

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

General Project Information

Project Name and or No.: SUGAR CREEK PA-075
Location: Municipality and County: BRADYS BEND TWP. ARMSTRONG CO.
Watershed: SUGAR CREEK
USGS Quadrangle: CHICORA
Latitude and Longitude: 40.984721999999998 -79.616944000000004

Contact Information

Contact Organization: PADEP BAMR
Contact Person: SCOTT HORRELL
Contact Address: 286 INDUSTRIAL PARK
EBENSBURG
PA
15931
Contact Telephone Number: 814472-1800
Contact Email: pmilavec@state.pa.us

Organization Currently Responsible For Project Operations, Monitoring and Maintenance

Is this organization different from Contact Organization? False
Organization Name: _____
Organization Contact Name: _____
Organization Contact Address: _____
Organization Telephone Number: 0
Organization Email: _____

Site Information

Who owns the property the project is constructed upon?
Dewey Family Trust, c/o Ned Dewey, 112 Trapelo Road, Lincoln, MA 01773, 781-259-1391
Bessemer and Lake Erie Railroad, P.O. Box 68, Jamison Lane, Monroeville, PA 15146, 412-829-6681.

Driving Directions to the Project Site (from an easily identifiable reference point):
From the town of East Brady in Clarion County, take State Route 68 across the Allegheny River into Armstrong County. From the county line follow SR 68 upstream along Sugar Creek approximately 3.4 miles. Traveling from this direction the project is to the left i.e. the south side of SR 68.

Special instructions for entry to the site (gates, keys, notifications or permissions, etc.):
Park along SR68. Access is gated and locked but access road has ford crossing of Sugar Creek. Site is only a short walk from SR 68 but Sugar Creek must be crossed.

Is there a perpetual access agreement for monitoring and O&M? (Don't Know)
Is the site readily accessible (by 2WD vehicle)? No
Was project completed as part of an overall watershed restoration plan? (Don't Know)
Is the plan available electronically? (Don't Know)
Could you provide the DEP a copy of the plan? (Don't Know)
Is a copy of the plan attached? No

Project Description (Describe the treatment system including each individual component):
Project addressed an alkaline discharge from a deep mine drift entry. Two 12" perforated PVC pipes were inserted side-by-side into the entry and the entry was sealed. The two mine seal pipes connect via solid pipe to a concrete distribution box. From the distribution box a 10" PVC pipe conveys the mine drainage to a long narrow treatment pond with approximate dimensions of 570' x85'. The initial section of the treatment pond where the mine drainage enters is a deep water sedimentation area approximately 240' long. The discharge from the sedimentation area filters through a limestone rip-rap dike across the full width of the pond. The discharge then enters an aerobic wetland area approximately 330' long which comprises the remainder of the treatment pond. The aerobic wetland area has 12" of mushroom compost substrate with

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minimal standing water. The aerobic wetland area is divided equally along its length by three more rip-rap limestone dikes to create four wetland cells. Final treated effluent from the system is discharged via a 10" PVC pipe through a water level control box and into a rip-rap channel leading to Sugar Creek.

Pre-Construction Discharge Flow and Monitoring Data

Is data available electronically? Yes
In what format? Microsoft Excel X Access Database Other (specify)
Indicate how flow was measured: Rectangular Weir
Indicate laboratory that analyzed samples (or whether field kits were used): DEP Lab
Could you provide this data to the DEP? Yes
Is a copy of the data attached? No

Pre-Construction Receiving Stream Flow and Monitoring Data

Is data available electronically? Maybe? Samples may have been taken pre-SIS or else individual samples were taken without established monitoring points.
In what format? Microsoft Excel Access Database Other(specify)
Indicate how flow was measured: Not Measured
Indicate laboratory that analyzed samples DEP Lab
Were any biological or fish surveys completed? Yes
Could you provide this data to the DEP? Yes
Is a copy of the data attached? No

Treatment System Design Information and Criteria

Who or what firm completed project design? (Include name, address, phone, email and contact person, if available):

DAN SAMMARCO
PADEP BAMR, CAMBRIA OFFICE
814-472-1800
dsammarco@state.pa.us

Are digital photographs of the site before, during and/or after construction available? Yes
Was there a Specific Restoration or Treatment Goal for this treatment system? (Don't Know)
If yes, please describe the goal:

