



Civil & Environmental
Consultants, Inc.

West Virginia Department of Environmental Protection

2022 AML Contract 8 Project North Project Overview
CEOI 0313 DEP2200000017



Presented By:

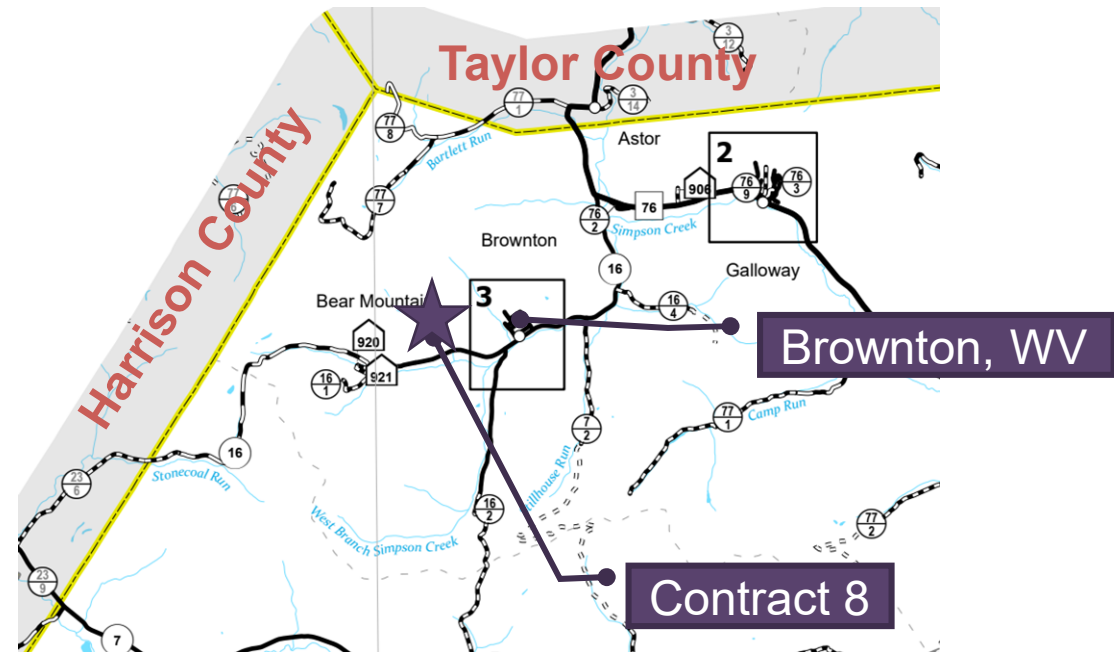
Daniel Martinez, P.E.

December 13, 2022

Disclaimer

- Civil & Environmental Consultants, Inc. (CEC) is currently pursuing the Contract 8 Project North EOI and therefore has not yet been awarded the project.
- Photos and information presented herein obtained from a combination of WVDEP provided data and field evidence observed by CEC from site walkthrough held on November 1, 2022.
- All profiles and design information presented are to be considered conceptual in nature and are intended only to depict potential approaches to mitigation alternatives.

