

**KELLER ENGINEERS**

**AMD  
ABATEMENT REPORT**

**FOR**

**FOXHEAD INDUSTRIAL PARK**

**PASSIVE ACID MINE DRAINAGE  
TREATMENT SYSTEM**

**IN**

**FOX TOWNSHIP;  
ELK COUNTY, PENNSYLVANIA**

**PROJECT NUMBER 1515-1  
NOVEMBER 2005**

**KELLER ENGINEERS, INC.**

420 Allegheny Street  
Post Office Box 61  
Hollidaysburg, PA 16648  
Phone: (814) 696-7430  
Fax: (814) 696-0150

## TABLE OF CONTENTS

## PROJECT DESCRIPTION

## LOCATION MAP

## BACKGROUND WATER QUALITY SAMPLES

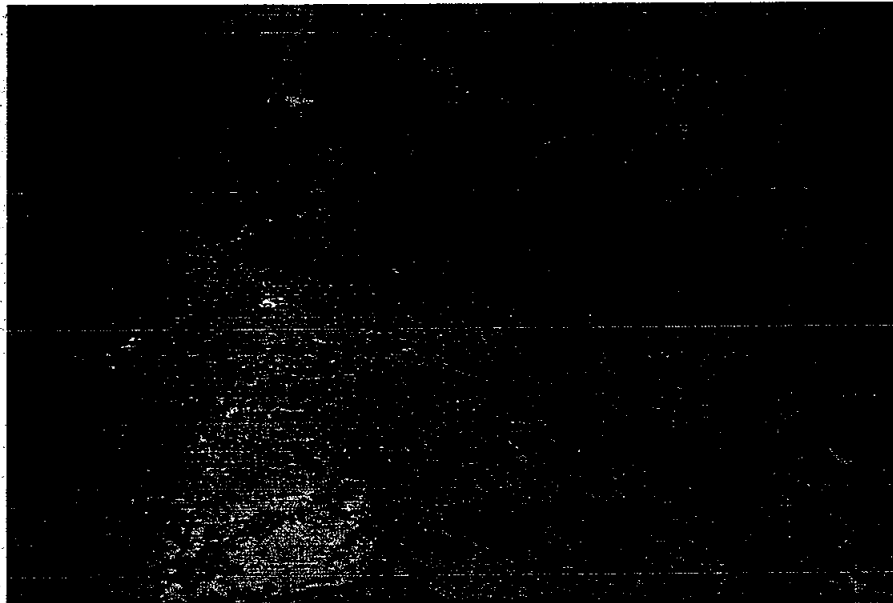
## PASSIVE AMD TREATMENT SYSTEM DESIGN

# ENVIRONMENTAL GOOD SAMARITAN PROJECT PROPOSAL

## **PROJECT DESCRIPTION**

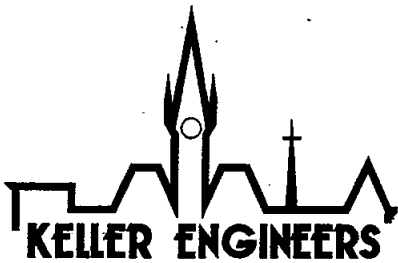
## PROJECT DESCRIPTION

Two small acid mine discharges flow from the hillside on the southern end of the property. The flows are discharges from abandoned deep mine workings on the Lower Kittanning coal seam. While flow of the discharges is relatively small the quality of the discharges does slightly impact the receiving stream, Beaver Creek. The poor quality discharges have a greater impact on the habitat immediately downstream of the discharges. An approximate 0.32-acre barren seep zone has been created where the discharges flow overland. This barren zone supports neither vegetation nor aquatic life, see photo below.

