Gilt Edge Mine Superfund Site 2018 Annual Update



South Dakota DENR





2018 Acid Water Treatment Update



HydroGeoLogic, Inc. (HGL)

- Site contractor
- HGL has 6 employees on site
 - Manager, Mechanic, 4 Plant Operators

2018 Acid Water Treatment

Volume Treated

66 million gallons

Water in storage

on 12/31/18

37.5 million gallons

The plant did not operate from January 1 to July 9; due to low site precipitation.

All water discharged during 2018 met compliance standards

State Gilt Edge Funds January 2019

Forfeited bond plus interest

\$8,377,000

Settlement payments*

plus interest

\$10,088,000

Total \$18,465,000

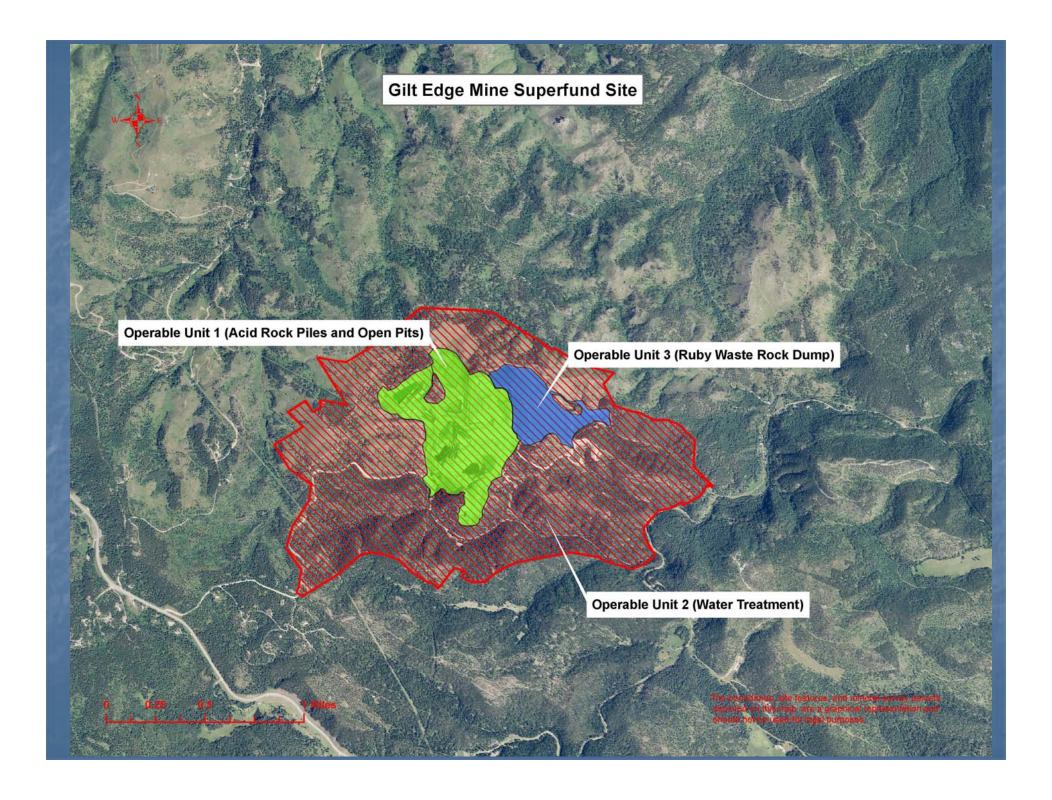
Interest Rate for 2018

1.19 %

^{*}From Potential Responsible Parties (PRP)

Remediation Costs

- Currently, EPA pays 90% and the State pays 10% of remediation costs
- Once Superfund cleanup is completed, the State will be responsible for 100% of the water treatment and site maintenance costs



Operable Unit 1 (OU1) Phase 1

Work conducted in 2017

- Construction of North Access Road
- New pipeline system
- New sludge cell
- Remove sludge from Sunday Pit
- Backfilling of Sunday Pit

Operable Unit 1 (OU1) Phase 1

Work continued through 2018

- Finished backfill and final grading work in Sunday Pit
- Remove sludge from Dakota Maid Pit
- Partial backfilling of Dakota Maid Pit
- Sorting gravels on Heap Leach Pad

Agencies Involved



US Environmental Protection Agency (EPA)



US Army Corps of Engineers (USACE) EPA's construction contract manager for the Gilt Edge Superfund Site



SD Department of Environment and Natural Resources (DENR)

Contractors During OU1 Phase 1 Remedial Action



HydroGeoLogic, Inc. (HGL)

- Site management contractor
- Water treatment



CDM Smith

Remediation Plan Design



Tetra Tech

 OU1 Phase 1 General Contractor: Pit backfill, sludge removal and storage, road building, pipeline construction







