Publicly Funded Mine Drainage	Treatment or Abatement	Project Information Sheet
General Project Information		PA-25
Project Name and or No.: Aver	y Coal Company	BF 438-102.1
Location: Municipality and County:	Beech Creek Twp.	Clinton Co.
Watershed: Middle Branch Big Run	(Bald Eagle Creek Watershed	– Subbasin 9C)
USGS Quadrangle: Howard NW a		
Latitude and Longitude: 41.175		54444
·		•
Contact Information		
Contact Organization:	•	
Contact Person:	David J. Fromell, P.E.	
Contact Address:	5th Floor, Rachel Carson S	State Office Building
	400 Market Street	
	Harrisburg, PA 17101	
Contact Telephone Number:	717-783-5646	
Contact Email:	dfromell@state.pa.us	
Comact Eman.	diformenta state. ba. do	
Organization Currently Responsib Is this organization different from Co Organization Name: Organization Contact Name: Organization Contact Address:	ontact Organization? <u>Same</u>	
Organization Telephone Number: Organization Email:		
Site Information Who owns the property the project is 1. Edna Anderson (c/o Thomas Timbe	constructed upon?	s Timberline Enterprises
Driving Directions to the Project Site The project site is located approximate 150. Access to the site is located on the northwest of the intersection with Eaglet from the area of work as shown on the Co	ely 10 miles northwest of the to west side of an unnamed grav on Road. The access road inte	wn of Beech Creek State Route el road approximately 5500 feet rsection is approximately 2 miles
Special instructions for entry to the s Site is gated. Property owner has cha Jamie Walker BCWA currently has keys	<u>anged locks several times. He is</u>	s or permissions, etc.): s OK with BAMR on his property.
Is there a perpetual access agreement Is the site readily accessible (by 2Wl Was project completed as part of an Is the plan available electrons Could you provide the DEP at Is a copy of the plan attached	O vehicle)? overall watershed restoration ically? a copy of the plan?	Yes No No Yes No No Yes No No Yes No Yes No Yes No Yes No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No Yes No Yes No Yes No

Project Description (Describe the treatment system including each individual component):

1. Raw water impoundment. 2. AMD enters bottom of Limestone Upflow Pond (LUP) via pipe, header & laterals, exits same lateral pipes via siphon #1. 3. AMD enters Sediment Pond via notched pipe and exits

(Two layers of pipes -upper layer drains via siphon #2 to flush basin.) 5. AMD enters Aerobic Wetland & flows via gravity through Limestone Bed & rock ditch to outlet. Influent flow not measurable. Effluent flow out of Limestone Bed measured via rectangluar weir. Pre-Construction Discharge Flow and Monitoring Data Yes No Is data available electronically? In what format? Microsoft Excel Access Database Other (specify) Paper Indicate how flow was measured: Unknown Indicate laboratory that analyzed samples (or whether field kits were used) DEP Labs - No SIS information on old paper copy sample results ⊠Yes [No Could you provide this data to the DEP? Yes 🛛 No Is a copy of the data attached? Pre-Construction Receiving Stream Flow and Monitoring Data □Yes ⊠ No Is data available electronically? In what format? Microsoft Excel Access Database Other (specify) Indicate how flow was measured: Pre-construction receiving stream (Middle Branch Big Run) flow not measured. Some information on stream flow and monitoring available in Middle Branch Big Run TMDL. Indicate laboratory that analyzed samples Unknown Yes 🔀 No Were any biological or fish surveys completed? Yes 🔀 No Could you provide this data to the DEP? Yes 🕅 No Is a copy of the data attached? Treatment System Design Information and Criteria Who or what firm completed project design? (Include name, address, phone, email and contact person, if available): Daniel R. Helfrich, P.E. PADEP BAMR Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17101 717-783-5642, email: dhelfrich@state.pa.us Are digital photographs of the site before, during and/or after construction available? Yes No Was there a Specific Restoration or Treatment Goal for this treatment system? If yes, please describe the goal: Treatment was part of the Bond Forfeiture reclamation requirements. No specific goal, other than to increase pH and Alkalinity, & decrease metals loading to help restore Middle Branch Big Run. What is the Design Flow Rate? 190 gpm Other design criteria (retention time, acidity loading or removal rate, metals loading or removal rate, alkalinity generation rate, etc.) Joe Schueck Design - LUP 15 hour detention; VFR as large as practical; Aerobic Weltand & Limestone Bed in existing footprint; Rock Ditch to outlet into kill zone. Does the treatment system take all of the flow or is some of the flow bypassed? All of the flow that could be intercepted is being treated, however during construction BAMR had a difficult time keeping water in the raw AMD impoundment. Spent \$300,000 extra to install clay cutoff trench to keep water in system. AMD still getting under liner in VFR so liner cut in several places to relieve pressure and prevent liner failure.

