for Iron, Manganese, and Sulfate are based off of concentrations listed in PA Code Chapter 93.7 Table 3. The estimate for Aluminum is based off of concentrations listed in Chapter 93.8c Table 5.

29. Toxic Pollutants and Hazardous Substances (EPA Table V) Refer to Appendix B: Toxic Pollutants and Hazardous Substances. List any constituents from that table that are expected to be present in the discharge.

None – see attached list of substances and the sources of where they would be expected/associated activity.

For all constituents listed above, provide data for each pollutant expected in the discharge or justification of why any are believed to be not present and the source of this information on a separate attachment labeled "Item #29 Toxic and Hazardous Pollutants".

SECTION E. CERTIFICATIONS

The information on the NPDES form must be certified as correct by one of the following, as applicable.

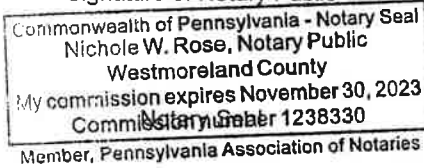
- a) In the case of corporations, by principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
- b) In the case of a partnership, by a general partner.
- c) In the case of a sole proprietorship, by the proprietor.
- d) In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official or other duly authorized employee.

30. Applicant Affidavit

I certify under penalty of law that this application and all related attachments were prepared by me or under my direction or supervision. Based on my own knowledge and on inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I verify that the activity is eligible to participate in the NPDES permit, and that the BMPs, E&S Plan, and other plans and controls described are being or will be, implemented to ensure that water quality standards and effluent limits are attained. Furthermore, I agree to accept all conditions and limitations imposed by the associated permit. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment or both for knowing violations pursuant to Section 309(c)(4) of the Clean Water Act and, 18 Pa. C.S. §§4903-4904.

Sworn and Subscribed to Before Me This
19 day of January 2021
(month) (year)

Nichole W Rose
Signature of Notary Public



[Signature]
Signature of Applicant or Responsible Official

David S. Herrholtz
Name (Typed) of Applicant or Responsible Official

117 Marcia Street
Address of Applicant

Latrobe, PA 15650
Address of Applicant

President
Applicant Title and Corporate Seal

31. Preparation of this report (to be completed by the person who prepared this application)

I do hereby certify to the best of my knowledge, information and belief that the submitted information is true and correct, represents actual field conditions and are in accordance with the appropriate Chapters of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

B. Verwelst
Signature

Brian Verwelst - Professional Engineer 1-25-2021
Print Name and Title Date Signed

Earthtech, Inc.
Company

P.O. Box 4-A
Address

Lemont Furnace, PA 15456 724.439.1313
City, State, Zip Phone

Email Address: bverwelst@earthtechinc.net



NPDES No. _____
Permit No. _____

SECTION F. PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN

This completed form constitutes the PPC plan. Along with an approved erosion and sedimentation control plan and reclamation plan as well as additional information supplied in the mining activity request, this PPC plan comprises the Stormwater Pollution Prevention Plan.

Option: If the permittee has a separate, comprehensive PPC plan located on the site, check this box and sign below to confirm that this document is available upon request.

Signature: _____ Print Name: _____ Date: _____

F1. Facility Contact

This person is the designated contact for the mining facility:

Name: Lori Kalina Title: Secretary

Address: 117 Marcia Street, Latrobe, PA 15650

Phone: (24-hr emergency) 724.396.2309 Email: lkalina@ligonierstone.com

F2. PPC Team

List PPC team members (names and title) who will undertake and oversee the control measures in this plan and make necessary corrective actions:

1. Don Cunningham - Superintendent 2. _____
3. _____ 4. _____

Potential Pollutant Sources and Control

F3. Inventory

List **all chemicals**, petroleum products, solvents, paint, acids, water treatment products, fertilizer, antifreeze, ice melt/salt, etc. that are to be used and stored on site. If more space is needed, please submit table on a separate page labeled "F3: Inventory"

Chemical and trade name	Location	Quantity	Storage Management (letter key) *	Coal sites only AST Inventoried?
Diesel Fuel	In tank on skids	200 gallon	A	<input type="checkbox"/>
Antifreeze	In fuel & grease truck	50 gallon	A	<input type="checkbox"/>
Motor Oil	In fuel & grease truck	100 gallon	A	<input type="checkbox"/>
Hydraulic Oil	In fuel & grease truck	100 gallon	A	<input type="checkbox"/>
Photafloc Gel Logs	Storage Building	2 dozen	D	<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>

