Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
DH-1-OB	1145.1'	60'	12'	Wbgr	1084.1'	---
		62'	48'	Wbg	1079.1'	
DH-2-OB	1120.8'	41'	36'	Wbgr	1076.8'	1077.8'
		45'	24'	Wbg	1073.8'	
DH-3-OB	1137.7'	50'	72'	Wbg	1081.7'	1089.7'
		7'	36'	WbgA	1142.68'	
DH-4-OB	1152.68'	69'	36'	Wbgr	1080.68'	1084.68'
		73'	36'	Wbg	1076.68'	
DH-5-OB	1138.14'	53'	12"	Wbgr	1084.14'	1088.14'
		55'	48"	Wbg	1079.14'	

N40° 00' 42.0"
W80° 01' 48.0"

Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevations	Static Water Level
Y-1	1145.9'	26'	24"	Wbgr	1117.9'	---
		29'	48"	Wbg	1112.9'	
Y-2	1181.6'	62'	24"	Wbgr	1117.6'	---
		65'	36"	Wbg	1113.6'	
Y-3	1167.9'	49'	36"	Wbgr	1115.9'	---
		53'	24"	Wbg	1112.9'	
Y-4*	1182.3'	47'	24"	Wbgr	1133.3'	---
		51'	24"	Wbg	1129.3'	
Y-5*	1134'	8'	6"	Wbg	1125.5'	---
Y-6	1170'	38'	24"	Wbgr	1130'	---
		42'	36"	Wbg	1125'	
Y-7	1221.5'	29'	36"	WbgA	1189.5'	---
Y-8	1180.7'	59'	24"	Wbgr	1119.7'	---
		62'	36"	Wbg	1115.7'	
Y-9	1167.1'	48'	84"	Wbg	1112.1'	---
		61'	12"	LWbg	1105.1'	
Ondrik Drilled Well	1073'	97'	---	---	---	---

* Location shown on Exhibit 6.1

TS - Top Split; BS - Bottom Split; Wbg A - Waynesburg "A" Seam; Wbgr - Waynesburg Rider; LWbg - Lower Waynesburg; BOV - Bottom of Void

Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
BH-1	915.67'	32.9'	43.5'	Benwood Limestone	839.27'	862.87'
		81.2'	0.5'	Sewickley coal	833.97'	
BH-2	931.75'	51.5'	46.5'	Benwood Limestone	834.75'	845.95'
		101'	1.1'	Sewickley coal	829.65'	
BH-3	939.75'	58.9'	44.6'	Benwood Limestone	836.25'	845.75'
		108.3'	0.8'	Sewickley coal	830.65'	
DH-1	922.66'	33'	48'	Benwood Limestone	841.66'	900'
		83'	3'	Sewickley coal	836.66'	
DH-2	920.76'	35'	44'	Benwood Limestone	841.76'	901'
		85'	1.5'	Sewickley coal	834.26'	
DH-3	911.56'	25'	48'	Benwood Limestone	838.56'	901'
		75'	1.5'	Sewickley coal	835.06'	
DH-4	925.08'	27'	31"	Benwood Limestone	846.08'	904'
		82'	1'	Sewickley coal	842.08'	
DH-5	934.08'	33'	52'	Benwood Limestone	849.08'	923'
		87'	1'	Sewickley coal	846.08'	
DH-6	871.5'	0	29'	Benwood Limestone	842.5'	845'
		33'	1.5'	Sewickley coal	837'	
JLF-50	820'	111'	11"	Pittsburgh Rider (3)	708.1'	---
		112.3'	5"	Pittsburgh Rider (2)	707.3'	
		114'	12"	Pittsburgh Rider (1)	705'	
		116.1'	73"	Pittsburgh	697.8'	
Thompson Shaft (Location shown on Exhibit 6.1)	979'	38'	10"	Waynesburg Rider	940.2'	---
		39'9"	34"	Waynesburg	936.5'	
		205'	51"	Benwood Limestone	723'	
		259'	16"	Sewickley	718.7'	
		377'4"	77"	Pittsburgh	595.25'	
3523 (Location shown on Exhibit 6.1)	1223'	52'	60"	Waynesburg	1166'	---
		235'	55'	Benwood Limestone	933'	
		290'	36"	Sewickley	930'	
		385'	48"	Pittsburgh	834'	
H-BH-1*	902'	185'	MV	Pittsburgh B.O.V.	717'	745'; 757.7' (3/12/18)
H-BH-2*	846.2'	136'	MV	Pittsburgh B.O.V.	710.2'	746.2'
H-BH-3*	814.1'	98.1'	MV	Pittsburgh B.O.V.	716'	743'
H-BH-4*	816.7'	104.7'	MV	Pittsburgh B.O.V.	712'	743'
Hole #1	875.4'	25'	25'	Benwood Limestone	825.4'	Dry
		59'	---	Top of Sewickley	816.4'	
Hole #2	872.6'	25'	2'	Benwood Limestone Mostly Absent	845.6'	854'
B-1	1023.8'	156.2'	41.2'	Benwood Limestone	826.4'	887.5'
		203.2'	12'	Sewickley Coal	819.6'	
B-2	1016.1'	161.4'	45.4'	Benwood Limestone	809.3'	873.3' (10/25/19)
		210.2'	9.6'	Sewickley Coal	805.1'	881.5' (10/30/19)