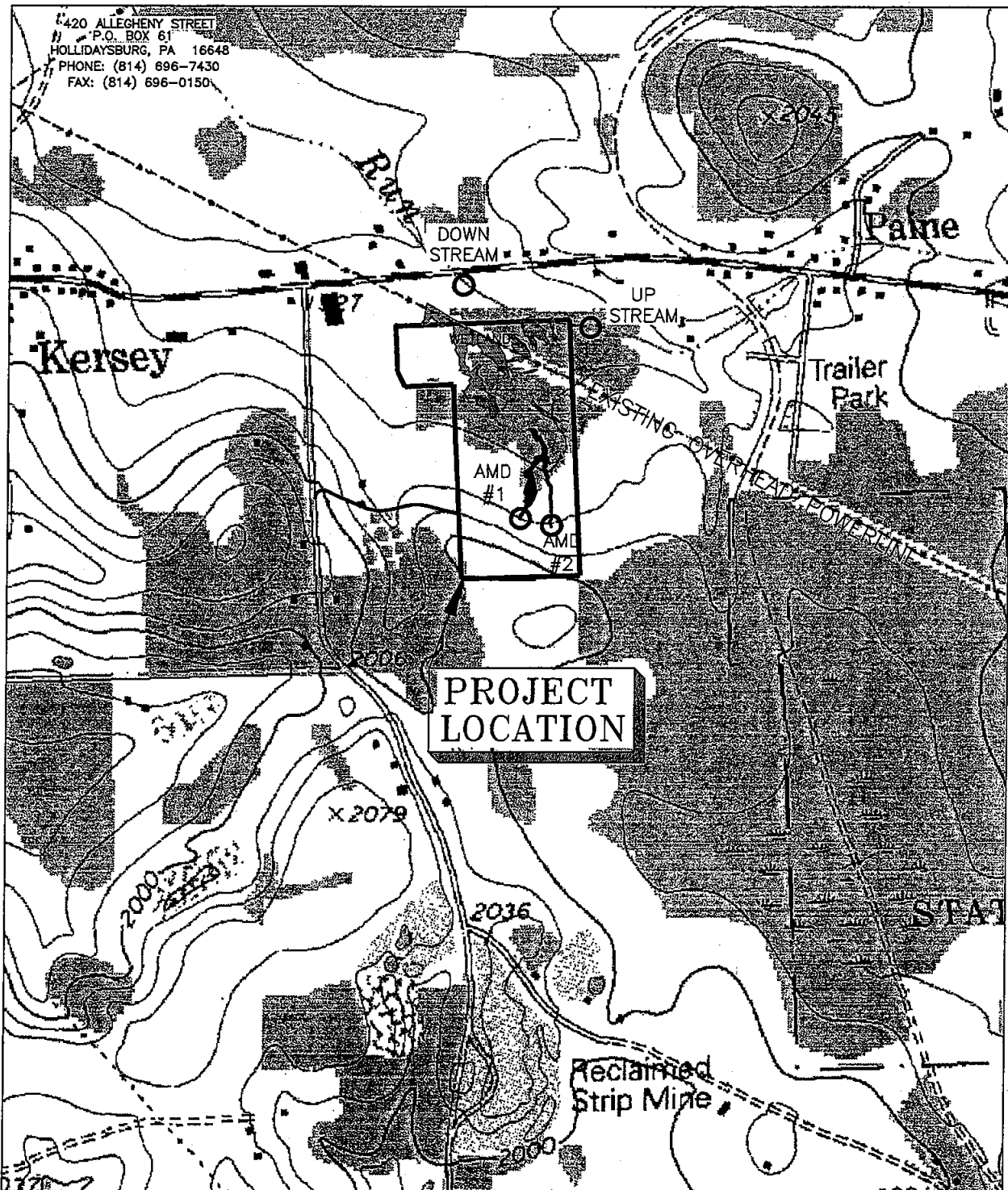


The overall plans for the property involve the development of an industrial park. The development will be Phase II of Fox Township's adjacent existing Foxhead Industrial Park. The owner/developer, Fox Township, wishes to enhance the environment within the industrial park in order to offer potential tenants a more appealing and desirable development site. Fox Township is willing to address this AMD degradation through the construction of a passive treatment system. The construction of the proposed passive treatment system has been incorporated into the overall park design. The discharges will be collected by small settling ponds, which will then overflow into a series of wetland cells. These treatment components will be constructed along the park's interior access roadway. To assure that Fox Township will be responsible for the long-term maintenance of the system, the components will be located within the dedicated right-of-way for the township roadway.

## LOCATION MAP



# LOCATION MAP



PASSIVE AMD TREATMENT PROPOSAL  
FOXHEAD INDUSTRIAL PARK — PHASE II  
FOX TOWNSHIP; ELK COUNTY

DATE: 04/01/05  
1" = 1,000'

KERSEY, PA USGS QUADRANGLE

## **BACKGROUND WATER QUALITY SAMPLES**

FOXHEAD INDUSTRIAL PARK - AMD PASSIVE TREATMENT PROJECT

SAMPLE AMD 1

DATE	flow gpm	pH field	pH lab	ALK mg/L	ACID mg/L	FE mg/L	MN mg/L	AL mg/L	SO4 mg/L	TSS	T	cond- uctivity	DO at source	DO down- stream
*03/25/03	32	3.4		0	91	5.01	1.78	6.69	147.5	<3				
*06/10/03	15	2.9		0	176.6	10.6	3.42	11.8	286	4				
*10/10/03	20	2.9		0	235.4	19.1	4.58	16	378.8	<3				
*12/18/03	8.5	3		0	269	27.1	6.01	20.1	316.7	10				
*03/09/04	27	3.4		0	66.6	3.98	1.74	4.59	136	<3				
12/30/04	6	3	3.14	0 ND	185.92	16.24	4.63	9.54	538	4	3	958	3.26	13.3
1/27/05	9	3.3	3.19	ND	128.31	9.67	3.97	5.93	658.7	12	2	880	8.01	14.88

SAMPLE AMD 2

12/30/04	1.5	4.1	4.1	0 ND	27.72	0.56	1.47	0.76	39.2	8	2	135	7.4	12.7
1/27/05	frozen	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

BEAVER RUN - UPSTREAM

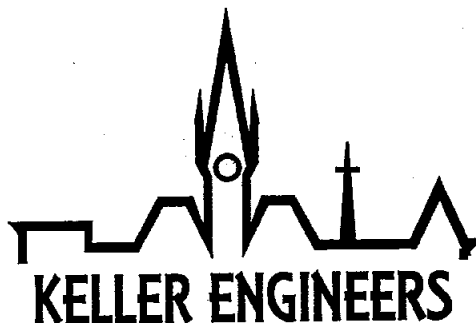
12/30/04	165	7.8	7.74	59.34	-48.11	0.33	0.27	59.34	39.1	4	4	245	13.4	
1/27/05	150	6.8	6.73	28.21	-10.14	0.33	0.26	<0.04	16.3	6	5	146	14.9	

BEAVER RUN - DOWNSTREAM

12/30/04	180	7	7.02	51.62	-29.3	0.78	0.42	0.28	59.1	4	3	262	13.4	
1/27/05	180	6.6	6.75	30.57	-14.63	0.75	0.45	0.26	28.2	8	1	205	14.9	

\* sample data provided by DEP Knox District Mining Office  
remaining samples collected and analyzed by G & C Coal Analysis Lab, Inc.

## PASSIVE AMD TREATMENT SYSTEM DESIGN



## INTRODUCTION

The passive system proposed for this site includes an initial 630 ton successive alkalinity productions system (SAPS) to be constructed at the start of the system. This mass of limestone is needed to obtain a 15 hour retention time. This will be followed by a settling pond, which will then flow through two constructed wetlands. The system will outlet into the final stormwater detention pond before discharging to the receiving stream, Beaver Creek.

## LONG-TERM MONITORING:

The system will be inspected quarterly for accumulated sediment and debris and to determine that the drainage/piping system is operating properly. Repairs will be made as needed.

The initial effectiveness of the facilities will be evaluated through quarterly sampling of the final discharge from system as well as discharges from each individual component for the first two(2) years after the completion of construction. After this, sampling of the final discharge will be made once annually. Should the sample results reveal that the AMD components are no longer being effectively treated, appropriate repairs, which can include replacing limestone and/or cleaning ponds or wetland cells to remove accumulated precipitates.

## DESIGN

The constructed wetlands were sized based on the known quality and volume of the mine discharges, by utilizing the collected water sample data, see BACKGROUND WATER QUALITY SAMPLES. This method calculates the loading rate in grams/ day for each of the chemical components of acid mine drainage. This loading rate is then used to calculate a size of wetland needed.