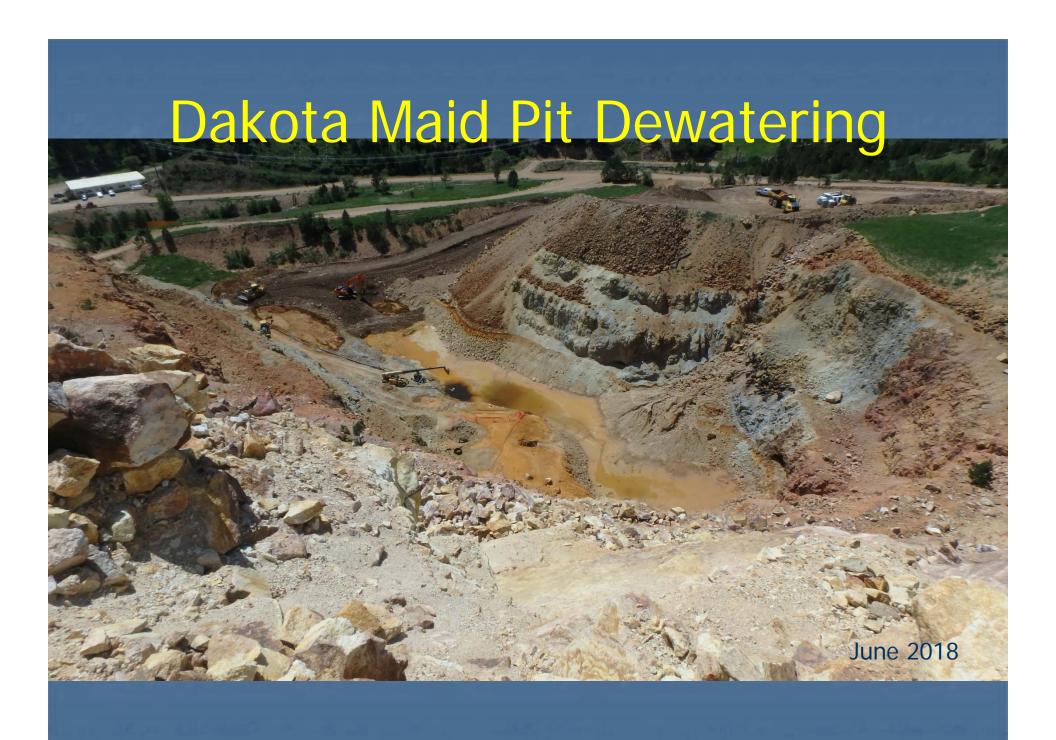


Dakota Maid Pit Dewatering



May 2018









Dakota Maid Water Gallery



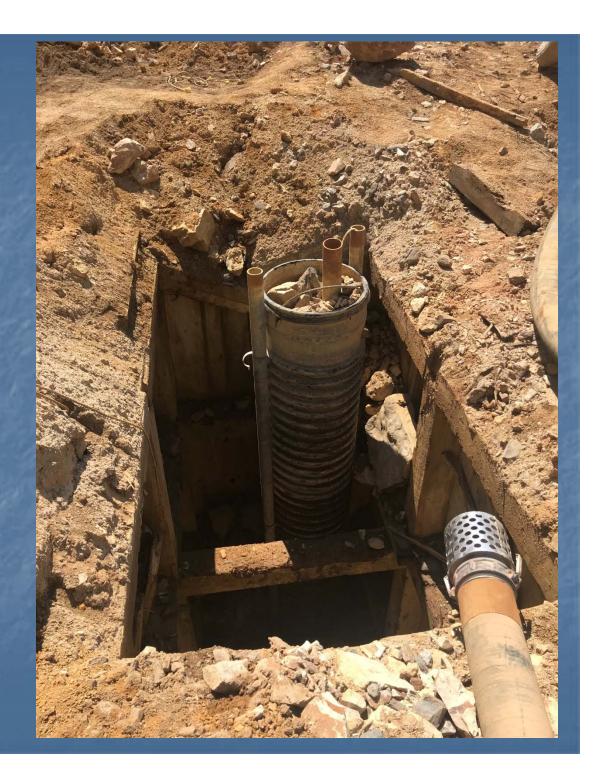
Dakota Maid Water Gallery Installation



Closing King Adit



Plugging King Shaft



Plugging King Shaft

Closure of winze in











Dakota Maid Final Grade



Heap Leach Pad Material Sorting



OU1 Phase 1 Costs

OU1 Phase 1-2017 OU1 Phase 1-2018 Total (Estimated) \$13,289,000 \$6,039,000 \$19,328,000