TS - Top Split; BS - Bottom Split; Wbg A - Waynesburg "A" Seam; Wbgr - Waynesburg Rider; LWbg - Lower Waynesburg; BOV - Bottom of Void
* Injection Wells to be permanently sealed by PA Coal Reclamation, Inc.

Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
TH-1	1127.7'	50'	3'	Waynesburg coal	1074.7'	1078.7'
		216.7'	53.6'	Benwood Limestone	857.4'	
		272.8'	0.8'	Sewickley horizon	854.1'	
TH-2*	1108.6'	24'	Pit	Waynesburg coal	1084.6'	1038.3'
		190.7'	53.3'	Benwood Limestone	864.6'	
		245.6'	0"	Sewickley horizon	862.9'	
TH-3	1161.1'	15'	3'	Wbg A	1143.1'	1099.3'
		82'	3'	Wbg(Top) TS1	1076.1'	
		86'	1'	Wbg(BS)	1074.1'	
		254'	53'	Benwood Limestone	854.1'	
		308'	1'	Sewickley	852.1'	
TH-4*	1135.9'	21'	3'	Wbg A	1111.9'	1066.8'
		75'	3'	Wbg(TS)	1057.9'	
		80'	2'	Wbg(BS)	1053.9'	
		250'	48'	Benwood Limestone	837.9'	
		302'	3'	Sewickley	830.9'	
TH-5	1093.6'	55'	Pit	Wbg	1038.6'	Plugged
TH-6*	1202.6'	101'	3'	Wbg A	1098.6'	1048.9'
		156'	1'	Wbg(TS)	1045.6'	
		324'	54'	Benwood Limestone	824.6'	
		380'	---	Sewickley (Top of Coal)	822.6'	
TH-7	1165.3'	57'	7'	Wbg (TS)	1101.3'	1118.9'
		69'	1'	Wbg (BS)	1095.3'	
		235'	54'	Benwood Limestone	876.3'	
		291'	---	Sewickley (Top of Coal)	874.3'	

TS - Top Split; BS - Bottom Split; Wbg A - Waynesburg "A" Seam; Wbgr - Waynesburg Rider; LWbg - Lower Waynesburg; BOV - Bottom of Void
* Boreholes remain open to monitor static water levels

N39° 59' 46.0"
W80° 01' 46.0"

Legend

- Permit Boundary - 359.1 acres
- Surface Site Boundary - 110.1 acres
- Underground Mining Boundary - 256.6 acres
- 1000' Perimeter
- 23 — Property Ownership (keyed to table and module 5)
- Property Line
- Municipal Boundary
- Utility (overhead) — E-Electric (West Penn Power); T-Telephone (Marianna-Scenery Hill Telephone Co.)
- Utility (underground) — G-Gas (As Noted) W-Water (Southwestern Pennsylvania Water Authority)
- Buildings (occupied/unoccupied)
- Existing Gas Well — Gas Company Gas Well Permit No.
- Variance Area - Surface Mining Allowed
- Restricted - No Surface Mining Without a Variance
- Wetland - Delineated, Flagged and Surveyed
- Wetland - Visually Identified and Mapped
- Tree Line
- Module 14 Cross-sections
- Bottom of Benwood Limestone Cropline
- Formation Contact Line - Top of Benwood Limestone
- Waynesburg Coal Cropline
- WbgA — Waynesburg A Coal Cropline
- Deep Mine Area and Portal
- Previously Surface Mined Areas
- Existing Culverts
- Proposed Culverts — RCP-Reinforced Concrete Pipe CPP-Corrugated Plastic Pipe CMP-Corrugated Metal Pipe SP-Steel Pipe
- Cemetery
- Proposed Final Highwall
- Existing Highwall
- Reclaimed Highwall (4/2021)
- 001 — NPDES Point
- XXXXXXXX — Earthen Berm
- Super Filter Fabric Fence
- C-1 — Collection Ditch - Grass Lined
- RC-1 — Collection Ditch - Rock Lined
- D-1 — Diversion Ditch
- Level Lip Spreader
- Ditch Energy Dissipator
- Sedimentation Pond
- TB-1 — Treatment Basin - N/A
- Non-Prime Farmland Topsoil Storage area
- Prime Farmland Topsoil Storage Area - N/A
- Temporary Spoil Storage Area
- Perennial Stream
- Intermittent Stream
- Ephemeral Stream
- Relocated / Reconstructed UNT "E"
- Existing Pond / Impoundment
- Prime Farmland Soils - Negative Determination Requested
- Product Stockpiles
- TH-1 — Test Hole
- OB-A — Overburden Analysis Test Hole
- MW-1 — Monitoring Well
- Mining Bench Contour Line
- Mining Bench Index Contour Line
- PUBLIC — Indicates dwelling is served by public water
- Haul Road
- A—B — Geologic Cross Sections
- No underground mining until PennDOT approval is secured
- P—P — Phase Boundary
- Phase Designation
- Overhead Utility Pole