Loading Rate in grams/day; concentration in mg/liter; flow in gal/min

LOADING RATE= flow gal/minute x concentration mg/l x 5.45 x 0.0022(conversion factors)  
(from BACKGROUND WATER QUALITY SAMPLES use AMD 1, 03/25/03 sample, highest rate of flow)

$$FE = 32 \times 5.01 \times 5.45 \times 0.0022 = 1.92 \text{ lb/day}$$

$$MN = 32 \times 1.78 \times 5.45 \times 0.0022 = 0.68 \text{ lb/day}$$

$$\text{Acidity} = 32 \times 91 \times 5.45 \times 0.0022 = 34.98 \text{ lb/day}$$

Size of wetland based on loading rate; sized to treat the maximum flow, concentration and loads, using the Table1, Bureau of Mines AML sizing criteria from reference #2.

$$\text{FE Loading rate lb/day} = \text{acres} = 1.92/180 = 0.011 \text{ acres}$$

$$180\text{lb/ac/day}$$

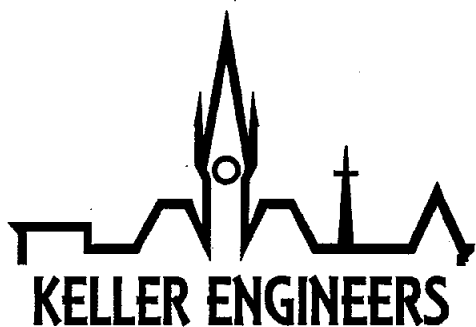
$$\text{MN Loading rate lb/day} = \text{acres} = 0.68/180 = 0.075 \text{ acres}$$

$$9\text{lb/ac/day}$$

$$\text{Acidity Loading rate lb/day} = \text{acres} = 0.58 \text{ acres}$$

$$60\text{lb/ac/day}$$

$$\text{total wetland area needed} = \boxed{0.67 \text{ acres}}$$

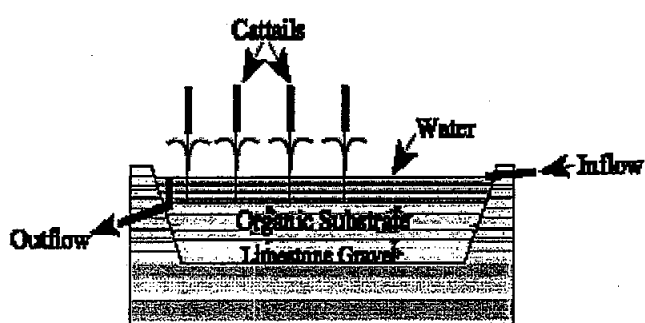


SUBJECT AMD DESIGN PAGE 2 of 3

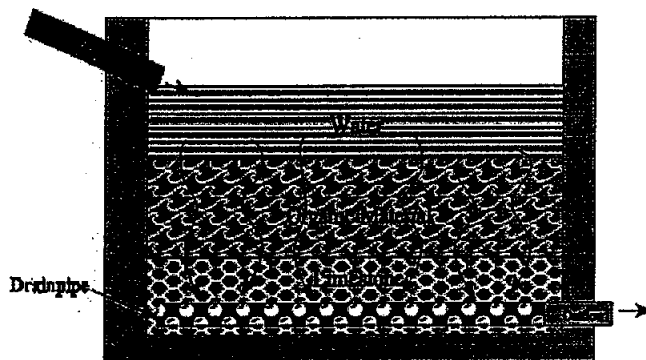
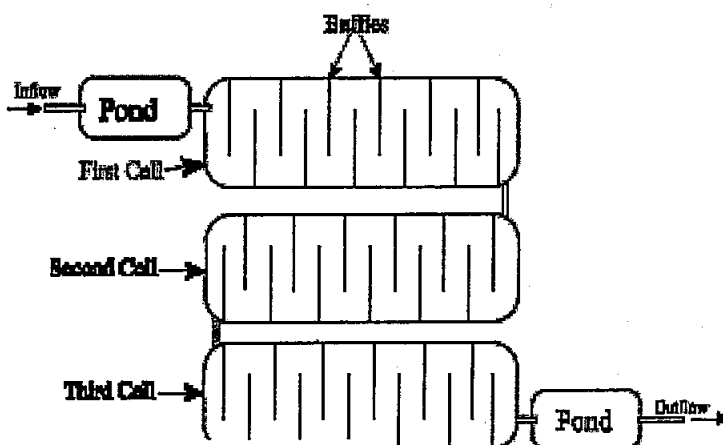
FOXHEAD INDUSTRIAL PARK - PHASE II PROJECT NO. 1515-1

BY TLK CKD. BY PEK DATE 04/05/05 REV. 11/02/05

These facilities will be constructed following the standards provided in the references cited below. Additional treatment will be provided by over-excavating the initial in-flow cell of the stormwater pond and constructing with a similar substrate as provided in the constructed wetlands - a layer of organic soil underlain by limestone. The passive AMD treatment system, containing constructed wetland cells and stilling basins will create 0.58 acres of wetland. The stormwater basin will provide an additional 0.41 acres of constructed wetland, with the total constructed wetlands in the passive AMD system equaling 0.99 acres. Construction will follow the typical details shown on the following sketches:

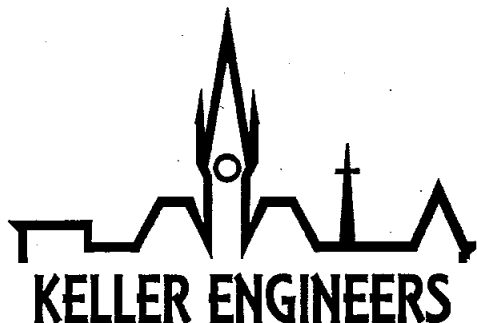


CONSTRUCTED WETLAND SCHEMATIC



SUCCESSIVE ALKALINE PRODUCING SYSTEM, SAPS, SCHEMATIC

Reference # 3



SUBJECT AMD DESIGN PAGE 3 of 3

FOXHEAD INDUSTRIAL PARK - PHASE II PROJECT NO. 1515-1

BY TLK CKD. BY PEK DATE 04/05/05 REV. 11/02/05

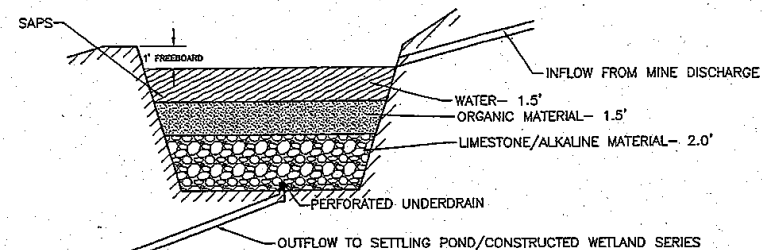
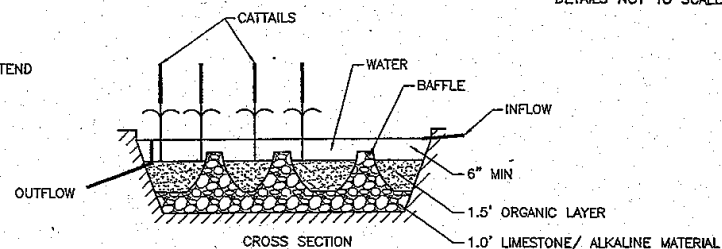
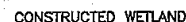
#### REFERENCES

