



Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
DH-1-OB	1145.1'	60'	12"	Wbg	1084.1'	---
DH-2-OB	1120.8'	41'	48"	Wbg	1079.1'	---
DH-3-OB	1137.7'	41'	24"	Wbg	1073.7'	1077.8'
DH-4-OB	1152.68'	50'	72"	Wbg	1081.7'	1089.7'
DH-5-OB	1138.14'	69'	36"	Wbg	1069.68'	1084.68'
						1088.14'

Legend

- Permit Boundary - 336.7 acres
- Surface Site Boundary - 87.5 acres
- Underground Mining Boundary - 256.6 acres
- 100' Perimeter
- Property Ownership (keyed to table and module 5)
- Municipal Boundary
- Structure Contour Line - Base of the Benwood Limestone
- Inferred Structure Contour Line - Base of the Benwood Limestone
- Utility (overhead)
- Utility (underground)
- Buildings (occupied/unoccupied)
- Existing Public Roads
- Existing Private Roads
- Existing Gas Well
- Test Hole
- Overburden Analysis Test Hole
- Variance Area - Surface Mining Allowed
- Restricted - No Surface Mining Without a Variance
- Wetlands - Delineated, Flagged and Surveyed
- Wetlands - Field Identified and Mapped
- Woods
- Bottom of Benwood Limestone Cropline
- Formation Contact Line - Top of Benwood Limestone
- Waynesburg A Coal Cropline
- Waynesburg B Coal Cropline
- Deep Mined Areas and Portal
- Previously Surface Mined Areas
- Existing Culverts - size and type or Key to Module 12 page 12-1
- RCP-Reinforced Concrete Pipe
- CMP-Corrugated Metal Pipe
- SP-Steel Pipe
- Cemetery
- Ground Slope
- Geologic Cross Section
- Strike and Dip
- Geologic Faults - N/A
- Joint Measurement
- Ground Water Flow (Local)
- Ground Water Flow (Regional)
- Spring
- Private Water Supply
- Water Sampling Point (Background)
- Water Sampling Point (Monitoring)
- Flow Measuring Station - Flow Measuring Unit
- S-Spring P-Pond T-Tributary S-Stream SE-Seep W-Well DM-Deep Mine Discharge WL-Wetland I-Impoundment C-Cistern DW-Dug Well
- Perennial Stream
- Intermittent Stream
- Epifaunal Stream
- Relocated / Reconstructed UNT "E"
- Existing Pond / Impoundment
- Monitoring Well (Background Sample)
- 100' Cover Line Above Top of Benwood Limestone
- Geologic Cross Section Location From SMP No. 63100401
- NPDES Point
- Indicates dwelling is served by public water
- Haul Road
- No underground mining until PennDOT approval is secured
- Overhead Utility Pole

The PA DCNR Conservation Measures listed in the FNDI will be followed to protect plant species of special concern.

Dip 1.6%
Dip 1.2%
Dip 1.2%

N40° 00' 42.0"
W80° 01' 48.0"

- #### Property Owners
- John Kosky Contracting Inc.
 - Clyde Holding, Inc.
 - John Kosky Contracting Inc.
 - John Kosky Contracting Inc.
 - John Alan & Stacy A. Kosky
 - Peoples Natural Gas Company LLC
 - Peoples Natural Gas Company LLC
 - Kathleen Martinic & Dan B. Derber
 - Cathy H. & John P. Lozowsky
 - Dolores Thompson & Leslie A. Hutchins, Jr.
 - Edgar C. Swamy, Jr. & Carol Hupp
 - Raymond R. & Tammy M. Schmitt
 - Frank & Mary Jane Elav
 - Travis D. & Shannon R. Rhodes
 - William & Dana Miskley
 - Wilford A. & Pearlise Buel
 - John L., Jr. & Kim Ondrick
 - Paul A. & Deanne Hein
 - Robert E. & Patricia L. Kiefer
 - David K. & Robert C. Sloan
 - Bryan L. Lancaster
 - Virginia A. Crawford Roy, Trust
 - Christopher J. & Brittany N. Coffield
 - Christopher J. & Brittany N. Coffield
 - East Bethlehem Church
 - Kenneth & Kathleen Harasty
 - Michael J. & Sylvia A. Burke
 - Alyssa M. Ferd
 - David A. Webeck & James C. Webeck
 - Joshua A. Zuprovick
 - James C. & Mariko Webeck
 - Robert J. & Marsha L. Swamy
 - Robert J. & Marsha L. Swamy
 - Southwestern PA Water Co.
 - Renee E. Simpson
 - William L. Beck
 - Buckingham Cemetery Assn
 - Mark A. Yocum
 - John Alan & Stacy A. Kosky
 - John Alan & Stacy A. Kosky
 - Frank G. & Margaret J. Startare & Joseph J. Startare
 - Joseph J. & Nena M. Startare
 - Jason White
 - Freddie D. Ervin
 - Deborah J. & Joseph C. Shriver
 - Deborah J. & Joseph C. Shriver
 - Robert L. Doman & Susan G. Giachuck
 - Joseph A. & Shirley S. Yabonski and Joseph M. Yabonski
 - Harold & Kathleen Rice
 - Harold & Kathleen Rice
 - Margaret A. Furnan & Katherine M. Kasula
 - Margaret A. Furnan & Katherine M. Kasula
 - Bethanne L. Morgan
 - Carlton Farms LTD Partnership
 - David A. Smerczek
 - Joanna L. Dragan