Contract 8 North - Site Location

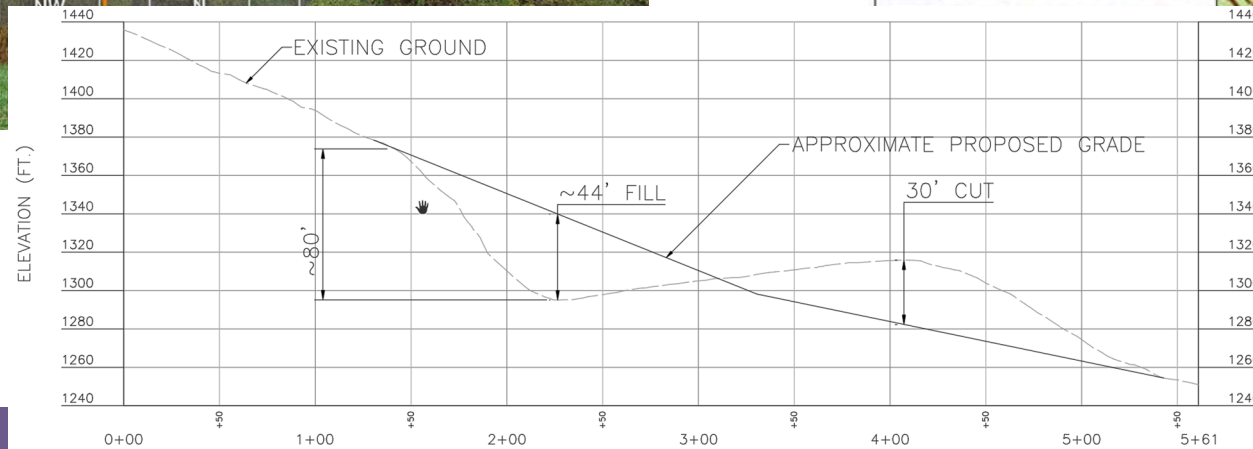


Contract 8 North Existing Hazards - Highwalls

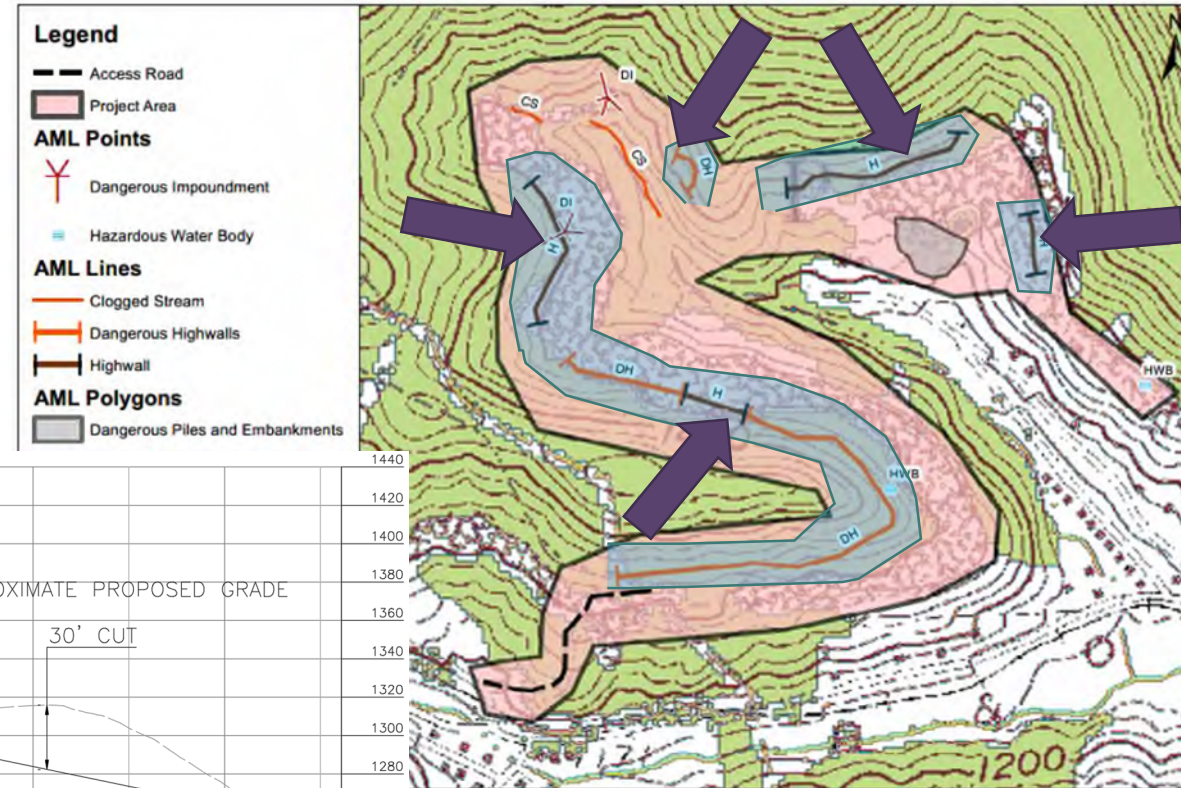
- Priority 2 Highwalls - ~5,500 LF-30-90 ft heights



NOTE: ALL PROFILES AND DESIGN INFORMATION PRESENTED ARE TO BE CONSIDERED CONCEPTUAL IN NATURE AND ARE INTENDED ONLY TO DEPICT POTENTIAL APPROACHES TO MITIGATION ALTERNATIVES