Design of this facility followed the guidance found in the following publications:

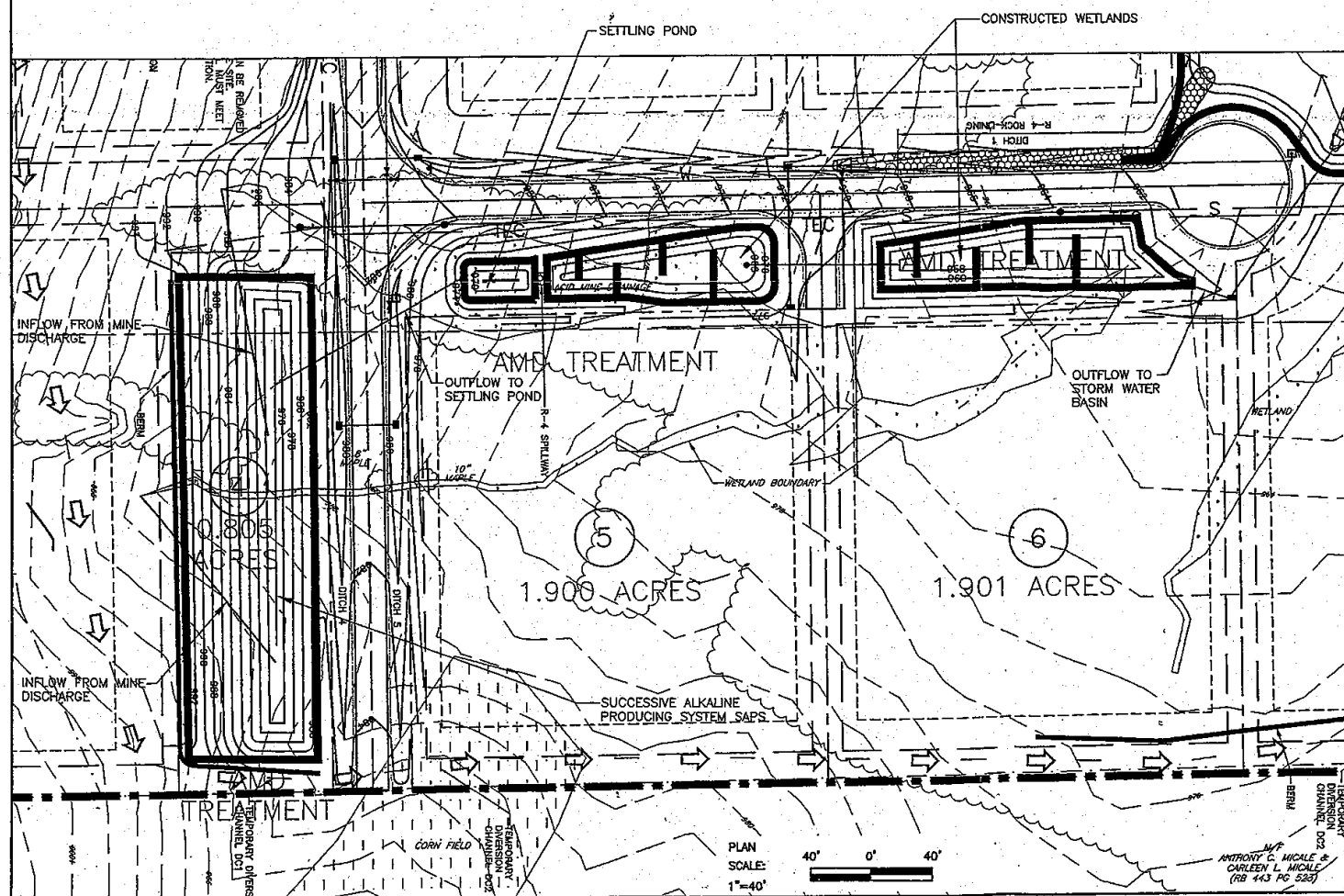
1. "Passive Treatment of Coal Mine Drainage"; Hedin, Narin, and Kleinmann; Bureau of Mines Information Circular IC 9389, 1994
2. "A Handbook of Constructed Wetlands - a guide to creating wetlands for: Agricultural Wastewater, Domestic Wastewater, Coal Mine Drainage, and Stormwater in the Mid-Atlantic Region, Volume 4- Coal Mine Drainage"; ISBN 0-16-053002-4; NRCS and EPA
3. "Coal Remining Best Management Practices Guidance Manual, Section 4: Passive Treatment"; EPA-821-B-01-010; EPA; December 2001

Additional design input was obtained from DEP, Knox District Mining Office.





SAPS SUCCESSIVE ALKALINE PRODUCING SYSTEM



**LIMESTONE:**

- **LIMESTONE:** Limestone utilized in these AMD facilities shall consist of alkaline material with a neutralization potential of 100 % calcium carbonate equivalent, which can include, kiln dust, crushed limestone, limestone crusher waste, partially burnt lime, off-spec lime products, and fluidized bed combustion ash. This material must be obtained and transported to the work site for incorporation with excavated material at rates of either 35 lb/cu yd or 275 lb/cu yd as specified on the construction drawings.
- Acquired alkaline material must be periodically re-tested with a frequency determined by the variability of the material to verify the neutralization potential.
- Rates of application must be adjusted accordingly should testing reveal a calcium carbonate equivalent of less than 100%.
- An adequate stockpile of acquired alkaline material must be maintained on site at all times from the start of excavation until final grading has been completed.

**BAFFLES:**

- BAFFLES:**
- Four baffles shall be placed in each constructed wetland to extend the flow path of water through these structures.
  - These baffles shall consist of loosely piled limestone and organic layer compost mixed together. No minimum width is required.
- Length must extend across two-thirds of the wetland ponding area. Height shall extend to no more than 6 inches below top of embankment.

ORGANIC LAYER:

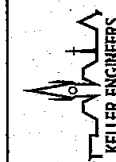
- The organic layer utilized in these facilities shall consist of a well-composted organic material; such as, spent mushroom compost.
- This material shall contain a minimum calcium carbonate equivalent of 10%.
- Compost shall be compacted as little as possible during placement. Final surface shall be hummocky and can extend into water layer.