Building Key
H - House
TR - Trailer
B - Barn
S - Shed
C - Carport
G - Garage
P - Pool/Pond
SI - Silo
CH - Church

Dip 1.6% N 11° E Strike of the Beds on Clyde Mine Mapping (Not Visible on TH-1 and TH-5)
Dip 1.2% N 38° E Strike of the Beds on Clyde Mine Mapping (Not Visible on TH-1, TH-2 and TH-5)
Dip 1.2% N 35° E Strike of the Beds on Clyde Mine Mapping (Not Visible on TH-1, TH-2, TH-3 and TH-6)

N40° 00' 42.0"
W80° 03' 10.0"

N 255000'
N 254000'
N 253000'
N 252000'
N 251000'
N 250000'

E 1324000'
E 1325000'
E 1326000'
E 1327000'
E 1328000'
E 1329000'
E 1330000'
E 1331000'

N 246896.9797'
E 1323455.3085'

Property Ownership

1. John Kosky Contracting Inc.
2. Clyde Holding, Inc.
3. John Kosky Contracting Inc.
4. John Kosky Contracting Inc.
5. John Alan & Stacy A. Kosky
8. Kathleen Martincic & Dan B. Derber
9. Cathy H. & John P. Lozosky
10. Dolores Thompson & Leslie A. Hutchins, Jr.
10A. Edgar C. Sweany, Jr. & Carol Hupp
10B. Raymond R. & Tammy M. Schmitt
11. Frank & Mary Jane Efaw
12. Travis D. & Shannon R. Rhodes
13. William & Dana Mikolay
14. Wilford A. & Pearlie Buel
15. John L., jr. & Kim Ondrik
16. Paul A. & Deanne Hein
17. Robert E. & Patricia L. Kiefer
18. David K. & Robert G. Sloan
19. Brian L. Lancaster
20. Virginia A. Crawford Rev. Trust
21. Christopher J. & Brittany N. Coffield
22. Christopher J. & Brittany N. Coffield
23. East Bethlehem Church
24. Kenneth & Cathleen Harasty
25. Michael J. & Sylvia A. Burke
26. Alyssa M. Ford
27. David A. Webeck & James C. Webeck
28. Joshua A. Zuchowski
29. James C. & Marilou Webeck
30. Robert J. Sweany
30A. Robert J. & Marsha L. Sweany
31. Southwestern PA Water Authority
32. Renee E. Simpson
33. William L. Beck
34. Buckingham Cemetery Assn
35. Mark A. Yohe
36. John Alan & Stacy A. Kosky
37. John Alan & Stacy A. Kosky
38. Frank G. & Margaret J. Startare & Joseph J. Startare
39. Joseph J. & Nena M. Startare
40. Jason White
41. Freddie D. Ervin
42. Deborah J. & Joseph C. Shriner
43. Deborah J. & Joseph C. Shriner
44. Robin L. Doman & Susan G. Gunchuck
45. Joseph A. & Shirley S. Yablonski and Joseph M. Yablonski
46. Harold & Kathleen Rice
47. Harold & Kathleen Rice
48. Margaret A. Furman & Katherine M. Kasula
49. Margaret A. Furman & Katherine M. Kasula
50. Bethanne L. Morgan
51. Cantoni Farms LTD Partnership
52. David A. Smerecniak
53. Joanna L. Dragan

EXHIBIT 9 PHASE 1 BOND MAP LEGEND

- MINING AREA – 72.6 ACRES
- BONDED SUPPORT AREA – 54.8 ACRES
- BONDED MINING AREA – 9.5 ACRES
- BONDED RIPARIAN AREA – 8.3 ACRES

Clyde Mine Pool elevation data collected by AMD Industries at the Clyde Mine Treatment Plant will also be submitted with quarterly data.