* Key to Storage Management: A. Closed, sturdy containers C. Secured Tarps E. Other
B. Open-sided covered D. Sheds/buildings/trailers

F4. History of site

- a. Within 3 years prior to this being a mine site, was this site used for any industrial activity? Yes No
If yes, what products (such as those listed above) were used, stored and/or disposed of at this site?
- b. Have leaks or spills occurred at this site in the past 3 years? Yes No
If yes, provide details of the event.
- c. An authorized individual must evaluate the site for nonauthorized discharges such as leaking pipelines, drains, hoses and any other non-stormwater discharges.
Date of evaluation: 1.19.2021 Person who did evaluation: Don Cunningham

F5. Potential Pollution Locations

Identify locations that have potential for spills or leaks at this site:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Excavation area | <input checked="" type="checkbox"/> Vehicle refueling, maintenance or washing area |
| <input checked="" type="checkbox"/> Stockpile area | <input checked="" type="checkbox"/> Equipment storage and maintenance area |
| <input checked="" type="checkbox"/> Product storage area | <input type="checkbox"/> Chemical preparation area |
| <input checked="" type="checkbox"/> Haul roads | <input type="checkbox"/> Treatment system setup |
| <input type="checkbox"/> Other(s) (list): _____ | |

F6. Pollution Control

The operator or designated representative agrees to the following (check each):

- 1. Maintain regular pickup and disposal of waste materials
- 2. Undertake daily inspection of site for leaks and spills.
- 3. Ensure that chemical containers and supplies are properly and promptly stored after use.
- 4. Maintain equipment so that spills/leaks are avoided.
- 5. Undertake practices to keep control measures operational.
- 6. Take corrective actions to prevent and/or contain leaks and spills.
- 7. Ensure products are stored in appropriate containers that are clearly labeled.
- 8. Locate materials storage areas away from vehicle high-traffic areas.
- 9. Control garbage onsite to prevent dispersion by water or wind.

The above items are included as part of this PPC.

F7. Emergency Procedures and Training

The operator or designated representative confirms the following (check each):

- 1. The operator has in place a procedure for stopping, containing and cleaning up spills, leaks or other releases.
- 2. The operator agrees to train all on-site working personnel in the procedures listed in this PPC.
- 3. The operator has a procedure for notifying appropriate facility personnel, emergency response and regulatory agencies (including the District Mining Office) in the event of a spill, leak or release. *

* Attach this notification list to this document. List is attached.

The above items are included as part of this PPC.

Inspections

F8. Inactivity

a. Will this site be seasonally inactive? Yes No

If yes, provide time period of inactivity: _____

If yes, complete item b.

b. Please confirm the following by checking the *appropriate* box(es):

- Sites will be secured, and access limited to prevent dumping and vandalism during shutdown.
- Chemicals will be removed from the site during shutdown.
- Chemicals will be secured in locked structures during shutdown.

F9. Self-inspection and plan updates

The operator agrees to the following (check the box):

- 1. Undertake yearly, documented, self-inspections to ensure the PPC is up to date and all BMPs are working.
- 2. Retain the written self-inspection report for at least one year.
- 3. Update this PPC as necessary and upon renewal of the NPDES permit.

The above items are included as part of this PPC.

Affidavit

I certify under penalty of law that this PPC document and any attachments related to it were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: David S. Herrholtz