CATTAILS:

- The constructed wetlands shall be re-vegetated with cattails.
- Cattail plant-rhizomes shall be planted well into the organic layer prior to flooding the wetland.

Source of materials: limestone, organic layer, & cattail plant rhizomes, shall be approved by Engineer.

KELLER ENGINEERS, INC.  
420 ALLEGHENY STREET  
HOLLIDAYSBURG, PA 16648  
PHONE: 814-696-7430  
FAX: 814-696-0150

[illegible]

## AMD PASSIVE TREATMENT SYSTEM

FOX HEAD INDUSTRIAL PARK  
PHASE II  
FOX TOWNSHIP, ELK COUNTY  
PENNSYLVANIA

PROJECT NO: 1551-1	FILE NAME: PLOTS\AMD.dwg	DATE: 03/02/05	DESIGNED BY: ROK	DRAWN BY: ROK/SOS	CHECKED BY: BEK
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# **ENVIRONMENTAL GOOD SAMARITAN PROJECT PROPOSAL**



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF MINING AND RECLAMATION

DEP USE ONLY

Date Received

I.D. Number

## ENVIRONMENTAL GOOD SAMARITAN PROJECT PROPOSAL

### SECTION A. APPLICANT

1. Applicant's Name: FOX TOWNSHIP, ELK COUNTY

Mailing Address: P.O. Box 184  
116 Irishtown Road  
Kersey, PA 15846

E-mail address:

Applicant is: (check appropriate blocks)

- ☐ an individual      ☐ an authority  
☐ an association    ☒ other body of local government  
☐ a business        ☐ a state or federal agency  
☐ Other: describe: \_\_\_\_\_

2. Project Coordinator's Name: Kathy Mosier

Mailing Address: same as above

E-mail address: foxtwp@ncentral.com

Telephone No.: ( 814 ) 885 - 8450

3. Provide the names and addresses of project landowners on Attachment A and project participants on Attachment B. Provide the names and addresses of adjacent and downstream landowners on Attachment C.

### SECTION B. LOCATION

1. County: ELK

Municipality: FOX TOWNSHIP

2. Narrative description of the boundaries of the project; identify the properties and their owners within and adjacent to the project area. The applicant may attach a map that provides this information instead of the narrative.

*This project will only involve one-property. The two mine discharges originate within Fox Township's property and proposed treatment BMPs will be located within the industrial park. The surrounding land use includes the adjacent Phase I of the Foxhead Industrial park, farmland and woodland. A map showing property ownership is attached to this document.*

3. Newspaper with general circulation in the locality of the project:

Name: The Daily Press  
PO Box 353  
Address: St. Marys, PA 15857  
Telephone: (814) 781-1539

### SECTION C. DESCRIPTION OF PROJECT

1. Project Name: FOXHEAD INDUSTRIAL PARK, AMD PASSIVE TREATMENT PROJECT

Has project started? ☐ Yes When? \_\_\_\_\_ ☒ No  
 Check type of project: ☒ Water Pollution Abatement    ☐ Reclamation    ☐ Both

2. Project Area: 326 acres      Project duration (months) approx. 6 month construction period

3. **Project Description** - Describe the problem to be addressed by the project and the sequence and timing of project activities, include identifiable milestones and the timetable for completing each milestone. If the project has started, identify the activities currently taking place.

*The overall plans for the property involve the development of an industrial park. The development will be Phase II of Fox Township's adjacent existing Foxhead Industrial Park. The owner/developer, Fox Township, wishes to enhance the environment within the industrial park in order to offer potential tenants a more appealing and desirable development site. Fox Township is willing to address this AMD degradation through the construction of a passive treatment system. Since the property is underlain by bituminous coal and its' associated strata known to have caused post-mining acid discharges, an Individual NPDES Stormwater Construction Permit has been applied for which includes a handling plan to prevent post-construction water quality degradation. Therefore, the enhancement to water quality provided by this project is two-fold. The passive AMD design is integrated into the overall project design and will be constructed as part of the initial park infrastructure.*

*Two small acid mine discharges flow from the hillside on the southern end of the property. The flows are discharges from abandoned deep mine workings on the Lower Kittanning coal seam. While flow of the discharges is relatively small the quality of the discharges does slightly impact the receiving stream, Beaver Creek. The poor quality discharges have a greater impact on the habitat immediately downstream of the discharges.*

*The timing of this project will generally follow this sequence:*

- *Submit plans and permit applications for approval to DEP and local municipality – spring/summer 2005*
- *Bid project and award contract– late summer 2005*
- *Construct project – end of 2005 – 2006*
- *Upon completion of initial construction, begin lot development – 2006*
- *Upon completion of initial development, begin long-term monitoring of passive AMD system.*

4. **Right of Entry:** Attach documentation that each landowner has given the applicant, the participants and the Department permission to enter onto the project area to Attachment D.

5. **Certification and Signature:**

I certify that the information in this application is true and correct to the best of my knowledge.

Submitted by: Fox Township 11-9-05  
Applicant Date

Signature: Michael Keller Chairman  
Title

# Attachment A

## List of Landowners

FOXHEAD INDUSTRIAL PARK, AMD PASSIVE TREATMENT PROJECT  
(Project Name)

FOX  
(Township)

ELK  
(County)

The following landowners have or will have provided access to their land for the reclamation or water pollution abatement project identified above. These landowners may be eligible for coverage under the Environmental Good Samaritan Act of 1999.

