KEYSTONE PASSIVE TREATMENT SYSTEM
Acid Mine Drainage Abatement Project
Contract No. AMD 65(1183)103.1

Bureau of Abandoned Mine Reclamation
286 Industrial Park Road
Ebensburg, PA 15931-4119
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ACTIVE AND ABANDONED MINE OPERATIONS
BUREAU OF ABANDONED MINE RECLAMATION

KEYSTONE PASSIVE TREATMENT SYSTEM
ACID MINE DRAINAGE ABATEMENT PROJECT
CONTRACT NO. AMD 65(1183)103.1

FACT SHEET

Location: The project is located in Derry Township, Westmoreland County. The site can be accessed from State Route 22 (S.R. 22) (William Penn Highway) in New Alexandria by traveling 2.8 miles south on S.R. 981 (Old Derry Road), turn left onto Slag Road (T-860), after traveling 1.0 miles turn left onto a gravel access road to the Keystone State Park Waste Water Treatment Plant, after 0.1 miles turn left and proceed through the gate to the project site.

Watershed: McCune Run, Warm Water Fishes (WWF)

Official Start Date: December 5, 2016

Contract Completion Date: October 23, 2017

Contractor: Terra Works, Inc.

Property Owners: Commonwealth of Pennsylvania
Department of Conservation and Natural Resources
1150 Keystone Park Road
Derry, PA 15627-3679

Project Cost: $447,721.50 (Final Amount), $428,418 (Bid Amount)

Project Area: 4.1 Acres

Purpose: To rehabilitate a failing acid mine discharge passive treatment system.

Description: The Keystone Passive Treatment System project involved the renovation of the existing passive system. The existing limestone upflow pond was reconfigured to a horizontal limestone bed. Six hundred feet of dual eight-inch conveyance pipelines were replaced to enable the change to the hydraulic gradeline. Two settling ponds and a manganese removal bed were added to the system, and the aerobic wetland was reconstructed. Flow is now directed through Settling Pond No. 1, the limestone bed, Settling Pond No. 2, the aerobic wetland and then the manganese removal bed to McCune Run. The existing mine drain and seal were also replaced. The system treats AMD discharges located within Problem Area 1183 (PA 1183) identified as Abandoned Mine
Land Feature (AMLF) No. 1183-01 (IWS), Impacted Water Source, AMLF No. 1183-02 (IWS) and AMLF No. 1183-03 (IWS), which are located within the Latrobe and Saltsburg 7.5 Minute USGS Quadrangle Maps. These features were the result of deep mining performed prior to 1953 by the Keystone Coal and Coke Company’s Salem No. 2 deep mine.

**Funding:**
AMD Set-Aside Funds

**Project Management:**
Bureau of Abandoned Mine Reclamation
Cambria District Office
814.472.1800

**Accomplishments:**

<table>
<thead>
<tr>
<th>PRIORITY</th>
<th>AMLF #</th>
<th>AMLF KEYWORD</th>
<th>MEASUREMENTS</th>
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AMLF – Abandoned Mine Land Feature
MO - Mine Opening
WA – Water
GPM – Gallons Per Minute
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Location Map
Pre-Construction

Limestone upflow pond from the center of the northeast embankment, looking southeast

Flushing pond from the northeast embankment looking northwest

Aerobic wetlands from the northeast embankment looking southeast

Outfall ditch from the southwest embankment of the flushing pond looking northwest
During Construction

<table>
<thead>
<tr>
<th>Excavating the mine seal</th>
<th>Installing dual mine drains</th>
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<p>| Clay mine seal and mine drains | Placing new conveyance pipelines |</p>
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<thead>
<tr>
<th>During Construction</th>
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<tbody>
<tr>
<td>Constructing Settling Pond No. 1</td>
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<tr>
<td>Constructing the horizontal limestone bed</td>
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During Construction

Constructing the aerobic wetland

Placing limestone in the manganese removal bed
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Post-Construction

<table>
<thead>
<tr>
<th>Mine Seal</th>
<th>Settling Pond No. 1</th>
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<tr>
<td>Limestone Bed</td>
<td>Settling Pond No. 2</td>
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Post-Construction

<table>
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<tr>
<th>Aerobic Wetland</th>
<th>Manganese Removal Bed</th>
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<th>Parking Area</th>
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