What is the Design Flow Rate? (Don't Know)

Other design criteria (retention time, acidity loading or removal rate, metals loading or removal rate, alkalinity generation rate, etc.) (Don't Know)

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

Plans and Specifications

As-Bid Project Drawings and Technical Specifications
Is this information available electronically? Yes
Could you provide the DEP a copy of the plan? Yes
Is a copy attached? No
As-Built Drawings
Is this information available electronically? Yes
Could you provide the DEP a copy of the plan? Yes
Is a copy attached? No

Construction and Project Funding Information

What year was the project constructed? 2004
When (specific date) did project construction begin? Sept 10, 2002

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When (specific date) was project construction completed? Sept 10, 2003

Who was the Construction Contractor? (Name, Address, Phone, email, contact person):

Casselman Enterprises, Inc., 140 West Union Street, Somerset, PA 15501

When (specific date) did the treatment system go on-line? Sept 11, 2003

Primary Funding Partners, and funding provided:

Source	True or false	Amount
Title IV, Appalachian Clean Streams	True	\$660,020.00
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	False	\$.00
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? No

Is the plan available electronically? N/A

Is a copy of the plan attached? N/A

Is treatment system currently being sampled and monitored? About once a year.

If so, by whom? DEP

Approximately how many hours per year are spent doing O,M&M for this system? (Don't Know. Very little.)

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

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

Is there an Operation and Maintenance Plan? No

Is the plan available electronically? N/A

Could you provide the DEP a copy of this information? N/A

Is a copy of the information attached? N/A

Comments on the treatment system: _____

Post- Construction Discharge Flow and Monitoring Data

Is the data available electronically? Yes

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

Is a copy of the information attached? No

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Attachments

DEP Sample Information System (SIS) - Monitoring Points For Sugar Creek Project

03/20/2009

Project/Monitoring Points

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Project Unit: Abandoned Mine Reclamation
 Project ID: PA1937
 Project Name: Sugar Creek

State: PA County: Armstrong Municipality: Bradys Bend Twp

MP Alias/ID	Type	Latitude	Longitude	Elevation	Active	Inactive	Last Sampled	Location/Name
CR1/52082	DRLHO	40-59-10	079-39-11	950.00	02/24/1999			coal refuse sample
CR2/52083	DRLHO	40-59-10	079-39-15	950.00	02/24/1999			coal refuse sample
CR3/52084	DRLHO	40-59-06	079-39-31	950.00	02/24/1999			coal refuse sample
SC/47294	AMBIT	40-59-02	079-39-36	1,007.00	07/16/1998			Deep Mine Discharge into Sugar Creek
SC EPF/73789	MPTRM	40-59-05	079-39-24	1,018.00	09/17/2003			EFFLUENT OF TREATMENT POND
SC1/66491	AMBIT	40-59-04	079-39-27		11/08/2001			Wetland Area
SC2/66492	AMBIT	40-59-08	079-39-22		11/08/2001			Wetland Area
SCBR/74783	STRM	40-59-14	079-38-06	1,045.00	01/06/2004			SUGAR CREEK @ INTER. SR68 & COVE RUN ROAD
SCDS/74213	STRM	40-59-12	079-39-15		10/28/2003			SUGAR CREEK
SCR1/74784	STRM	41-05-46	079-49-27	900.00	01/06/2004			SUGAR CREEK @ ALLEG. RIVER AT BOAT ACCESS
SCUS/74212	STRM	40-58-59	079-39-45		10/28/2003			SUGAR CREEK
SLIDE/70967	MDSEP	40-59-02	079-39-30		01/14/2003			SLIDE AREA NEAR MINE DISCHARGE SC1
SP#1/47927	DMODS	40-59-04	079-39-32		08/06/1998			Sugar Creek
SPFP/74425	MPTRM	40-51-39	079-57-57	1,016.00	11/17/2003			EFFLUENT OF SED POND
YOUGH/74211	FDKWL	40-58-46	079-39-21		10/28/2003			SUGAR CREEK
YOUGH2/74447	FDKWL	40-58-45	079-39-22	1,410.00	11/19/2003			YOUGH NEW DRINKING WATER WELL