pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ABANDONED MINE RECLAMATION

AMD Treatment System Form for Datashed

AML/AMD Remediation Projects

Project Name: Puritan AMD Full Treatment AMLIS #: _____

Latitude: 40.367210 Longitude: -78.646598 Determined by GPS? Y ☐ N ☒

Watershed Name: Little Conemaugh Receiving Stream: Trout Run

USGS Quadrangle: Beaverdale, PA County: Cambria

Township/City: Portage Township

Contact Person/Organization:	
Name:	**Address:**
Trout Run Watershed Association/Dennis Beck	161 Hemlock Drive
Telephone Number + Area Code:	Portage, PA 15946
814-243-3845	
Email Address:	
bikerbeck@comcast.com	
Organization responsible for operation/maintenance of project if different than above:	
Name:	**Address:**
Telephone Number + Area Code:	
Email Address:	

Source of AMD:							
Underground	☒	**Surface**	☐	**Refuse**	☐	**Oil-Gas well**	☐

Treatment System Information:							
Year Constructed:	2020			**Total Capital Cost:**	**$** 988,120		
Was this a Rehabilitation Project?	**Y** ☒	**N** ☐	**Date of Original System:**	2012	**Costs Of Rehabilitation:**	**$** 759,504	

Describe Rehabilitation Activities: Complete reconstruction of previously installed and undersized passive treatment system. Total cost includes the sum of three separate grants that provided cash for rehabilitation plus the original system total capital cost of $228,465. About 3,000 tons of limestone from the original system were washed and reused in the new system, however, no treatment components were left in place

If this project includes land reclamation as more than 50% of the total cost, what is the estimated cost of the land reclamation? $ _____

Primary Funding Partners and Funding Provided	
Source	**Amount**
Title IV, Appalachian Clean Streams	
PADEP Growing Greener	$641,504 ($100,770 of which is specific to coal refuse removal)
PADEP Other	
PADCNR	
AMD Set Aside Funds	
EPA Section 319	
OSM Watershed Cooperative Assistance Program	$100,000
NRCS	
EPA Watershed Protection	
USCOE	
University	
Bond Forfeiture	
Reclamation in Lieu of Penalty	
Consent Order	
Foundation for PA Watersheds	$18,000
Private/Foundation	
In-kind Contributions	$181,032 (Monitoring, design/permitting, administration)
Other Funding Partner (Please note)	$313,159 (Coal refuse removal by Robindale)

Treatment Technology: Select all that apply at the site.

Treatment System	# of Treatment Cells	Contain Siphon Automatic Flushing Y	Contain Siphon Automatic Flushing N	Comments
Typical methods		☐	☐	
Aerobic Wetland		☐	☐	
Anaerobic Wetland		☐	☐	
ALD		☐	☐	
Limestone Sand Dosing		☐	☐	
Diversion Well/Mechanical Limestone Addition		☐	☐	
Oxic Limestone Drain (OLD)		☐	☐	
Oxic Limestone Channel (OLC)		☐	☐	
Low pH Fe Oxidation Channel		☐	☐	
Limestone Pond *(Specify UP, DF or HF under comments)*	2	☒	☐	One 4,600-ton Auto-Flushing VFP dosed from Holding Pond with solar powered system with float switches. One 2,000-ton AFVFP with Agri Drain Smart Drain
SAP *(Specify UP, DF or HF under comments)*		☐	☐	
Bio-Reactor *(Specify UP, DF or HF under comments)*		☐	☐	
VFP *(Specify UP, DF or HF under comments)*		☐	☐	
Manganese Removal Bed		☐	☐	
Pyrolusite Bed		☐	☐	
Settling/oxidation Pond	3	☒	☒	Initial Holding Pond doses first AFVFP, each AFVFP has a SP directly downstream, SP1 flows to SP2

UF = Upflow DF = Downflow (like in a traditional SAP) HF = Horizontal Flow

Other Methods	Comments
Well Plugging	
Steel Slag	
Land Reclamation to cover toxic material or prevent water infiltration.	
In-Situ Treatment *(Include type under comments)*	
Chemical Addition Treatment Plant *(Include Chemical used under comments)*	
Lime Doser *(Include Chemical used under comments)*	
Mechanical Aeration *(Include type under comments)*	
Others *(discuss in comments)*	

UF = Upflow DF = Downflow (like in a traditional SAP) HF = Horizontal Flow

Project Designer:	
BioMost, Inc. in cooperation with Saint Francis University	
Organization:	**Telephone Number + Area Code:**
(see above)	724-776-0161

Water Information:

	Inflow	Outflow	Load Reductions (lbs/day)
Flow (gpm)	(see datashed)		
pH			
Total Iron (mg/L)			
Ferrous Iron (mg/L)			
Hot Acidity (mg/L)			
Alkalinity (mg/L)			
Total Aluminum (mg/L)			
Total Manganese (mg/L)			
Date of Collection			

If more detailed water quantity and quality data is available, please provide the following:	
Contact:	Uploaded to datashed.org
Telephone:	
Email:	

If receiving stream or macroinvertebrate information is available please provide the following:	
Contact:	
Telephone:	
Email:	

Comments: *(specific to O&M; performance; impact on receiving stream. Include date of inspection and name and telephone number of person making comment)*

Date	Name	Telephone Number + Area Code

Comment: As-Builts and OM&R Plan posted on www.datashed.org

Any links specific to this watershed that should be included?	
Web Address	

Send to your DEP Project Advisor with your Final Report Paperwork: One <u>digital</u> copy of the AMD Treatment System Form for Datashed, the Operational, Maintenance and Repair/Replacement (O, M & R) Plan that includes the "as-built" drawings and site schematics in PDF, and any water quality information in EXCEL format.