



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

**Bureau Of District Mining Operations
Moshannon Office**



AMD Treatment Moshannon District Mining Operations

**Mining and Reclamation Advisory Board
April 2, 2020**

Primacy Bond Forfeiture ABS New Treatment Systems 2015 - 2019

- **Avery Coal Company, Pine Glen. Moshannon Creek.
Hydrated Lime Plant. 100GPM Capacity \$461,886**
- **Avery Pine Glen Phase II. Expansion to 300GPM
Establishment of Title IV Trust \$764,373**
- **Thompson Brothers Coal Company, Alder Run.
Hydrated Lime Plant. \$920,232**
- **Chews Contracting Co., Little D. Morgan Run
VFP Passive Treatment \$455,028**

Pine Glen Treatment System Phase I

FLOW 100 GPM
pH 3.5
Acidity 338 mg/l
FE 14 mg/l
Mn 77 mg/l
AL 33 mg/l
SO4 2245.0 mg/l



2010 SMCRA Grant Award to Stream Restoration Inc. \$461,886

Placing the lime silo



Treatment system construction



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Startup Date Phase I May 2015



Pine Glen Treatment System Phase II



FLOW 300 GPM
pH 3.5
Acidity 117.8 mg/l
FE 3.3 mg/l
Mn 19.4 mg/l
AL 12.8 mg/l
SO4 674.10 mg/l

Sevenmile Run

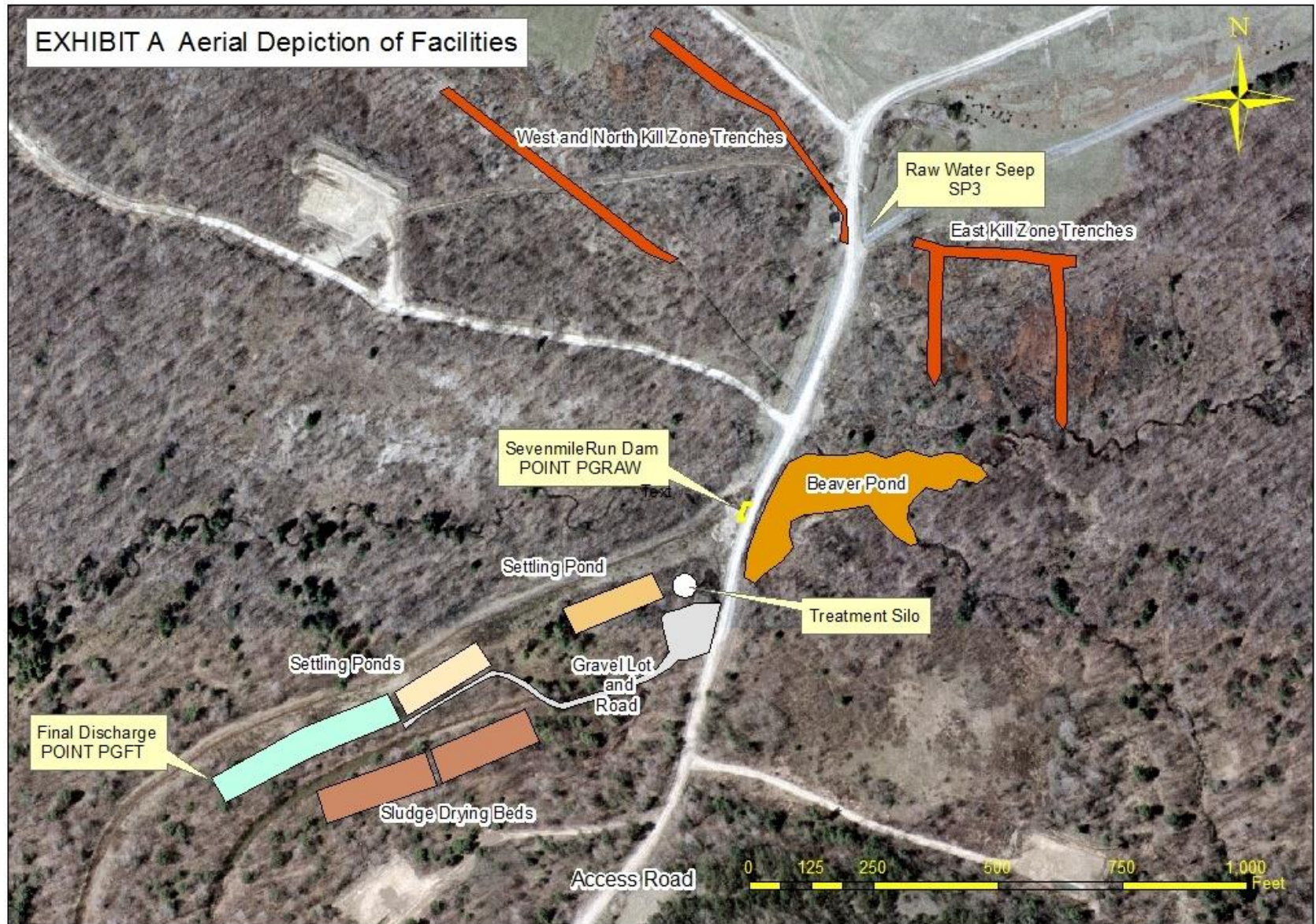
Phase II Expansion to 300gpm

OSMRE Watershed Cooperative Grant \$100,000



\$664,373 Growing Greener Grant includes \$540,564 to establish Pine Glen Trust to address Title IV discharge

Plant Expansion Operational October 2016



Pine Glen Mine Drainage Treatment Plant, Burnside Township, Centre County

Chews Contracting, Little D

Toe of Slope Surface Mine Discharge

FLOW 25 GPM
pH 3.50
Acidity 125.0 mg/l
FE 6.0 mg/l
Mn 40.0 mg/l
SO4 450.0 mg/l



Chews Contracting, Little D
2013 SMCRA Grant Award to Clfd.CCD
\$455,028



Chews Contracting, Little D Built by CCCD, O&M by MDMO



Chews Contracting, Little D Construction Completed June 2016



Deer Creek Passive Treatment

2016 Section 319 Grant Award to Clfd.CCD

\$883,174

FLOW	150	GPM
pH	3.7	
Acidity	130	mg/l
FE	9.71	mg/l
Mn	8.00	mg/l
AL	10.00	mg/l



Deer Creek Passive Treatment

2016 Section 319 Grant Award to Clfd.CCD

\$883,174



Thompson Bros Alder Run

2011 Construction bid fails to produce eligible bidder



Discharge 37 – Majority of flow
in Alder Run



Discharge 36 – Collection
Piping Collapsed

Rebidding results in 2013 SMCRA Grant Award to Stream Restoration Inc.



Thompson Bros Alder Run

Trenching combines discharges into point ARAW

FLOW	276	GPM
pH	4.16	
Acidity	167	mg/l
FE	5.39	mg/l
Mn	22.86	mg/l
AL	19.17	mg/l
SO4	1241.0	mg/l



Thompson Alder Run Hydrated Lime Plant, Operational May 2017



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