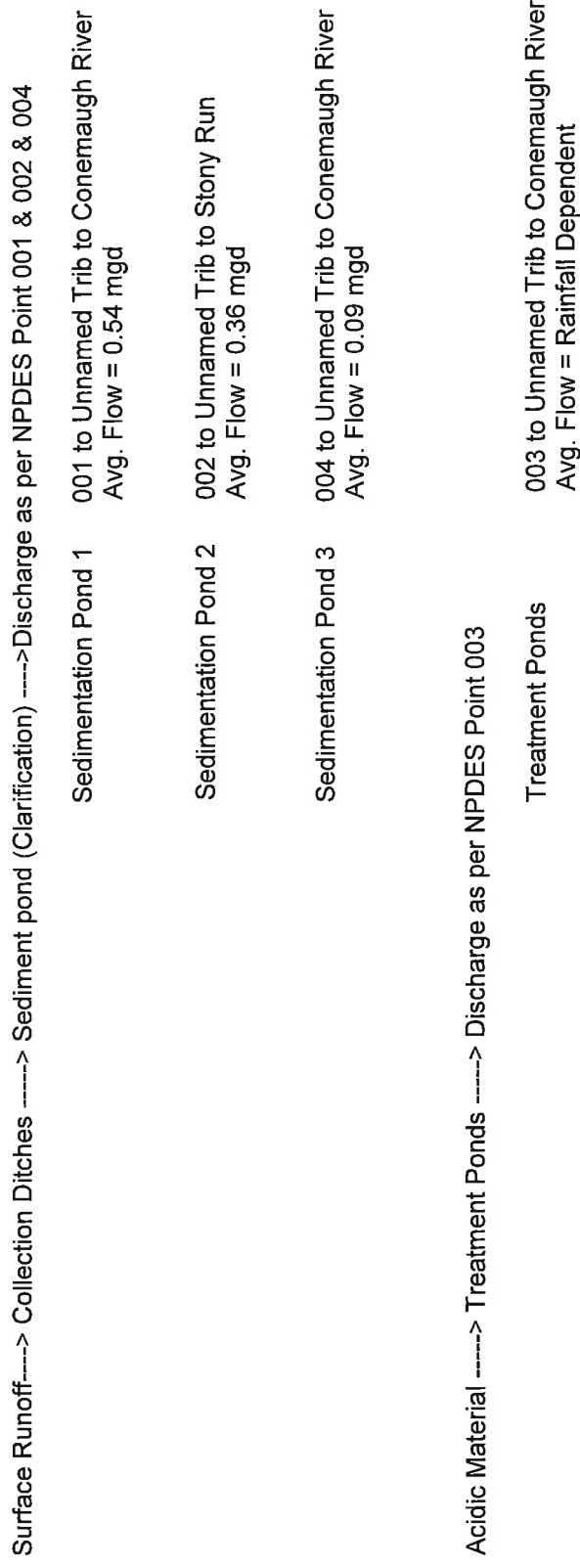
Title: President

Signature: _____

Date: 1/19/2021

FLOW DIAGRAM

SMT East 12.2021



*** No substance on this list is expected to be found at this site ***

#	Substance	Source, Associated Activity, How Substance Used	Substance May Be Present @ This Site	Reason for Expected Determination
1	Asbestos	fire and heat retardant used in building materials	N	No buildings removed
2	Acetaldehyde	volatile substance found in building materials (laminated, linoleum, wood varnishes, cork/pine flooring, plastic water based paints, emulsion paints, wood ceilings, particle board, plywood, pine wood, chipboard furniture); stationary internal combustion engines & power plants that burn fossil fuels wood, or trash; oil & gas extraction; refineries; cement kilns; lumber & wood mills; paper mills;	N	No known activities of this nature
3	Allyl alcohol	Used in optical resins, safety glasses, CRT screen, paints & coatings; silane coupling agents; and polymer crosslinking agents	N	No known activities of this nature
4	Allyl chloride	Used as chemical intermediate in the mfg. of pharmaceuticals, varnishes, epoxy resins, adhesives, plastics, glycerol, and insecticides. automotive repair shops; educational services; metal industries	N	No known activities of this nature
5	Amyl acetate	solvent, ingredient in artificial fruit flavoring agent	N	No known activities of this nature
6	Aniline	Manufacturing of polyurethane; precursor to dyestuffs, rubber processing chemicals; herbicides; dyes & pigments	N	No known activities of this nature
7	Benzonitrile	solvent; color and odor removing agent; pesticides	N	No known activities of this nature
8	Benzyl chloride	dyes, pharmaceutical, perfume & flavoring products, photography developing; mfg. of synthetic tannins; gum inhibitor in fuels; irritant gas in chemical warfare; sources of emissions can be from burning polyvinyl chloride, neoprene, and rigid urethane foam, emissions from plasticized floor tile	N	No known activities of this nature
9	Butyl acetate	solvent in oil based lacquers & enamels; inks; adhesives; solvent	N	No known sources
10	Butylamine	agriculture chemicals; rubber chemicals; nylon plasticizers; additive to fuel and oil	N	No known sources
11	Captan	pesticide, fungicide	N	Not used at this site
12	Carbaryl	insecticide, pesticide	N	Not used at this site