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Plans and Specifications:		
As-Bid Project Drawings and Technical Specifications		
Is this information available electronically?		ĭYes ☐ No
Could you provide the DEP a copy of the plan?		∑Yes ∐ No
Is a copy attached?		\square Yes $igtiesize$ No
As-Built Drawings		
Is this information available electronically?		∑Yes <u> </u> No
Could you provide the DEP a copy of the plan?		∐Yes ∐ No
Is a copy attached?		∐Yes ⊠ No
G		
Construction and Project Funding Information What year was the project constructed?		,
When (specific date) did project construction begin?	06/30/2003	
When (specific date) was project construction complete	ed? 05/01/2004	
Who was the Construction Contractor? (Name, Address	s. Phone, email, con	tact person)
Earthmovers Unlimited, Inc., P.O. Box 187, Kylertown, PA	16847, 814-345-601	<u>10, John Niébauer, Jr.,</u>
President		
		<u> </u>
When (specific date) did the treatment system go on-lin	ne? <u>Unknown</u>	
Primary Funding Partners, and		
Source	True or false	Amount
Title IV, Appalachian Clean Streams	<u>False</u>	<u>0</u>
PADEP Growing Greener	<u>True</u>	\$1,070,086.21
10% AMD Set Aside Funds	<u>False</u>	<u>0</u>
EPA Section 319	<u>False</u>	<u>0</u>
OSM Watershed Cooperative Assistance Program	<u>False</u>	<u>0</u>
NRCS	False	0
EPA Watershed Protection	False	<u>0</u>
USCOE	False	<u>0</u>
	False	<u>0</u>
University	False	0
Private/Foundation	1 4100	<u>-</u>
How or by whom was treatment system construction for table?	unded or other fund	ing not included in the
Source		Amount
APPRO. 290 - BF GENERAL OPERATIONS		\$182,025.33
APPRO. 695 - BF RESTRICTED BOND		\$278,435.79
	•	
Post Construction Operation, Monitoring and Main	ntenance	□ •• □ ••
Is there a Sampling and Monitoring Plan?		Yes ∐ No
Is the plan available electronically?		Yes ∐ No
Is a copy of the plan attached?		☐Yes ⊠ No
Is treatment system currently being sampled and moni	tored?	Yes ∐ No
If so, by whom? Beech Creek Watershed Association	<u>, & PADEP BAMR</u>	Staff
Approximately how many hours per year are spent do	ing O,M&M for this	s system? <u>100 hours</u>
applially (MAG)		

Publicly Funded Mine Drainage Treatment or Abatement Project Inform Where are samples being analyzed? (Name, Address, Phone, email, contact person PA DEP Labs	ation Sheet
If DEP Lab is being used, what is the project ID and the Sample Information Systemonitoring point IDs?	em (SIS)
BF438: D-1, LUP1, SPOUT, VFR1, VFR2, VFROUT, AWOUT, RDOUT, BY-1	
Is there an Operation and Maintenance Plan?	⊠Yes □ No
Is the plan available electronically?	⊠Yes □ No
Could you provide the DEP a copy of this information?	Yes No
Is a copy of the information attached?	∐Yes ⊠ No
Comments on the treatment system: System continues to produce net alkaline water.	· · · · · · · · · · · · · · · · · · ·
Post- Construction Discharge Flow and Monitoring Data	
Is the data available electronically?	⊠Yes ☐ No
In what format? Microsoft Excel Access Database Other(specify) Indicate how flow was measured: Rectangluar weir	<u> </u>
Could you provide the DEP a copy of this information?	Yes No
Is a copy of the information attached?	☐Yes 🔯 No
Post-Construction Receiving Stream Flow and Monitoring Data	
Is the data available electronically?	☐Yes ⊠ No
In what format? Microsoft Excel Access Database Other(specify)	
Indicate how flow was measured: Post-construction receiving stream (Middle Branch	Big Run) flow
not measured that I know of.	☐Yes ⊠ No
Could you provide the DEP a copy of this information?	Yes No
Is a copy of the information attached? Were any biological or fish surveys that were completed on the receiving stream?	
Treatment System Maintenance and/or Rehabilitation Has rehabilitation work been performed at the site?	⊠Yes □ No
True(yes) or false(no): No	
If yes, please list the rehabilitation activity. LUP pipes cleaned by BD crew.	·
If yes, please list the date of rehabilitation. 12/14/2006	
If yes, please list the rehabilitation cost. <u>BD Crew - Contact Dean Baker</u>	
What routine or non-routine maintenance issues have arisen since system was put	online?
Flushing pipes, and routine water monitoring. How was maintenance work funded?	
Bond Forfieture funds, Also Cambria Office staff.	
What routine or non-routine maintenance is currently needed or anticipated in the Flushing pipes, clearing vegetation and routine water monitoring and sampling.	next 1-3 years?
Other Comments	
Link to system information:	
\lepencofs02\BAMR\Active Project WS\HBG CO\Dan Helfrichs Share\DesignProjects	Treatment Eval
uations	

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

Person(s) Completing this Form (N	Name, Address, Phone, email, Date Completed):
Daniel R. Helfrich, P.E.	
	Office Building, 400 Market Street, Harrisburg, PA 17101
771-783-5646	
dhelfrich@state.pa.us	Form completed 01/09/2009
	mpany or organization that should be contacted for ment system or the information requested in this form? ail, etc):