

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

General Project Information

Project Name and or No.: SLIPPERY ROCK CREEK 87/88 FERRIS EAST PA-108
Location: Municipality and County: VENANGO TWP. BUTLER CO.
Watershed: SLIPPERY ROCK CREEK
USGS Quadrangle: HILLIARDS
Latitude and Longitude: 41.10222222 -79.853611111

Contact Information

Contact Organization: PADEP KNOX DMO
Contact Person: ROGER D. BOWMAN, PE
Contact Address: P.O. BOX 669 WHITE MEMORIAL BUILDING
KNOX
PA
16232
Contact Telephone Number: 814797-1191
Contact Email: roboman@state.pa.us

Organization Currently Responsible For Project Operations, Monitoring and Maintenance

Is this organization different from Contact Organization? (NONE)
Organization Name: _____
Organization Contact Name: _____
Organization Contact Address: _____
Organization Telephone Number: _____
Organization Email: _____

Site Information

Who owns the property the project is constructed upon?
PA GAME COMMISSION, c/o Dale Hockenberry, State Game lands No. 95

Driving Directions to the Project Site (from an easily identifiable reference point):
The project is situated 1 mile south of the SR4012/T-504 intersection on the east side of T-504
approximately 2500 feet east of T-504 on PA Game Commission State Game Lands No. 95.
The project is located on the north side of the main branch of Slippery Rock Creek.

Special instructions for entry to the site (gates, keys, notifications or permissions, etc.):
PA Game Commission and PA DEP-Knox DMO employees have keys to the entrance gate.

Is there a perpetual access agreement for monitoring and O&M? Yes or No
Is the site readily accessible (by 2WD vehicle)? Yes and No
Was project completed as part of an overall watershed restoration plan? Yes or No
Is the plan available electronically? Yes (parts)
Could you provide the DEP a copy of the plan? BAMR has it.
Is a copy of the plan attached? Yes or No

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

2 cell VFW

CELL 1: Lateral & Manifold piping system embedded in 131 tons of limestone aggregate then topped with 124 tons of compost mixed with 60 tons of limestone chips.

CELL 2: Lateral & Manifold piping system embedded in 900 tons of limestone aggregate.
Agri-Drain Inline Water Level Control Structure installed in Cell 2 embankment to control cell 2 pool elevation by stop logs.

Pre-Construction Discharge Flow and Monitoring Data

Is data available electronically? Yes or No

In what format? Microsoft Excel X Access Database ___ Other(specify) _____

Indicate how flow was measured: V-Notch Weir

Indicate laboratory that analyzed samples (or whether field kits were used) _____

PA DEP Lab

Could you provide this data to the DEP? Yes or No

Is a copy of the data attached? Yes or No

Pre-Construction Receiving Stream Flow and Monitoring Data

Is data available electronically? Yes and No

In what format? Microsoft Excel X Access Database ___ Other(specify) _____

Indicate how flow was measured: _____

Indicate laboratory that analyzed samples _____

PA DEP Lab

Were any biological or fish surveys completed? Yes or No

Could you provide this data to the DEP? Yes or No

Is a copy of the data attached? Yes or No

*****CAN BE PROVIDED BY SLIPPERY ROCK U. & PA FISH & BOAT/PA DEP*****

Treatment System Design Information and Criteria

Who or what firm completed project design? (Include name, address, phone, email and contact person, if available): PA DEP - Knox DMO Roger D. Bowman, PE

P.O. Box 669, White Memorial Building

Knox, PA 16232-0701

Phone: (814) 797-1191 email: robowman@state.pa.us

Are digital photographs of the site before, during and/or after construction available? Yes or No

Was there a Specific Restoration or Treatment Goal for this treatment system? Yes or No

If yes, please describe the goal:

What is the Design Flow Rate? 60 gpm

Other design criteria (retention time, acidity loading or removal rate, metals loading or removal rate, alkalinity generation rate, etc.) Hedin - ALD design criteria

Does the treatment system take all of the flow or is some of the flow bypassed?

Takes all flow.

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Plans and Specifications:

As-Bid Project Drawings and Technical Specifications

Is this information available electronically? Yes and No
 Could you provide the DEP a copy of the plan? Yes or No
 Is a copy attached? Yes or No

As-Built Drawings

Is this information available electronically? Yes or No
 Could you provide the DEP a copy of the plan? Yes or No
 Is a copy attached? Yes or No

Construction and Project Funding Information

What year was the project constructed? 1997
 When (specific date) did project construction begin? August 1, 1997
 When (specific date) was project construction completed? September 5, 1997
 Who was the Construction Contractor? (Name, Address, Phone, email, contact person)
Puryear Trucking & Excavation, Inc. 254 Harrisville Road West Sunbury, PA 16061
Joseph Puryear (724) 637-3872
 When (specific date) did the treatment system go on-line? September 5, 1997

Primary Funding Partners, and funding provided:

Source	True or false	Amount
Title IV, Appalachian Clean Streams	False	\$.00
PADEP Growing Greener	False	\$.00
10% AMD Set Aside Funds	False	\$.00
EPA Section 319	False	\$.00
OSM Watershed Cooperative Assistance Program	False	\$.00
NRCS	False	\$.00
EPA Watershed Protection **(EPA 104(b)(3))**	True	\$ 66,259.12
USCOE	False	\$.00
University	False	\$.00
Private/Foundation	False	\$.00

How or by whom was treatment system construction funded or other funding not included in the table?

