

PASSIVE TREATMENT SYSTEM O&M INSPECTION REPORT

Rev 5/2012

Inspection Date: _____	Project Name: Abandoned Mine Drainage Mitigation Project At Camp Lutheryn
Inspected by: _____	Municipality: Connoquenessing Township
Organization: _____	County: Butler State: PA
Time Start: _____ End: _____	Project Coordinates: 41° 09' 20" Lat 79° 54' 10" Long
Receiving Stream: Semiconon Run	Subwatershed: Little Connoquenessing Watershed: Connoquenessing Creek

Weather (circle one): Snow Heavy Rain Rain Light Rain Overcast Fair/Sunny Temp(°F): #32 33-40 41-50 51-60 60+
 Is maintenance required? Yes/No If yes, provide explanation:

INSPECTION SUMMARY

A. Site Vegetation (Uplands and Associated Slopes)

Overall condition of vegetation on site: 0 1 2 3 4 5 (0=poor, 5=excellent, circle one) (See instructions.)

Is any reseeded required? Yes/No If yes, describe area size and identify location on Site Schematic:

B. Access Road and Parking Area

Is the access road and parking area accessible for operation and monitoring? Yes/No?

Does the access road and parking area need maintenance? Yes/No?

Describe maintenance performed and remaining (Identify location on Site Schematic.):

C. Diversion Ditch and Spillways

Channel Identification	Significant Erosion (Y/N)	Debris Present (Y/N)	Maintenance Performed (Y/N)	Maintenance Performed and Remaining (Indicate ditch by number i.e. 2b = Settling Pond Outlet)
1. Upland Diversion Ditch				
2. Rock-Lined Spillways				
a. Settling Pond Inlet				
b. Settling Pond Outlet				
c. Wetland Outlet				

D. Culverts

Functioning (Y/N) Maintenance Required (Y/N) Describe Condition

Culvert 1 (N-12): _____

Culvert 2: (SS): _____

Describe maintenance performed and remaining:

E. Passive Treatment System Components

Component	Significant Erosion (Y/N)	Berms Stable (Y/N)	Vegetation Successful (Y/N)	Siltation Significant (Y/N)	Water Level Change (Y/N)	Valves Operable (Y/N)	Maintenance Performed and Remaining Indicate which component i.e. Settling Pond
Settling Pond							
Wetland						NA	

F. Wildlife Utilization

Animal sighted or tracks observed _____

Invasive plants observed _____

Describe any damage caused to treatment system by wildlife (especially muskrats) and required maintenance:

G. **Flow Measurements** – Use Bucket and Stopwatch method (Indicate no flow by entering “0” in Gallons Measured – Record in Section H)
Identify any broken, plugged, or leaking pipes.

H. **Field Water Monitoring and Sample Collection** - Raw water sample locations as marked on plan. For passive components sample effluent.
 - Not monitored

Sampling Point	Flow*		pH	Temp (°C)	Total Alkalinity (mg/L)	DO (mg/L)	Iron (mg/L)	Comments	Bottle #	Bottle # (total metals)	Bottle # (diss. metals)
	gals	sec.									
Raw											
Collection Pool*											
Settling Pond											
Wetland (Effluent)*											
Semiconon Run Up											
Semiconon Run Dn											

*Note: For Weir (Collection Pool) and Flume (Wetland Effluent) measurements, enter the depth of water in feet in the “gals” column.

I. **Sludge Accumulation**

	Sludge Accumulation (within 1-2' of Spillway Y/N*)	Sludge Description	Comments
Collection Pool:	_____	_____	_____
Settling Pond:	_____	_____	_____
Wetland*:	_____	_____	_____

*Note: The sludge accumulation in the Wetland may exceed the crest of the spillway as vegetation continues to grow in accumulated precipitates and helps to stabilize the sludge. In this case the sludge may continue to accumulate to within about 2' of the total berm height.