<p>Name: FOX TOWNSHIP Mailing P.O. Box 184 Address: 116 Irishtown Road Kersey, PA 15846</p> <p>Phone #: (814) 885 - 8450</p> <p>Type of person:</p> <p><input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation</p> <p><input type="checkbox"/> Association <input checked="" type="checkbox"/> Authority or Local Government</p> <p><input type="checkbox"/> State or federal agency <input type="checkbox"/> Other</p> <p>Signature _____</p>	<p>Name: _____ Mailing _____ Address: _____</p> <p>Phone #: _____</p> <p>Type of person:</p> <p><input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation</p> <p><input type="checkbox"/> Association <input type="checkbox"/> Authority or Local Government</p> <p><input type="checkbox"/> State or federal agency <input type="checkbox"/> Other</p> <p>Signature _____</p>
<p>Name: _____ Mailing _____ Address: _____</p> <p>Phone #: _____</p> <p>Type of person:</p> <p><input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation</p> <p><input type="checkbox"/> Association <input type="checkbox"/> Authority or Local Government</p> <p><input type="checkbox"/> State or federal agency <input type="checkbox"/> Other</p> <p>Signature _____</p>	<p>Name: _____ Mailing _____ Address: _____</p> <p>Phone #: _____</p> <p>Type of person:</p> <p><input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation</p> <p><input type="checkbox"/> Association <input type="checkbox"/> Authority or Local Government</p> <p><input type="checkbox"/> State or federal agency <input type="checkbox"/> Other</p> <p>Signature _____</p>
<p>Name: _____ Mailing _____ Address: _____</p> <p>Phone #: _____</p> <p>Type of person:</p> <p><input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation</p> <p><input type="checkbox"/> Association <input type="checkbox"/> Authority or Local Government</p> <p><input type="checkbox"/> State or federal agency <input type="checkbox"/> Other</p> <p>Signature _____</p>	<p>Name: _____ Mailing _____ Address: _____</p> <p>Phone #: _____</p> <p>Type of person:</p> <p><input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation</p> <p><input type="checkbox"/> Association <input type="checkbox"/> Authority or Local Government</p> <p><input type="checkbox"/> State or federal agency <input type="checkbox"/> Other</p> <p>Signature _____</p>
<p>Name: _____ Mailing _____ Address: _____</p> <p>Phone #: _____</p> <p>Type of person:</p> <p><input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation</p> <p><input type="checkbox"/> Association <input type="checkbox"/> Authority or Local Government</p> <p><input type="checkbox"/> State or federal agency <input type="checkbox"/> Other</p> <p>Signature _____</p>	<p>Name: _____ Mailing _____ Address: _____</p> <p>Phone #: _____</p> <p>Type of person:</p> <p><input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation</p> <p><input type="checkbox"/> Association <input type="checkbox"/> Authority or Local Government</p> <p><input type="checkbox"/> State or federal agency <input type="checkbox"/> Other</p> <p>Signature _____</p>

## Attachment B

### List of Project Participants

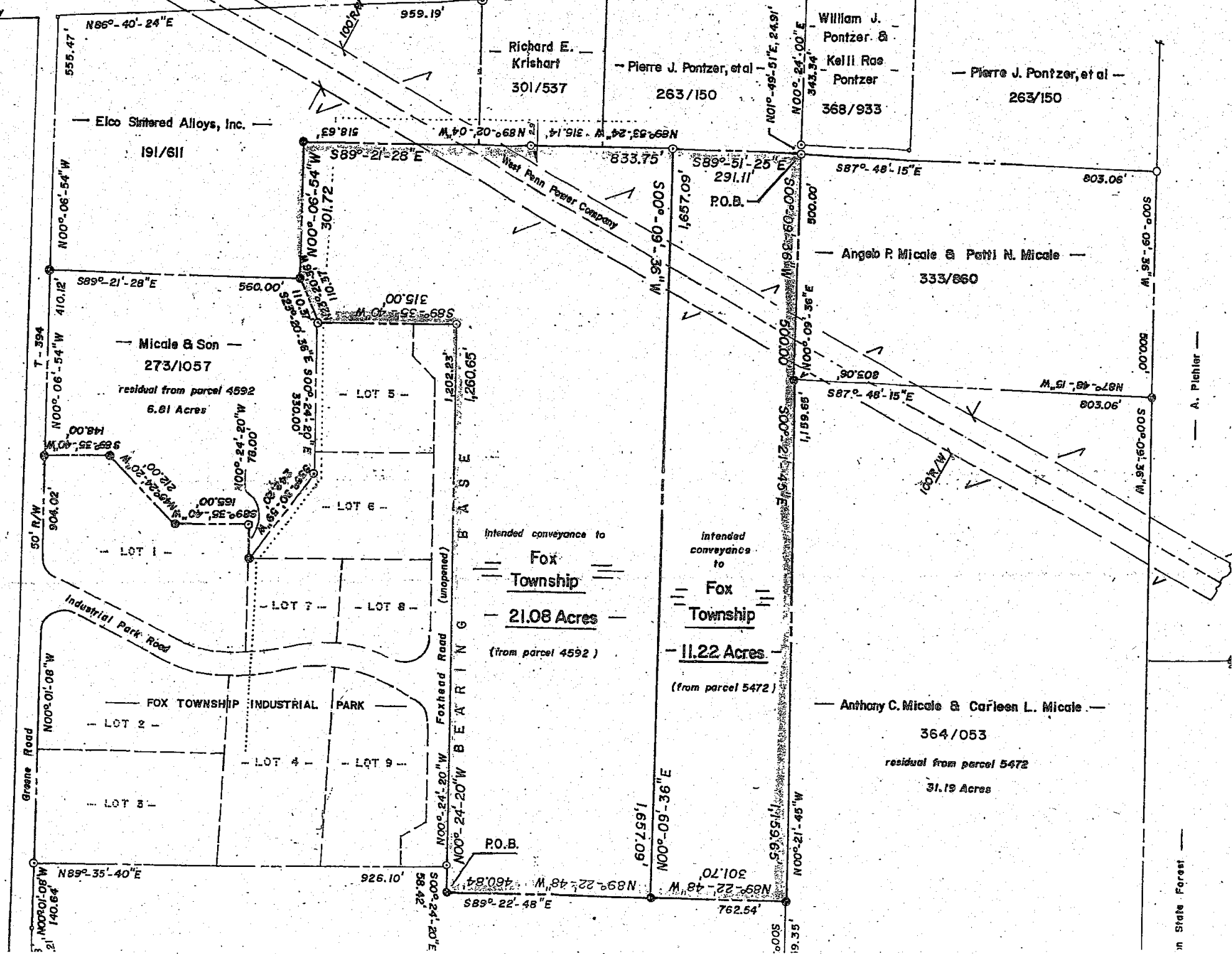
FOXHEAD INDUSTRIAL PARK, AMD PASSIVE TREATMENT PROJECT  
(Project Name)

FOX  
(Township)

ELK  
(County)

The following persons have or will have provided equipment, materials or services for the reclamation or water pollution abatement project identified above. These persons may be eligible for coverage under the Environmental Good Samaritan Act of 1999.

