

Publicly Funded Mine Discharge Treatment or Abatement Project Information
RICHARDS TREATMENT SYSTEMS

	1	2A	2B
General Project Information			
Project Name & #	Richards 1 PA-129	Richards 2A PA-130	Richards 2B PA-131
Location: Municipality County	Cherryhill Township Indiana	Cherryhill Township Indiana	Cherryhill Township Indiana
Watershed:	Two Lick Creek, part of the Blacklick Creek	Two Lick Creek, part of the Blacklick Creek	Two Lick Creek, part of the Blacklick Creek
USGS Quad	Commodore	Commodore	Commodore
Lat	40.663611	40.663333	40.663056
Long	-78.981667	-78.980556	-78.979444
Contact Info			
Contact Organization:	Blacklick Creek Watershed Association	Blacklick Creek Watershed Association	Blacklick Creek Watershed Association
Contact Person:	Bob Eppley	Bob Eppley	Bob Eppley
Contact Address:	52 Oakland Ave., Homer City, PA 15748	52 Oakland Ave., Homer City, PA 15748	52 Oakland Ave., Homer City, PA 15748
Contact Phone Number:	412-289-2857	412-289-2857	412-289-2857
Contact email:	eppldr@msn.com	eppldr@msn.com	eppldr@msn.com
Organization Currently Responsible For Project Operations, Monitoring and Maintenance	Same as above, weekly inspection and pH measurement	Same as above, weekly inspection and pH measurement	Same as above, weekly inspection and pH measurement
Site Information			
Who owns the property the project is constructed upon?	Dennis Richards	Dennis Richards	Dennis Richards
Driving Directions to the Project Site:	From Clymer take Rte. 403 east 2 miles. Site is on the left.	From Clymer take Rte. 403 east 2 miles. Site is on the left.	From Clymer take Rte. 403 east 2 miles. Site is on the left.
Special Instructions for entry to the site (gates, keys, notifications, or permissions, etc.)?	None required	From Clymer take Rte. 403 east 2 miles. Site is on the left.	From Clymer take Rte. 403 east 2 miles. Site is on the left.
Is there a perpetual access agreement for monitoring and O&M? Y/N	Yes	Yes	Yes

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Is the site accessible by 2WD vehicle? Y/N	Yes	Yes	Yes
Was the project completed as part of an overall watershed restoration plan? Y/N	Yes	Yes	Yes
Is the plan available electronically?	No	No	No
Could you provide the DEP a copy of the plan?	DEP has a copy of it.	DEP has a copy of it.	DEP has a copy of it.
Is a copy of the plan attached? Y/N	No	No	No
Project Description:	Sulfate reducing bacteria passive treatment system	Sulfate reducing bacteria passive treatment system	Sulfate reducing bacteria passive treatment system
Pre-Construction Discharge Flow & Monitoring Data			
Is data available electronically? Y/N	No	Yes	Yes
In what format?	?	?	?
Indicate how flow was measured?	?	?	?
Laboratory used or field kits:	?	?	?
Could you provide this data to the DEP? Y/N	No	No	No
Is a copy of the data attached? Y/N	No	No	No
Pre-Construction Receiving Stream Flow & Monitoring Data			
Is data available electronically? Y/N	The DEP conducted limited monitoring	The DEP conducted limited monitoring	The DEP conducted limited monitoring
In What format?	?	?	?
Indicate how flow was measured:	?	?	?
Indicate laboratory that analyzed samples (or whether field kits were used):	?	?	?
Were any biological or fish surveys completed? Y/N	The DEP conducted a survey	The DEP conducted a survey	The DEP conducted a survey

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Could you provide this data to the DEP? Y/N	No	No	No
Is a copy of the data attached? Y/N	No	No	No
Treatment System Design Info & Criteria			
Who or what firm completed project design? <div> <div>Name</div> <div>VAPCO Engineering</div> <div>Address</div> <div>Punxsutaney, PA</div> <div>Phone</div> <div>814-938-3700</div> <div>Email</div> <div>?</div> <div>Contact person</div> <div>Jim Marino PE And R. Eppley, Ph.D</div> </div>	VAPCO Engineering Punxsutaney, PA 814-938-3700 ? Jim Marino PE And R. Eppley, Ph.D	VAPCO Engineering Punxsutaney, PA 814-938-3700 ? Jim Marino PE And R. Eppley, Ph.D	
Are digital photographs of the site before, during and/or after construction available? Y/N	Yes	Yes	Yes
Was there a Specific Restoration or Treatment Goal for the treatment system? Y/N	Yes	Yes	Yes
If yes, please describe the goal:	95% reduction of parameter	95% reduction of parameter	95% reduction of parameter
What is the Design Flow Rate?	30 gpm	60 gpm	60 gpm
Other design criteria (retention time, acidity loading or removal rate, metals loading or removal rate, alkalinity generation rate, etc.)	System sizes were limited by land available	System sizes were limited by land available	System sizes were limited by land available
Does the treatment system take all of the flow or is some of the flow bypassed?	During high flows only part of the discharge is treated	During high flows only part of the discharge is treated	During high flows only part of the discharge is treated
Plans and Specifications:			
As-Bid Project Drawings and Technical Specifications			
Is the information available electronically? Y/N	Yes, VAPCO Engineering	Yes, VAPCO Engineering	Yes, VAPCO Engineering