Flow Monitoring Chart

Sample Point	Surface Elevation	Description
15	901.4'	Spring - Monthly Flow Only
A	891.9'	Unnamed Tributary "E" downstream above wetland - Monthly Flow Only
B	908'	Unnamed Tributary "E" downstream of confluence with Eastern Branch - Monthly Flow Only
D	914.3'	Unnamed Tributary "E" Eastern Branch downstream - Monthly Flow Only
E	962'	Unnamed Tributary "E" Western Branch downstream of sample point 22 at confluence with stream from pond 17 - Monthly Flow Only
F	958'	Unnamed Tributary "E" Western Branch downstream from pond sample point 17 at confluence with flow measuring point E - Monthly Flow Only
G	937.9'	Unnamed Tributary "E" Eastern Branch downstream of sample point 5 and upstream of flow measuring point D - Monthly Flow Only
H	995.8'	Unnamed Tributary "E" Eastern Branch downstream of sample point 5 and upstream of flow measuring point C - Monthly Flow Only
17	1037.84'	Pond - Monthly Flow Only
21	1062.12'	Iron stoned seep zone - Monthly Flow Only

Mine Summary Chart

Key	Operator	Permit No.	Mine Name	Status	Coal Seams
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	Tenrich Industries, Division of U.S. Natural Resources, Inc.	324775843	LOS	Completed	Wbg
V	Boyle Land & Fuel Co.	63860108	Fitzwater	Completed	Wbg
VI	Boyle Land & Fuel Co.	63829206	Huffman	Completed	Wbg
VIII	Nardie Contracting Co., Inc.	32755830	Fitzwater	Completed	Wbg
IX	BCNR Mining Corp.	63743703	Clyde Mine-Black Dog Hollow	Abandoned	Coal Refuse Disposal
X	Westmont Coal Company, Inc.	6376144	Deemston	Completed	Wbg
XI	TRAM Resources, Inc.	324775346	Fargo	Abandoned	Wbg
	B.L.F. Corp.	32676586	Busha	Completed	Wbg
	Dragan & Son	32876582	Belle No. 11	Completed	Wbg
AA	MonValley Steel Company, Inc.	63891301	Clyde	Completed	Pittsburgh
	Unknown	Unknown	County Bank	Abandoned	Wbg