Source	Amount
	\$.00
	\$.00

Post Construction Operation, Monitoring and Maintenance

Is there a Sampling and Monitoring Plan? Yes or No
 Is the plan available electronically? Yes or No
 Is a copy of the plan attached? Yes or No
 Is treatment system currently being sampled and monitored? Yes or No
 If so, by whom? _____
 Approximately how many hours per year are spent doing O,M&M for this system? 0.00

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Where are samples being analyzed? (Name, Address, Phone, email, contact person)

PA DEP Lab

If DEP Lab is being used, what is the project ID and the Sample Information System (SIS) monitoring point IDs?

Project ID: SLIPPERY1

SIS Monitoring point IDs: SR87, SR88 (discharges) JP1 & JP2 (samples after treatment)

Is there an Operation and Maintenance Plan? Yes or No

Is the plan available electronically? Yes or No

Could you provide the DEP a copy of this information? Yes or No

Is a copy of the information attached? Yes or No

Comments on the treatment system: All Knox DMO maintenance and oversight of system stopped when the PA CMRS funding stopped in or about 2005.

Post- Construction Discharge Flow and Monitoring Data

Is the data available electronically? Yes or No

In what format? Microsoft Excel X Access Database ___ Other(specify) _____

Indicate how flow was measured: Bucket and Stopwatch

Could you provide the DEP a copy of this information? Yes or No

Is a copy of the information attached? Yes or No

Post-Construction Receiving Stream Flow and Monitoring Data

Is the data available electronically? Yes or No

In what format? Microsoft Excel X Access Database ___ Other(specify) _____

Indicate how flow was measured: measured only two (2) times by flow meter

Could you provide the DEP a copy of this information? Yes or No

Is a copy of the information attached? Yes or No

Were any biological or fish surveys that were completed on the receiving stream? Yes or No

Treatment System Maintenance and/or Rehabilitation

Has rehabilitation work been performed at the site? Yes or No

True(yes) or false(no): False

If yes, please list the rehabilitation activity. _____

If yes, please list the date of rehabilitation. 0

If yes, please list the rehabilitation cost. \$.00

What routine or non-routine maintenance issues have arisen since system was put online?

Routine flushing while PA CMRS funding for work was performed by the Knox DMO. Since then, Cell 1 VFW is clogged and a cross over pipe to Cell 2 needs installed.

How was maintenance work funded?

PA Comprehensive Mine Reclamation Strategy (PA CMRS) under Mr. Ernie Giovanitti and Bobby Agnew.

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What routine or non-routine maintenance is currently needed or anticipated in the next 1-3 years?
Cell 1 complost replacement, piping system thoroughly flushed or replaced in Cell 1, overflow pipe from Cell 1 to Cell2, thorough flushing of Cell 2, Stop logs inInline Water Level Control Structure need checked and possibly replaced.

Other Comments

Person(s) Completing this Form (Name, Address, Phone, email, Date Completed):

Roger D. Bowman, PE c/o PA DEP-Knox DMO

P.O. Box 669, White Memorial Building, 310 Best Avenue

Knox, PA 16232-0669 Phone: (814) 797-1191 email: robowman@state.pa.us

Date Completed: February 10, 2009

Is there any other person, company or organization that should be contacted for information about this treatment system or the information requested in this form?

(Include Name, Address, Phone, email, etc):

Timothy Gillen, PG c/o PA DEP-Knox DMO

P.O. Box 669, White Memorial Building, 310 Best Avenue

Knox, PA 16232-0669 Phone: (814) 797-1191 email: tgillen@state.pa.us

PA-108

COMMONWEALTH OF PENNSYLVANIA
Department of Environmental Protection
District Mining Operations
February 10, 2009

Knox District Office

814-797-1191

SUBJECT: Slippery Rock Creek
SR87/SR88 Ferris East
PA-108
Venango Township
Butler County

TO: Eric Cavazza, P.E.
Mining Engineering Supervisor
Bureau of Abandoned Mine Reclamation
PA DEP, Cambria Office

FROM: Roger D. Bowman, P.E.
Mining Engineer
Knox Permitting Section



Attached are the project information sheets, design plan & mapping, and the water quality information relative to the SR87/SR88 Ferris East project completed under an EPA 104(b)(3) grant in 1997 by the Knox DMO. Please respond by e-mail or phone if you are in need of additional information. Project identifier is SLIPPERY1 with the DEP Lab on SIS.