3710-FM-BCR0479 7/2012

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CONSERVATION AND RESTORATION

AMD Treatment System Form for Datashed

AML/AMD Remediation Projects

Project Name: Puritan Discharge -Proposed FeAlMn Bed AMLIS #: _____

Latitude: 40.366- Longitude: -78.645 Determined by GPS? Y ☒ N ☐

Watershed Name: Trout Run Wate4rshed. Receiving Stream: Trout Run

USGS Quadrangle: _____ County: CambriaPortage Township

Township/City: Portage Township

Contact Person/Organization:	
Name:	**Address:**
Dennis C. Beck	161 Hemlock Drive
Telephone Number + Area Code:	Portage, PA 15946
814-243-3845	
Email Address:	
bikerbeck@comcast.net	

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:	2012			**Total Capital Cost:**	**$** 228,465.00		
Was this a Rehabilitation Project?	**Y** ☐	**N** ☒	**Date of Original System:**		**Costs Of Rehabilitation:**	**$**	
Describe Rehabilitation Activities:							

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	$172,180.00
PADEP Other	
PADCNR	
AMD Set Aside Funds	
EPA Section 319	
OSM Watershed Cooperative Assistance Program	35,465.12
NRCS	
EPA Watershed Protection	
USCOE	
University	
Bond Forfeiture	
Reclamation in Lieu of Penalty	
Consent Order	
Foundation for PA Watersheds	
Private/Foundation	
In-kind Contributions	$20,971.12
Other Funding Partner (Please note)	

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)*	9	☐	☒	initial forebay chamber then 8 chambers - 4 over and 4 under alternating baffles
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		☐	☐	

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:	
Todd Stager	
Organization:	**Telephone Number + Area Code:**
Penn Terra Engineering Inc.	

Water Information:

	Inflow	Outflow	Load Reductions (lbs/day)
Flow (gpm)	100	85 Small leakage loss at lower end-unlined system	
pH	3.3	7.1	
Total Iron (mg/L)	8.449 mg/l	.805 mg/l	-9.2#/day
Ferrous Iron (mg/L)			
Hot Acidity (mg/L)	115.2 mg/l	-93.60 mg/l	-251#/day
Alkalinity (mg/L)	-251#/day	115.0 mg/l	+138#/day
Total Aluminum (mg/L)	9.9 mg/l	2.342 mg/l	-9.1#/day
Total Manganese (mg/L)	1.492 mg/l	.689 mg/l	+0.96#/day
Date of Collection	7/9/2013		

If more detailed water quantity and quality data is available, please provide the following:	
Contact:	Dennis C. Beck
Telephone:	814-243-3845
Email:	bikerbeck@comcast.net

If receiving stream or macroinvertebrate information is available please provide the following:	
Contact:	It was done by Portage School Students in summer 2013 results not available at this time
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: _____

_____

_____

_____

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 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.

After DEP Project Advisor has approved your Final Report Paperwork, send to the Bureau of Conservation and Restoration: One <u>digital</u> copy of the Datashed form in Word, the Operational, Maintenance and Repair/Replacement (O, M & R) Plan that includes the "as-builts" drawings and site schematics in PDF, and any water quality information in EXCEL format to the address under Final Report Guidelines.