#	Substance	Source, Associated Activity, How Substance Used	Substance May Be Present @ This Site	Reason for Expected Determination
13	Carbofuran	pesticide	N	Not used at this site
14	Carbon disulfide	pesticide, insecticide, solvent, mfg. Of viscose rayon, cellulophane film, carbon tetrachloride, xanthogenates, and vacuum tubes	N	No known activities of this nature
15	Chloropyrifos	pesticide	N	Not used at this site
16	Coumaphos	insecticide	N	Not used at this site
17	Cresol	automobile exhausts, power plants, & oil refineries; disinfectants, preservatives, wood preservatives, solvent, herbicide, insecticide, manufacturing explosives, fragrance, dyes	N	Any source from equipment exhaust would be minimal
18	Crotonaldehyde	mfg. of sorbic acid (yeast & mold inhibitor); warning agent in fuels; alcohol denaturant; stabilizer for tetraethyl-lead; prep rubber accelerators; leather tanning	N	No known activities of this nature
19	Cyclohexane	manufacturing of nylon; solvent; paint, resins, varnish, oils, plasticisers	N	No known activities of this nature
20	2,4-Dichlorophenoxy acetic acid	herbicide, pesticide	N	No known sources, not utilized on site
21	Diazinon	insecticide	N	No known sources, not utilized on site
22	Dicamba	herbicide	N	No known sources, not utilized on site
23	Dichlobenil	herbicide	N	No known sources, not utilized on site
24	Dichlone	pesticide	N	No known sources, not utilized on site
25	2,2-Dichloropropionic acid	herbicide	N	No known sources, not utilized on site
26	Dichlorvos	pesticide	N	No known sources, not utilized on site
27	Diethyl amine	corrosion inhibitor; production of rubber, resins, dyes, and pharmaceuticals	N	No known activities of this nature
28	Dimethyl amine	solvent; rocket fuel; rubber vulcanization accelerators; pesticides; surfactants; photographic chemicals; corrosion inhibitors; explosives; dyes; pharmaceuticals; mfg. of rayon & nylon	N	No known activities of this nature
29	Dinitrobenzene	dyes, photographic developers, mfg. of plastics, explosives	N	No known activities of this nature

#	Substance	Source, Associated Activity, How Substance Used	Substance May Be Present @ This Site	Reason for Expected Determination
30	Diquat	herbicide	N	Not utilized on site
31	Disulfoton	insecticide	N	Not utilized on site
32	Diuron	herbicide	N	Not utilized on site
33	Epichlorohydrin	used in production of glycerol, plastics, epoxy glues, resins, & elastomers, inks , dyes, surfactants, pharmaceuticals, pesticides	N	No known source
34	Ethion	pesticide	N	Not utilized on site
35	Ethylene diamine	solvent; corrosion inhibitor in paints/coolants; animal feed additive; photo development; binders; adhesives; fabric softeners; curing agent for epoxys; dyes	N	No known activities of this nature
36	Ethylene dibromide	pesticide	N	Not utilized on site
37	Formaldehyde	naturally occurring; forest fires; automobile exhaust; tobacco; building products (veneer, particle board); processing photography film; resins; used in making automobile components	N	No known activities of this nature
38	Furfural	pesticides; herbicide	N	Not utilized on site
39	Guthion	pesticide	N	Not utilized on site
40	Isoprene	rubber for tires, adhesives	N	No known activities of this nature
41	Isopropanolamine dodecylbenzenesulfonate	soaps and detergents	N	No known activities of this nature
42	Keithane	pesticide	N	Not utilized on site
43	Kepone	insecticide	N	Not utilized on site
44	Malathion	insecticide	N	Not utilized on site
45	Mercaptodimethur	insecticide	N	Not utilized on site
46	Methoxychlor	insecticide	N	Not utilized on site