N39° 59' 46.0"
W80° 03' 08.0"

Mine Summary Chart

Key	Operator	Permit No.	Mine Name	Status	Coal Seams
			Surface Mines		
I	Neiswonger Construction, Inc.	63100401	Maggie Lynn Quarry	Active	Benwood Limestone
II	Neiswonger Construction, Inc.	63110101	Bugger #1	Completed	Wbg
III	PA Coal Reclamation, Inc.	63813210	Hawkins	Active	Coal Refuse Reprocessing
IV	Twilight Industries, Division of U.S. Natural Resources, Inc.	32A77SM3 32745M29	LOS	Completed	Wbg
V	Boyle Land & Fuel Co.	63860106	Fitzwater	Completed	Wbg
VA	Boyle Land & Fuel Co.	63823036	Huffman	Completed	Wbg
VIII	Nardei Contracting Co., Inc.	32755M30	Fitzwater	Completed	Wbg
VI*	BCNR Mining Corp.	63743703	Clyde Mine-Black Dog Hollow	Abandoned	Coal Refuse Disposal
IX	Westmont Coal Company, Inc.	6376144	Deemston	Completed	Wbg
	TRAM Resources, Inc.	32A77SM6	Fargo	Abandoned	Wbg
	B.L.F. Corp.	32B76SM8	Bushta	Completed	Wbg
	Dragan & Son	32B76SM2	Belle No. 11	Completed	Wbg
			Underground Mines		
**	MonValley Steel Company, Inc.	63891301	Clyde	Completed	Pittsburgh
	Unknown	Unknown	Country Bank	Abandoned	Wbg

* Location shown on Exhibit 6.1
** The Clyde underground mine underlies the entire permit boundary and the 1000' perimeter around it.

100-YEAR FLOOD PLAIN LIMIT FROM FEMA'S FLOOD INSURANCE RATE MAPS #42125C0545E & #42125C0706E
100-YEAR FLOOD PLAIN (ELEVATION 823.5) AFTER CONSTRUCTION OF SEDIMENTATION POND P-1

Notes:

1. The base map is comprised of topography (5' C.I.) developed from LiDAR 2' contour data obtained from the PASDA website. The locations of roads, buildings, surface water features and other cultural data were obtained from the Ellsworth & Mather, PA 7.5' USGS Quadrangle maps and supplemented/corrected by field survey and available aerial photography.
2. The property lines and property ownership shown on this map were obtained from Washington County and from Greene County tax assessment maps and records. This map does not represent an actual field survey of the properties shown and should not be used as such. All surface and mineral ownership information should be verified by the permittee.
3. All overburden and test hole elevations and locations were determined by field survey.
4. The location and extent of abandoned surface and deep mine workings depicted on this map are based upon available data without the benefit of a final certified mine map. Accordingly, neither GeoTech Engineering, Inc. nor the professional engineer / professional geologist signing this map certifies, warrants or guarantees the precise location or extent of abandoned, reclaimed or active workings depicted hereon. Unknown or unmapped mines may extend beyond the depicted boundaries and may contain abandoned mine pools as well as other safety hazards.
5. This map is georeferenced to the Pennsylvania State Plane South, North American Datum 1983 (NAD 83) coordinate system.
6. All units are in feet.

Scale 1" = 200'
0 200 400

PENNSYLVANIA ACT 187 (1991) REQUIRES 3 WORKING DAYS NOTICE FROM EXCAVATORS WHO ARE ABOUT TO : DIG, BLAST,AUGER,BORE,GRADE,TRENCH OR DEMOLISH ANYWHERE IN THE COMMONWEALTH.
POCS SERIAL NUMBER(S): 20172563550

In the design phase of this project, GeoTech Engineering, Inc. performed a PA One Call inquiry for the proposed permit area. All underground utility owners that responded to the PA One Call submission were contacted and their utilities are depicted on the Exhibits, as located in the field or from mapping provided from the utility. However, in direct violation of the laws of the Commonwealth of Pennsylvania, not all underground utility owners are registered with the PA One Call System. Where evidence suggests there are additional underground utilities located in the permit area, GeoTech has contacted the utility owner to properly depict the underground utility location on the Exhibits. Current landowners are not always aware of underground utilities on their property and there may not be any visual evidence of an underground utility owned by those not registered with the PA One Call System. Accordingly, the permit operator, GeoTech Engineering, Inc. nor the professional engineer signing this map certifies that this map depicts underground utilities that are not properly registered with the PA One Call System.

Neiswonger Construction, Inc.
17592 Route 322, Strattanville, PA 16258
Phone: (814) 764-3455

Maggie Lynn Underground Mine
Permit No. 63192001
Exhibit 9: Operations Map

Date: December, 2021

Seal: COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — CHRISTOPHER CARL PETERSON — ENGINEER — PE044835

Deemston Borough — Washington County

Revisions:
April, 2023
December, 2023
April, 2024
July, 2024

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