<p>Name: Same as attachment A &amp; contracting with private contractor</p> <p>Mailing Address:</p>  <p>Phone #:</p> <p>Type of person:</p> <p> <input type="checkbox"/> Individual      <input type="checkbox"/> Partnership      <input type="checkbox"/> Corporation  <input type="checkbox"/> Association      <input type="checkbox"/> Authority or Local Government  <input type="checkbox"/> State or federal agency      <input type="checkbox"/> Other         </p> <p>Signature _____</p>	<p>Name:</p> <p>Mailing Address:</p>  <p>Phone #:</p> <p>Type of person:</p> <p> <input type="checkbox"/> Individual      <input type="checkbox"/> Partnership      <input type="checkbox"/> Corporation  <input type="checkbox"/> Association      <input type="checkbox"/> Authority or Local Government  <input type="checkbox"/> State or federal agency      <input type="checkbox"/> Other         </p> <p>Signature _____</p>
<p>Name:</p> <p>Mailing Address:</p>  <p>Phone #:</p> <p>Type of person:</p> <p> <input type="checkbox"/> Individual      <input type="checkbox"/> Partnership      <input type="checkbox"/> Corporation  <input type="checkbox"/> Association      <input type="checkbox"/> Authority or Local Government  <input type="checkbox"/> State or federal agency      <input type="checkbox"/> Other         </p> <p>Signature _____</p>	<p>Name:</p> <p>Mailing Address:</p>  <p>Phone #:</p> <p>Type of person:</p> <p> <input type="checkbox"/> Individual      <input type="checkbox"/> Partnership      <input type="checkbox"/> Corporation  <input type="checkbox"/> Association      <input type="checkbox"/> Authority or Local Government  <input type="checkbox"/> State or federal agency      <input type="checkbox"/> Other         </p> <p>Signature _____</p>
<p>Name:</p> <p>Mailing Address:</p>  <p>Phone #:</p> <p>Type of person:</p> <p> <input type="checkbox"/> Individual      <input type="checkbox"/> Partnership      <input type="checkbox"/> Corporation  <input type="checkbox"/> Association      <input type="checkbox"/> Authority or Local Government  <input type="checkbox"/> State or federal agency      <input type="checkbox"/> Other         </p> <p>Signature _____</p>	<p>Name:</p> <p>Mailing Address:</p>  <p>Phone #:</p> <p>Type of person:</p> <p> <input type="checkbox"/> Individual      <input type="checkbox"/> Partnership      <input type="checkbox"/> Corporation  <input type="checkbox"/> Association      <input type="checkbox"/> Authority or Local Government  <input type="checkbox"/> State or federal agency      <input type="checkbox"/> Other         </p> <p>Signature _____</p>
<p>Name:</p> <p>Mailing Address:</p>  <p>Phone #:</p> <p>Type of person:</p> <p> <input type="checkbox"/> Individual      <input type="checkbox"/> Partnership      <input type="checkbox"/> Corporation  <input type="checkbox"/> Association      <input type="checkbox"/> Authority or Local Government  <input type="checkbox"/> State or federal agency      <input type="checkbox"/> Other         </p> <p>Signature _____</p>	<p>Name:</p> <p>Mailing Address:</p>  <p>Phone #:</p> <p>Type of person:</p> <p> <input type="checkbox"/> Individual      <input type="checkbox"/> Partnership      <input type="checkbox"/> Corporation  <input type="checkbox"/> Association      <input type="checkbox"/> Authority or Local Government  <input type="checkbox"/> State or federal agency      <input type="checkbox"/> Other         </p> <p>Signature _____</p>



# Attachment C

## List of Adjacent and Riparian Landowners

FOXHEAD INDUSTRIAL PARK, AMD PASSIVE TREATMENT PROJECT  
(Project Name)

FOX  
(Township)

ELK  
(County)

The following landowners either:

- (1) own property immediately next to the property on which the project will take place; or
- (2) own stream-side property within 1,000 feet (304.8 meters) downstream of the project.

<p>Name: Richard Krishart Mailing Address: 640 Shelvey Summit Road Kersey, PA 15846</p> <p><input type="checkbox"/> Adjacent <input checked="" type="checkbox"/> Downstream</p>	<p>Name: Sinterfire, Inc Mailing Address: 200 Industrial Park Road Kersey, PA 15846</p> <p><input checked="" type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>
<p>Name: ELCO Sintered Alloys Mailing Address: PO Box 183 Kersey, PA 15846</p> <p><input type="checkbox"/> Adjacent <input checked="" type="checkbox"/> Downstream</p>	<p>Name: Mailing Address:</p> <p><input type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>
<p>Name: Alan Viglione Mailing Address: PO Box 148 Kersey, PA 15846</p> <p><input checked="" type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>	<p>Name: Mailing Address:</p> <p><input type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>
<p>Name: Pierre Pontzer Mailing Address: 166 Green Road Kersey, PA 15846</p> <p><input checked="" type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>	<p>Name: Mailing Address:</p> <p><input type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>
<p>Name: Angelo P. Micale (deceased) &amp; Patti N. Micale Mailing Address: 225 Fairview Road Kersey, PA 15846</p> <p><input checked="" type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>	<p>Name: Mailing Address:</p> <p><input type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>
<p>Name: Anthony C. Micale &amp; Carleen L. Micale Mailing Address: 118 Sheeley Road Kersey, PA 15846</p> <p><input checked="" type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>	<p>Name: Mailing Address:</p> <p><input type="checkbox"/> Adjacent <input type="checkbox"/> Downstream</p>



**Fox Township Board of Supervisors**

PO Box 184  
116 Irishtown Road  
Kersey, PA 15846

Phone: (814) 885-8450

Fax: (814) 885-6158

email: [foxtwp@ncentral.com](mailto:foxtwp@ncentral.com)

Knox District Mining Office  
White Memorial Building, P.O. Box 669  
Knox, PA 16232-0669

RE: PERMISSION TO ENTER  
FOXHEAD INDUSTRIAL PARK AND PASSIVE TREATMENT SYSTEM  
FOX TOWNSHIP, ELK COUNTY

To Whom It May Concern:

The Fox Township Board of Supervisors grants permission to the Pennsylvania Department of Environmental Protection to enter the property containing Phase II of the Foxhead Industrial Park. Access is granted for the purpose of observation, sample collection, and other duties as needed to evaluate the construction and operation of the above referenced treatment project.

Sincerely,

Michael Keller

Supervisor



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF MINING AND RECLAMATION

**APPROVAL OF COVERAGE UNDER THE ENVIRONMENTAL  
GOOD SAMARITAN ACT**

In compliance with the provisions of the Environmental Good Samaritan Act of 1999, the Pennsylvania Department of Environmental Protection hereby approves the \_\_\_\_\_  
(Name of Project)

\_\_\_\_\_  
(Water Pollution Abatement and/or Reclamation Project)

to be conducted by the \_\_\_\_\_  
(Applicant)

in \_\_\_\_\_, \_\_\_\_\_  
(township) (county)

The attached lists of landowners and project participants may qualify for the protections and immunities provided by the Environmental Good Samaritan Act for their voluntary reclamation of land or water adversely affected by abandoned mining, oil or gas extraction or exploration for these resources. A person who under existing law is or may become responsible to reclaim the land or address the water pollution or anyone who by order or otherwise is required to or agrees to perform the reclamation or abate the water pollution is not eligible for the protections and immunities provided by the Environmental Good Samaritan Act. This project approval makes no determination as to the eligibility of the landowners and participants identified on the attached lists for protection and immunities provided by the Environmental Good Samaritan Act.

