

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet
General Project Information

Project Name and or No.: Klondike Project, KL-1 treatment system PA-202
 Location: Municipality and County: Dean & Gallitzin Twps Cambria Co.
 Watershed: Little Laurel Run (Clearfield Creek)
 USGS Quadrangle: Ashville and Altoona
 Latitude and Longitude: 40.556 N 78.5069 W

Contact Information

Contact Organization: Clearfield Creek Watershed Association
 Contact Person: Arthur Rose
 Contact Address: 726 Edgewood Circle
 State College, PA 16801

 Contact Telephone Number: 814-865-7261
 Contact Email: awr1@psu.edu

Organization Currently Responsible For Project Operations, Monitoring and Maintenance

Is this organization different from Contact Organization? No
 Organization Name: Clearfield Creek Watershed Association
 Organization Contact Name: Earl Smithmyer
 Organization Contact Address: 316 Beldin Hollow Rd.
 Ashville, PA 16613

 Organization Telephone Number: 814-944-2383 (Smithmyer)
 Organization Email: gerald72@verizon.net (Gerald McMullen, Secretary)

Site Information

Who owns the property the project is constructed upon?
 Hite-Dodson family heirs, and Blair County Solid Waste Authority

Driving Directions to the Project Site (from an easily identifiable reference point):
 From Ashville, drive 3 miles east on PA 36, and enter through gate on N side of road; 1/4 mile to KL-1

Special instructions for entry to the site (gates, keys, notifications or permissions, etc.):
 Contact Earl Smithmyer, 814-944-2383, for key to gate.

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

Project Description (Describe the treatment system including each individual component):
 2 Fe-precipitation ponds (140 x 20, 130 x 30), Settling Pond (80 x 50), Vertical Flow pond (128 x 82, 2 ft limestone, 1 ft compost), Oxidation Pond (70 x 60), wetland (140 x 10)

Pre-Construction Discharge Flow and Monitoring Data

Is data available electronically? Yes No

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

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

Indicate how flow was measured: V-notch weir

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

Mahaffey Labs

Could you provide this data to the DEP? Yes No

Is a copy of the data attached? Yes No

Pre-Construction Receiving Stream Flow and Monitoring Data

Is data available electronically? Yes No

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

Indicate how flow was measured: Weir

Indicate laboratory that analyzed samples

Mahaffey Labs

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? Yes No

Treatment System Design Information and Criteria

Who or what firm completed project design? (Include name, address, phone, email and contact person, if available): U.S. Environmental Research Service

1520 Grant St, Altoona, PA

John Foreman, 814-943-6979

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? Yes No

If yes, please describe the goal: Remove Fe and Al acidity, restore Little Laurel Run

What is the Design Flow Rate? 15 gal/min

Other design criteria (retention time, acidity loading or removal rate, metals loading or removal rate, alkalinity generation rate, etc.) Acidity removal at 35 g/m2/d, > 16 hr retention time

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

Takes all of flow

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

Plans and Specifications:

As-Bid Project Drawings and Technical Specifications

Is this information available electronically? Yes No

Could you provide the DEP a copy of the plan? Yes No

Is a copy attached? Yes No

As-Built Drawings

Is this information available electronically? Yes No

Could you provide the DEP a copy of the plan? Yes No

Is a copy attached? Yes No

Construction and Project Funding Information

What year was the project constructed? 2007-8

When (specific date) did project construction begin? August 2007

When (specific date) was project construction completed? September 2008

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

Ligonier Construction,

When (specific date) did the treatment system go on-line? November 15, 2007

Primary Funding Partners, and funding provided:

Source	True or false	Amount
Title IV, Appalachian Clean Streams	<input checked="" type="checkbox"/>	<u>50,000</u>
PADEP Growing Greener	<input checked="" type="checkbox"/>	<u>6,427</u>
10% AMD Set Aside Funds	_____	_____
EPA Section 319	<input checked="" type="checkbox"/>	<u>178,940</u>
OSM Watershed Cooperative Assistance Program	_____	_____
NRCS	_____	_____
EPA Watershed Protection	_____	_____
USCOE	_____	_____
University	_____	_____
Private/Foundation	<input checked="" type="checkbox"/>	<u>10,000</u>

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

Source	Amount
<u>Funds above are 50% of total project that included KL-2</u>	<u>??</u>
<u>Not clear what this question wants</u>	_____
<u>Considerable in-kind contribution in addition to above</u>	_____

Post Construction Operation, Monitoring and Maintenance

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 monitored? Yes No

If so, by whom? Clearfield Creek Watershed Association (Arthur Rose)

Approximately how many hours per year are spent doing O,M&M for this system? 60

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

Mahaffey Labs, Curwensville, PA

Publicly Funded Mine Drainage Treatment or Abatement Project Information Sheet

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? 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: Accumulated 1 in. of Fe ppt. over winter-spring, and effectiveness decreased, so several modifications made - see Final Report to DEP

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: Inflow weir
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: Weirs
Could you provide the DEP a copy of this information? Yes No
Is a copy of the information attached? Yes No
Were any biological or fish surveys that were completed on the receiving stream? Yes No

Treatment System Maintenance and/or Rehabilitation

Has rehabilitation work been performed at the site? Yes No
True(yes) or false(no): x

If yes, please list the rehabilitation activity. Removal of Fe ppt., added ponds, increased relief on VFP outflow, attempt to install inflow filter, added compost, testing capture with Geoweb (see Report).

If yes, please list the date of rehabilitation. Summer 2008

If yes, please list the rehabilitation cost. \$12,145 plus >100 hrs volunteer labor

What routine or non-routine maintenance issues have arisen since system was put online?
Accumulation of Fe ppt.

How was maintenance work funded?

Added ponds by \$12,145 grant from Quick Response Fund, rest by residual funds and volunteers

What routine or non-routine maintenance is currently needed or anticipated in the next 1-3 years?
Continuing evaluation of Fe precipitation on compost.

Other Comments

CD of Final Report, monitoring data, Monitoring Plan and drawings available from Joe Allison and DEP-EPA office in Harrisburg. Project was bid with KL-2 system and stream restoration; funds above are half of total project cost, after deduction of stream restoration cost of \$93,611.

Person(s) Completing this Form (Name, Address, Phone, email, Date Completed):
Arthur W. Rose

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726 Edgewood Circle, State College, PA 16801, 814-865-7261, awr1@psu.edu

12/7/08

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):

Joe Allison or Malcolm Crittenden, Cambria Office.