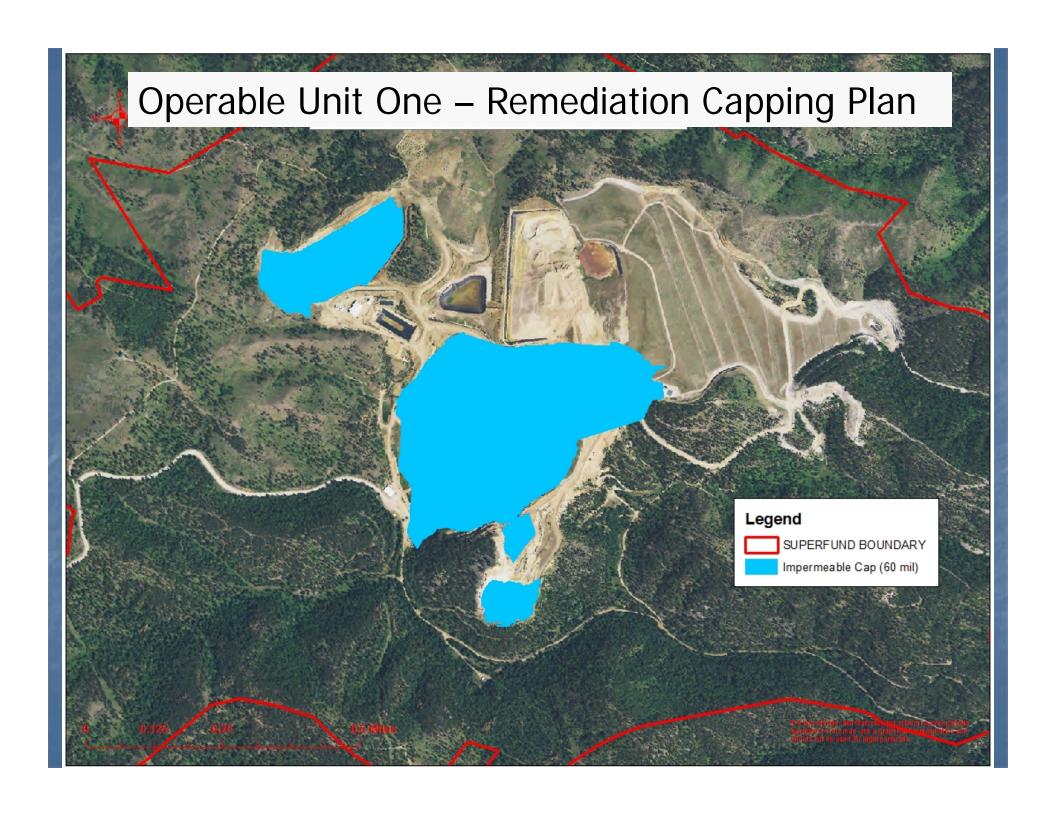
EPA will be using settlement money, so no State match will be required for OU1 Phase 1 remedial action.

Future Earthwork

- Complete backfilling Sunday and Dakota Maid Pits followed by capping
- Backfill and cap Anchor and Langley Pits
- Finish converting leach pad into water and sludge storage cells

Cleanup will proceed in phases as EPA has federal Superfund money available.

Future work phases will require 10% State match.



Administrative Settlement Agreement and Order on Consent

On February 12, 2018, EPA, the State of South Dakota and Agnico Eagle Mines Ltd. entered into an agreement and order on consent (AOC) for Agnico to perform certain remedial investigative activities at the Gilt Edge Mine Superfund site.

AOC Agreement

- Agnico will conduct environmental investigation work focusing on identifying contaminant sources, specifically cadmium, entering Strawberry Creek
- The work will include:
 - Drilling boreholes and collecting samples and information on fracture zones and groundwater flow
 - Collecting surface soil and sediment samples
- The work will also include some facility upgrades to support the investigation work, such as telecommunications improvements
- Agnico may utilize information from the work to determine if a viable mineral resource still remains at the Site

AOC Agreement

- DENR is continually looking for ways to reduce site operation and reclamation costs, which ultimately reduce federal and state taxpayer costs
- Agnico's investigation will provide geologic and mineral information that can be used by EPA and DENR to develop future cleanup and reclamation plans
- Agnico will also be able to analyze the geologic information to assess the site's mineral potential for a redevelopment project that could also decrease reclamation and operation costs

Agnico Project Update

- Drilling project started in 2018 and continuing through June 2019.
- Will assess potential surface sources of contamination along Strawberry Creek in 2019.
- Facility upgrades to Office Building completed late 2018 through early 2019
- Telecommunication upgrades to be made in 2019.