The following permits must be applied for and issued before work on the project site may begin. Applications for these permits may be obtained from this DEP office.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Coverage approval date \_\_\_\_\_

Authorized by \_\_\_\_\_

\_\_\_\_\_ Office

Attachments

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF MINING AND RECLAMATION

## ENVIRONMENTAL GOOD SAMARITAN PROJECT PROPOSAL

### INSTRUCTIONS

#### GENERAL INFORMATION

1. **Eligible Projects are:**
  - Projects that reclaim lands that have been adversely affected by mining, oil or gas extraction or exploration for these resources.
  - Projects that treat or abate water pollution caused by mining or oil or gas extraction.
2. This information is provided to assist the applicant in obtaining DEP approval for reclamation and water pollution abatement projects under the Environmental Good Samaritan Act.
3. Complete the application by typing or printing clearly. If additional space is required to provide information in this application, attach an 8½ x 11 inch sheet of paper appropriately labeled.
4. One original of this application must be completed and submitted to the appropriate DEP District Mining Office.

#### GROWING GREENER PROJECTS

If a project is approved for a grant under the Pennsylvania Growing Greener program, the applicant may apply for coverage under the Environmental Good Samaritan Act by completing Attachments A, B, C and D and sending them along with one copy of the Growing Greener grant application to the appropriate District Mining office.

#### SECTION A. APPLICANT INFORMATION

1. **Applicant:** Identify the person or organization under which the application is filed, the applicant's legal mailing address, and the type of person or persons. The applicant is usually the person who has overall responsibility and control of the project activities.
2. **Project Coordinator:** Give the name of the individual representing the applicant and having primary control of on-site activities; the daytime telephone number for the project coordinator; and the legal mailing address of the project coordinator.
3. **List of Landowners:** Identify all landowners within the project area on Attachment A.
4. **List of Project Participants:** Identify the persons or organizations that will be working on the project on Attachment B. It is not necessary, but it is a good idea, to identify individual members of participating organizations. The project applicant can add

persons to this list as the project progresses. Persons not on the list are not prohibited from working on the project.

5. **List of Adjacent and Riparian Landowners:** Provide the names and addresses of property owners adjacent to the property(ies) on which the project will take place on Attachment C.

If the project is adjacent to a stream or involves a discharge to a stream, provide the names and addresses of persons who own property along the stream downstream of the project area.

#### SECTION B. LOCATION

1. **Location:** Give the name of the county and municipality, for each site.
2. **Project boundaries:** Provide a narrative describing the boundaries of the project or a map of the project boundaries. Identify the properties and their owners within and adjacent to the project area.
3. **Newspaper of general circulation published in locality of proposed project:** List the name, address and telephone number of a newspaper of general circulation published in the locality of the proposed project. The Department will be responsible for project notices.

#### SECTION C. PROJECT DESCRIPTION

1. **Project Name:** Give the name of the project and check the box which identifies the type of project.
2. **Project area:** Give the total area in acres to be affected by the project and indicate the expected duration of the reclamation and abatement activities that will be taking place on the project site.
3. **Description of the problem to be addressed by the project:** If the project is a land reclamation project, describe the existing site conditions and total acres to be reclaimed. If the project is a water pollution abatement project, describe the discharges, identifying the polluting substances and their respective concentrations and flow rates. Describe the general nature of the impacts of the discharges on the receiving stream.

Describe the work to be done and the sequence and timing of activities.

- a. For reclamation projects, include a description of the reclamation to be accomplished.

- b. For water pollution abatement projects, include a description of the abatement or treatment measures planned.

Include a table that identifies the major project milestones and the estimated date for completing each milestone.

4. **Permission to Enter Project Area:** Each landowner, whose property will be used for the proposed project or used to provide access to the project area, must give his or her **permission in writing** to the project applicant to come onto the property to work on the proposed project. Each landowner must also give the Department of Environmental Protection permission to come onto the property to observe project activities, collect samples and otherwise do its job. Documentation of landowner permission may be in the form of a letter to the applicant, signed by the landowner. Documentation should be attached to Attachment D.

Once the project is approved, DEP will maintain a permanent record of the participants and landowners who are protected under the Environmental Good Samaritan Act.

For more information or assistance, please contact DEP's District Mining Offices:

**Pottsville District Mining Office**

5 West Laurel Boulevard  
Pottsville, PA 17901-2454  
Telephone: 570-621-3118

*Counties Served: Adams, Berks, Bucks, Carbon, Chester, Columbia, Cumberland, Dauphin, Delaware, Franklin, Juniata, Lackawanna, Lancaster, Lebanon, Lehigh, Luzerne, Mifflin, Monroe, Montgomery, Montour, Northampton, Northumberland, Perry, Pike, Philadelphia, Schuylkill, Snyder, Susquehanna, Union, Wayne, Wyoming and York.*

**Hawk Run District Mining Office**

Empire Road, P.O. Box 209  
Hawk Run, PA 16840-0209  
Telephone: 814-342-8200

*Counties Served: Bradford, Cameron, Centre, Clearfield, Clinton, Lycoming, Potter, Sullivan and Tioga.*

**Knox District Mining Office**

White Memorial Building, P.O. Box 669  
Knox, PA 16232-0669  
Telephone: 814-797-1191

*Counties Served: Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango and Warren.*

**Ebensburg District Mining Office**

437 South Center Street  
Ebensburg, PA 15931  
Telephone: 814-472-1900

*Counties Served: Bedford, Blair, Cambria, Fulton, Huntingdon, Indiana and Somerset.*

**Greensburg District Mining Office**

Armbrust Building, RR 2, Box 603C  
Greensburg, PA 15601-0982  
Telephone: 724-925-5500

*Counties Served: Allegheny, Armstrong, Beaver, Fayette, Greene, Washington and Westmoreland.*

**McMurray District Mining Office**

3913 Washington Road  
McMurray, PA 15317-2532  
Telephone: 724-941-7100

*Counties Served: All counties with underground bituminous mining and subsidence.*