Water Monitoring Chart

Station	Surface Elevation	Description
1	1064'	Ten Mile Creek - intermediate point
2	1064'	Small underground mine discharge and headwaters of eastern branch Unnamed Tributary "E" to Ten Mile Creek & Monthly Flow
3	1064'	Headwaters of Unnamed Tributary "D" eastern branch
4	1122'	Unnamed Tributary "D" - upstream
5	1122'	Headwaters of Unnamed Tributary "D" eastern branch
6	1122'	Unnamed Tributary "D" - upstream
7	1020'	Unnamed Tributary "D" to Ten Mile Creek - intermediate point
8	1020'	Unnamed Tributary "E" to Ten Mile Creek - downstream & Monthly Flow
9	1020'	Wetland discharge
10	817.1'	Spring which occurs from the local flow system near the base of the Benwood Limestone
11	817.4'	Spring which occurs from the local flow system within the Benwood Limestone
12	808.6'	Unnamed Tributary "D" to Ten Mile Creek - downstream
13	804'	Ten Mile Creek - downstream
14	820'	Unnamed Tributary "G" to Ten Mile Creek - downstream
15	820'	Ten Mile Creek - upstream
16	1166.9'	Unnamed Ephemeral Tributary "A" to Black Dog Hollow - upstream
17	1131.4'	Headwaters of Unnamed Tributary "A" to Black Dog Hollow
18	948.8'	Unnamed Tributary "G" to Ten Mile Creek - intermediate location
19	812'	Reconstructed stream - downstream
20	820'	Unnamed Tributary "G" to Ten Mile Creek - downstream
21	1044'	Unnamed Tributary "G" - upstream
22	1142'	Headwaters of Unnamed Ephemeral Tributary "A" to Black Dog Hollow
23	1060'	Unnamed Tributary "A" to Black Dog Hollow - downstream
24	1055.5'	Unnamed Tributary "B" to Black Dog Hollow - downstream
25	819.4'	Spring which occurs from the local flow system within the Benwood Limestone
26	805'	Ten Mile Creek - downstream
27	820'	Hawkins Permit subchapter F point
28	840'	Unnamed Tributary "E" Western Branch to Ten Mile Creek - upstream & Monthly Flow
29	1108.6'	Upgradient Monitoring Well - SWL only
30	1135.9'	Intermediate Monitoring Well - SWL only
31	1204.9'	Top of Coaling
32	870'	Pittsburgh Mine Pool Monitoring Well - Static Water Level Only
33	870'	Sedimentation Pond P-1

Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
TH-1	1127.7'	52'	216.7'	Waynesburg coal	851.4'	1078.7'
				Benwood Limestone	851.4'	
				Sewickley horizon	851.4'	
				Waynesburg coal	1094.6'	
				Benwood Limestone	864.6'	
				Sewickley horizon	862.6'	
				Waynesburg coal	1143.1'	
				Wbg(TS)	1074.1'	
				Wbg(TS)	1074.1'	
				Wbg(TS)	1057.9'	
				Wbg(TS)	1057.9'	
				Benwood Limestone	837.9'	
				Sewickley	830.9'	
				Wbg	1038.6'	Plugged
				Wbg	1038.6'	
				Wbg(TS)	1045.6'	
				Benwood Limestone	824.6'	
				Wbg(TS)	875.3'	
				Wbg(TS)	1101.3'	
				Wbg(TS)	1095.3'	
				Benwood Limestone	874.3'	
				Sewickley (Top of Coal)	874.3'	

Notes:

- The base map is compiled of topography (E.C.) developed from LIDAR 2 contour data obtained from the PA DNR website. The locations of roads, buildings, surface water features and other cultural data were obtained from the Elsworth & Maher, P.A.'s USGS Quadrangle maps and supplemented by field survey and available aerial photography.
- The property lines and property ownership shown on this map were obtained from Washington County and from Greene County and surface maps and records. This map does not represent an actual true survey of the properties shown and should not be used as such. All surface and mineral ownership information should be verified by the permittee.
- All overburden and test hole elevations and locations were determined by field survey. Water sample points were located by hand-dug wells with surface elevations determined from LIDAR surface elevation models.
- 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 geologist (professional geologist) making the map warranties or guarantees the precise location or extent of abandoned, unclaimed or active workings depicted thereon. Unknown or untrapped mines may extend beyond the depicted boundaries and may contain abandoned mine pools as well as other safety hazards.
- The gage well locations are from Farm Line Maps and other historic mapping, and therefore approximate locations.
- This map is georeferenced to the Pennsylvania State Plane South, North American Datum 1983 (NAD 83) coordinate system.
- All units are in feet.

Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
TH-1	1127.7'	52'	216.7'	Waynesburg coal	851.4'	1078.7'
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				Benwood Limestone	864.6'	
				Sewickley horizon	862.6'	
				Waynesburg coal	1143.1'	
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				Wbg(TS)	1074.1'	
				Wbg(TS)	1057.9'	
				Wbg(TS)	1057.9'	
				Benwood Limestone	837.9'	
				Sewickley	830.9'	
				Wbg	1038.6'	Plugged
				Wbg	1038.6'	
				Wbg(TS)	1045.6'	
				Benwood Limestone	824.6'	
				Wbg(TS)	875.3'	
				Wbg(TS)	1101.3'	
				Wbg(TS)	1095.3'	
				Benwood Limestone	874.3'	
				Sewickley (Top of Coal)	874.3'	

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

N39° 59' 46.0"
W80° 01' 48.0"

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

Maggie Lynn Underground Mine
Permit No. 63192001
Exhibit 6.2: Environmental Resources Map

Washington County
Deemston Borough

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Revision: June 2023

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