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	Could you provide the DEP a copy of the plan? Y/N	No	No	No
	Is a copy attached? Y/N	No	No	No
As-Built Drawings				
	Is the information available electronically? Y/N	No	No	No
	Could you provide the DEP a copy of the plan? Y/N	No	No	No
	Is a copy attached? Y/N	No	No	No
Construction and Project Funding Information				
What year was the project constructed?		1999	2003	2003
When (specific date) did project construction begin?		July, 1999	June, 2003	June, 2003
When (specific date) was project construction completed?		August, 1999	August, 2003	August, 2003
Who was the construction contractor? (Name, address, Phone, email, contact person)		?	?	?
When (specific date) did the treatment system go on-line?		August, 1999	September, 2003	September, 2003
Title IV, Appalachian Clean Streams		\$00.00	\$00.00	\$00.00
PADEP Growing Greener		\$00.00	\$125,000.00	\$125,000.00
10% AMD Set Aside Funds		\$00.00	\$00.00	\$00.00
EPA Section 319		\$00.00	\$00.00	\$00.00
OSM Watershed Cooperative Assistance Program		\$00.00	\$00.00	\$00.00
NRCS		\$00.00	\$00.00	\$00.00

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EPA Watershed Protection	\$00.00	\$00.00	\$00.00
USCOE	\$00.00	\$00.00	\$00.00
University	\$00.00	\$00.00	\$00.00
Private/Foundation	\$00.00	\$00.00	\$00.00
How or by whom was treatment system construction funded or other funding not included in the table. (Source, Amount)	Reclamation in lieu of penalty, \$43,500.00 Pa Fish and Boat Commission		
Post Construction Operation, Monitoring and Maintenance			
Is there a sampling and monitoring plan? Y/N	BCWA weekly inspection and Stream Team sampling	BCWA weekly inspection and Stream Team sampling	BCWA weekly inspection and Stream Team sampling
Is a copy of the plan available electronically? Y/N	Standard BCWA grant plan	Standard BCWA grant plan	Standard BCWA grant plan
Is a copy of the plan attached? Y/N	No	No	No
Is treatment system currently being sampled and monitored? Y/N	Yes	Yes	Yes
If so, by whom?	Stream Team/ BCWA	Stream Team/ BCWA	Stream Team/ BCWA
Approximately how many hours per year are spent doing O,M&M for this system?	?	?	?
Where are the samples being analyzed? (Name, Address, Phone, email, contact person)	DEP Lab	DEP Lab	DEP Lab
If DEP Lab is being used, what is the project ID and the Sample Information System (SIS) monitoring point IDs?	????????????		
Is there an Operation and Maintenance Plan? Y/N	Standard BCWA grant plan	Standard BCWA grant plan	Standard BCWA grant plan
Is the plan available electronically? Y/N	No	No	No

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Could you provide the DEP a copy of this information? Y/N	No	No	No
Is a copy of the information attached? Y/N	No	No	No
Comments on the treatment system:			
Post-Construction Discharge Flow and Monitoring Data			
Is the data available electronically? Y/N	Yes	Yes	Yes
In what format?	Excel	Excel	Excel
Indicate how the flow was measured:	Bucket and stopwatch	Bucket and stopwatch	Bucket and stopwatch
Could you provide the DEP a copy of this information? Y/N	Yes	Yes	Yes
Is a copy of the information attached? Y/N	No	No	No
Post-Construction Receiving Stream Flow and Monitoring Data			
Is the data available electronically? Y/N	No	No	No
In what format?	No	No	No
Indicate how the flow was measured:	No	No	No
Could you provide the DEP a copy of this information? Y/N	No	No	No
Is a copy of the information attached? Y/N	No	No	No
Were any biological or fish surveys that were completed on the receiving stream? Y/N	Unknown	Unknown	Unknown
Treatment System Maintenance and /or Rehabilitation			

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Has rehabilitation work been performed at the site? Y/N	Yes	Yes	Yes
If yes, please list the rehabilitation activity.	Rebuilt	Repaired	Repaired
If yes, please list the date rehabilitation	June, 2002	August, 2004	August, 2004
If yes, please list the rehab cost.	BCWA	\$2,500	\$2,500
What routine or non-routine maintenance issues have arisen since system was put online?	?	?	?
How was maintenance work funded?	BCWA	BCWA	BCWA
What maintenance is needed or anticipated in the next 1-3 years?	?	?	?
Other Comments			
Person(s) Completing form: Name Address Phone Email Date Completed	Dennis Remy 5320 Ferguson Road, Indiana, PA 15701 724-349-8597 Dennir3@comcast.net	Dennis Remy 5320 Ferguson Road, Indiana, PA 15701 724-349-8597 Dennir3@comcast.net	Dennis Remy 5320 Ferguson Road, Indiana, PA 15701 724-349-8597 Dennir3@comcast.net
Any other contact?	Bob Eppley	Bob Eppley	Bob Eppley