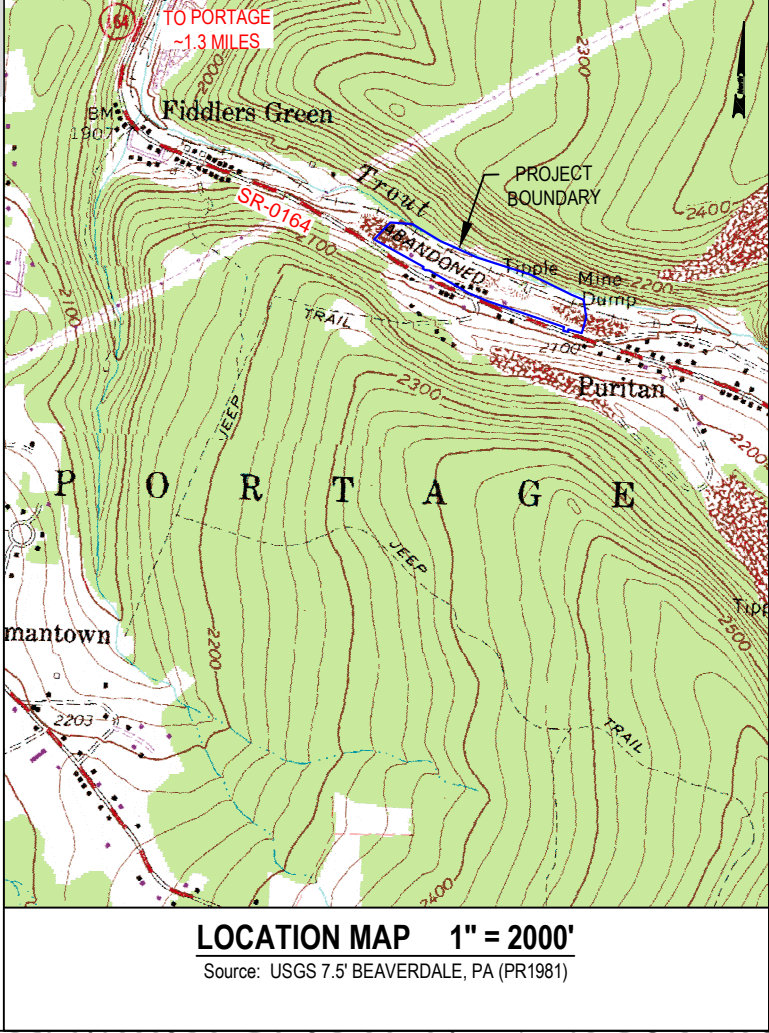


AFVFP #1 BOTTOM ELEVATIONS	
CORNER	ELEVATION (ft)
NORTHWEST	2026.5
NORTHEAST	2027.2
SOUTHWEST	2027.5
SOUTHEAST	2028.1

#	PROPERTY OWNERS
ID NUMBER	OWNERSHIP
1	COONEY BROS COAL CO.
2	NEUGERBAUER, GERALD P (TRUSTEE)
3	NEUGERBAUER, GERALD P JR (TRUSTEE)
4	FISHER, DONNA L & BRUNNET SCOTT ET AL
5	WENTURINE BROS LUMBER CO
6	FISHER, PAUL & KAREN
7	PLUMMER, JOSHUA R
8	PLUMMER, JOSHUA A
9	PAWLOSKI, EDWARD A & FRANCES R
10	UNKNOWN
11	FISHER, RICHARD L & DONNA L
12	RONAN, COURTNEY K
13	ONDESKO, BILLIE JO
14	WIETECH, RONALD J & JAMES R ET AL
15	BEYER, JAMES J
16	ROSS, COREY A
17	BRUNNET, DONALD M & MARYANN P
18	BRUNNET, DONALD M & MARYANN
19	BEHE, RAYMOND M
20	BEHE, IRENE & EUGENE
21	KRAJEWSKI, GARY L & ELIZABETH
22	FISHER, DONNA L & RICHARD L ET AL
23	CRUM, CHRISTI M
24	POLK, JOHN A ET UX
25	PARKS, DONALD M
26	PARKS, JOHN W & DONALD M
27	THOMPSON, JANICE L & BEHE, GLEN D