#	Substance	Source, Associated Activity, How Substance Used	Substance May Be Present @ This Site	Reason for Expected Determination
47	Methyl mercaptan	released from decaying organic matter	N	No known source
48	Methyl methacrylate	plexiglass	N	No known activities of this nature
49	Methyl parathion	insecticide	N	Not utilized on site
50	Mevinphos	insecticide	N	Not utilized on site
51	Mexacarbate	pesticide	N	Not utilized on site
52	Monoethyl amine	herbicide, making rubber, solvent	N	No known activities of this nature
53	Monomethyl amine	pesticide, making rubber, solvent	N	No known activities of this nature
54	Naled	insecticide	N	No known sources
55	Naphenic acid	oil refinery	N	No known activities of this nature
56	Nitrotoluene	agriculture, pesticide, explosives, dyes	N	Not utilized on site
57	Parathion	insecticide	N	Not utilized on site
58	Phenolsulfanate	after-shave, deodorant	N	No known source
59	Phosgene	pesticide	N	Not utilized on site
60	Propargite	pesticide	N	Not utilized on site
61	Propylene oxide	polyurethane, antifreeze (glycol)	N	Any sources from equipment would be minimal
62	Pyethrins	insecticide	N	Not utilized on site
63	Quinoline	herbicides, dyes	N	Not utilized on site
64	Resorcinol	resins, dyes	N	No known source
65	Strontium	as sulfate in igneous rock	N	No igneous rock on site
66	Strychnine	pesticide	N	No known sources
67	Styrene	rubber, plastic, foam, fiberglass	N	No known source

#	Substance	Source, Associated Activity, How Substance Used	Substance May Be Present @ This Site	Reason for Expected Determination
68	2,4,5-Trichlorophenoxy acetic acid	herbicide	N	Not utilized on site
69	Tetrachlorodiphenylethane	insecticide	N	Not utilized on site
70	2,4,5-Trichlorophenoxy propanoic acid	pesticide	N	Not utilized on site
71	Trichlorofan	insecticide	N	Not utilized on site
72	Triethanolamine dodecylbenzenesulfonate	pesticide	N	Not utilized on site
73	Triethylamine	pesticide, dyes	N	Not utilized on site
74	Trimethylamine	herbicide, dyes	N	Not utilized on site
75	Uranium	found in mining, mostly sandstone	N	No known source on site
76	Vanadium	by-product of uranium mining	N	No known source on site
77	Vinyl acetate	resins, adhesives, plastics	N	No known source
78	Xylene	solvent, ingredient in fuels	N	Any source from fuel leak would be minimal
79	Xylenol	pesticide	N	Not utilized on site
80	Zirconium	surface and mineral sand mining	N	No known source

Acid Compounds portion - Table II - Organic Toxic Pollutants

Name of Compound	Use
2-chlorophenol	is an organic compound, a derivative of phenol. Related compounds are used as a disinfectant agents and various pesticides. This particular compound has few applications, but is an intermediate in the polychlorination of phenol
2,4-dichlorophenol	is used primarily as an intermediate in the preparation of the herbicide 2,4-dichlorophenoxyacetic acid (2,4-D). Annual worldwide production is estimated at 88 million pounds. ^[1] It is also a photo-degradation product of the common antibacterial and antifungal agent triclosan along with the dioxin 2,8-dichlorodibenzo-p-dioxin.
2,4-dimethylphenol	used in making pharmaceuticals, insecticides, fungicides, rubber chemicals, dye stuffs, and plastics
4,6-dinitro-o-cresol	herbicide and insecticide
2,4-dinitrophenol	do not occur naturally but are all manufactured compounds.... is primarily used for scientific research and in manufacturing. It has been used at times to make dyes, other organic chemicals, and wood preservatives. It has also been used to make photographic developer, explosives, and pesticides.
2-nitrophenol	is used mainly as an intermediate for the production of dyestuffs, pigments, rubber chemicals, and fungicides.
4-nitrophenol	leather tanning, insecticide, dyestuff, laboratory reagent,
p-chloro-m-cresol	pesticide
pentachlorophenol	used as a pesticide and a disinfectant
phenol	Phenol was first extracted from coal tar, but today is produced on a large scale (about 7 billion kg/year) using a series of industrial processes starting with crude oil. It is an important industrial commodity as a precursor to many materials and useful compounds. ^[4] Its major uses involve its conversion to plastics or related materials. Phenol and its chemical derivatives are key for building polycarbonates, epoxies, Bakelite, nylon, detergents, herbicides such as phenoxy herbicides, and a large collection of pharmaceutical drugs
2,4,6-Trichlorophenol	is a chlorinated phenol that has been used as a fungicide, herbicide, insecticide, antiseptic, ^[1] defoliant, and glue preservative