LEGEND	
EX. INDEX CONTOUR	AS BUILT INTERMEDIATE CONTOUR
EX. ROAD (PAVED)	AS BUILT INTERMEDIATE CONTOUR
EX. SEWER LINE (LOCATION V. APPX)	AS BUILT INTERMEDIATE CONTOUR
EX. MANHOLE (LOCATION V. APPX)	AS BUILT INTERMEDIATE CONTOUR
EX. WATERLINE (LOCATION V. APPX)	AS BUILT INTERMEDIATE CONTOUR
EX. STREAM	AS BUILT INTERMEDIATE CONTOUR
EX. PROPERTY LINE (V. APPX)	AS BUILT INTERMEDIATE CONTOUR
EX. BUILDINGS	AS BUILT INTERMEDIATE CONTOUR
EX. UTILITY POLE	AS BUILT INTERMEDIATE CONTOUR
EX. OVERHEAD UTILITY LINE (ELECTRIC)	AS BUILT INTERMEDIATE CONTOUR
AS BUILT PASSIVE TREATMENT COMPONENT	AS BUILT INTERMEDIATE CONTOUR
AS BUILT INDEX CONTOUR	AS BUILT INTERMEDIATE CONTOUR
AS BUILT INTERMEDIATE CONTOUR	AS BUILT INTERMEDIATE CONTOUR
AS BUILT 6\" DR17 HDPE PIPE (PERFORATED)	AS BUILT INTERMEDIATE CONTOUR
AS BUILT 8\" SCH40 PVC PIPE (SOLID)	AS BUILT INTERMEDIATE CONTOUR
AS BUILT 12\" DR26 HDPE PIPE (PERFORATED)	AS BUILT INTERMEDIATE CONTOUR
AS BUILT 12\" HDPE (N-12) PIPE	AS BUILT INTERMEDIATE CONTOUR
AS BUILT 12\" SCH40 PVC (SOLID)	AS BUILT INTERMEDIATE CONTOUR
AS BUILT 24\" HDPE (N-12) PIPE	AS BUILT INTERMEDIATE CONTOUR
AS BUILT DIVERSION DITCH	AS BUILT INTERMEDIATE CONTOUR
AS BUILT RIPRAP LINED CHANNEL	AS BUILT INTERMEDIATE CONTOUR
AS BUILT EMERGENCY SPILLWAY	AS BUILT INTERMEDIATE CONTOUR
BENCHMARK	AS BUILT INTERMEDIATE CONTOUR
WATER SAMPLE LOCATION	AS BUILT INTERMEDIATE CONTOUR

GENERAL NOTES:

- Base map contours derived from a 2006 bare-earth digital elevation model constructed from PAMAP LIDAR elevation points by PA DCMR, Bureau of Topographic and Geologic Survey (PA State Plane - South (US Survey Foot) NAD83 (Vertical datum - NAVD83)). Selected topographic and cultural features from 2006 PAMAP aerial photos obtained from www.pasda.psu.edu and USGS 7.5' Beaverdale, PA (PR1981). Additional information from limited 2015 & 2019 site investigations by BioMost. Supplemental base map information was obtained from PASDA, PA Mine Map Atlas website, and 2011 Design Drawings by Penn Terra Engineering Inc.
- The bench mark elevation provided was established by setting primary control benchmark (BM1) located on the eastern side of the project area and recording that location using a Sub-Centimeter Grade JAVAD GPS unit.
- Stream presence/extent determined from "blue lines" of USGS 7.5' topographic map - locations revised based on LIDAR contours and site investigations.
- All dimensions are in feet unless otherwise noted. All slope designations are H:V.
- Property line locations are very approximate. Locations based on Cambria County on-line property maps (<http://gis.cambriacountypa.gov/publicgis1/>) for Portage Township accessed 4/2019. **This is not a property survey.**
- As-built features from design information, field observations during construction, and 2020 post-construction measurements with a JAVAD Triumph-i.S sub-centimeter GPS. As-built features are a reasonable representation of actual conditions as of September 2020 and are subject to change based on variable mine drainage flow and precipitation, future maintenance, and other factors. The bottom dimensions/elevations of SP1 are approximate.

REPRESENTATIVE AMD CHARACTERISTICS							
Point	FLOW	pH	Acid	T Fe	T Mn	T Al	Sulfides
Puritan Discharge (TR4)	AVG/DESIGN 300/600	3	114	6	1	12.4	653

Flow in gpm; concentrations in mg/L.
Design: Max measured flow rate is 1599 gpm used for hydraulic capacity design (for treatment purposes a design flow rate of 600 gpm was selected) The passive treatment system is designed to operate in "batch treatment" mode utilizing a solar powered smart drainage system. All other Design parameters are "average values" from Saint Francis / BioMost 2017-2018 monitoring.

SHEET 1 of 2

As-Built Plan View

LOCATION MAP, LEGEND, & NOTES

PURITAN AMD FULL TREATMENT PASSIVE TREATMENT SYSTEM

for
TROUT RUN WATERSHED ASSOCIATION
CAMBRIA COUNTY CONSERVATION DISTRICT
&
STREAM RESTORATION INCORPORATED

Trout Run Watershed
Portage Township, Cambria County, PA
Scale: 1" = 60' October 2020

BioMost, Inc. Mining and Reclamation Services
Mars, PA www.biomost.com

PROJECT CENTER
LAT: 40.367210
LONG: -78.646598

60 30 0 60 120