Project Location Map - Topographic Map
Brownton Refuse #2, WV-3242



Contract 8 North

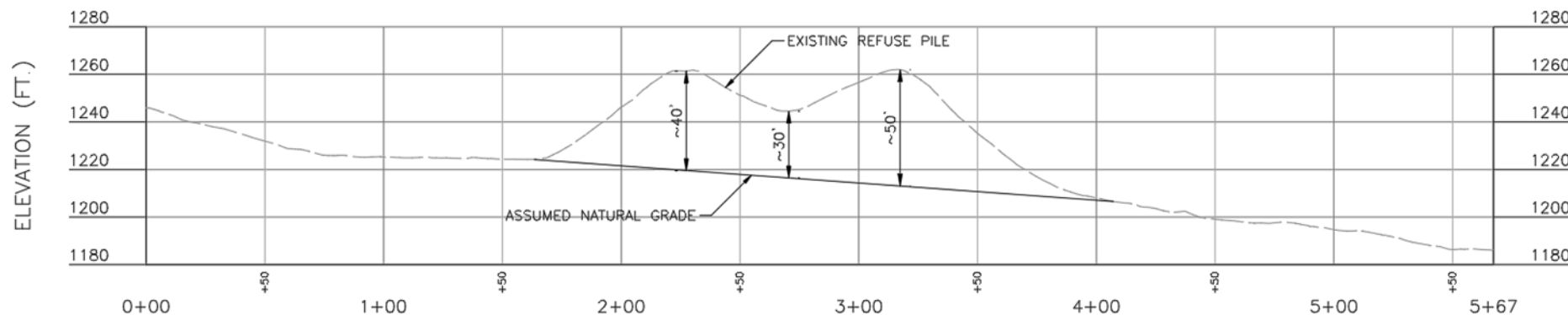
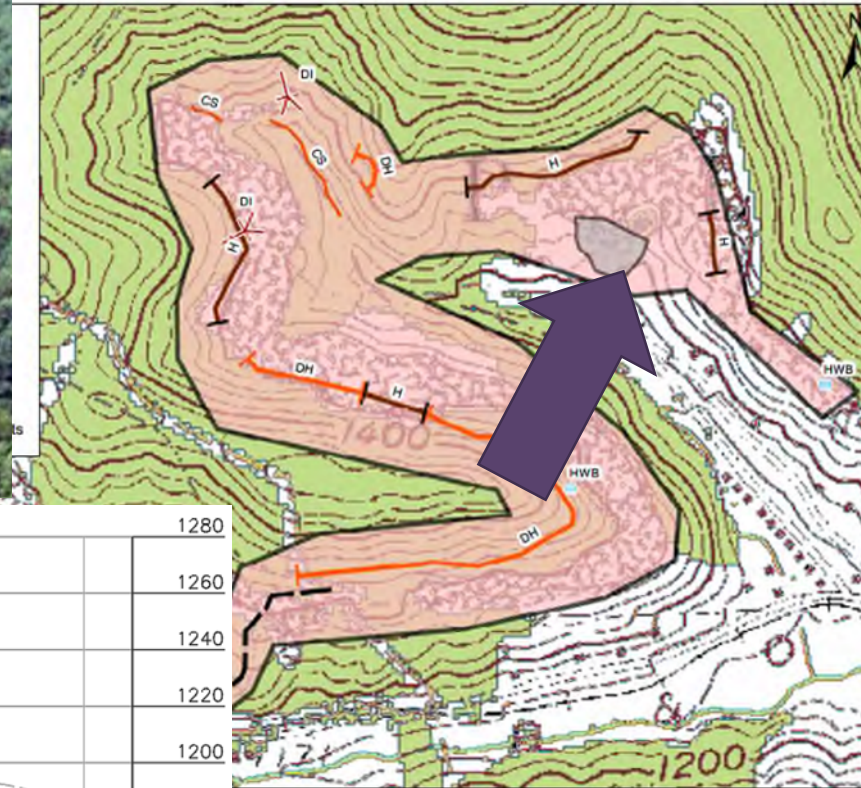
Existing Hazards – Refuse Pile

- Exposed refuse pile
 - ~40,000 CY of refuse anticipated for removal

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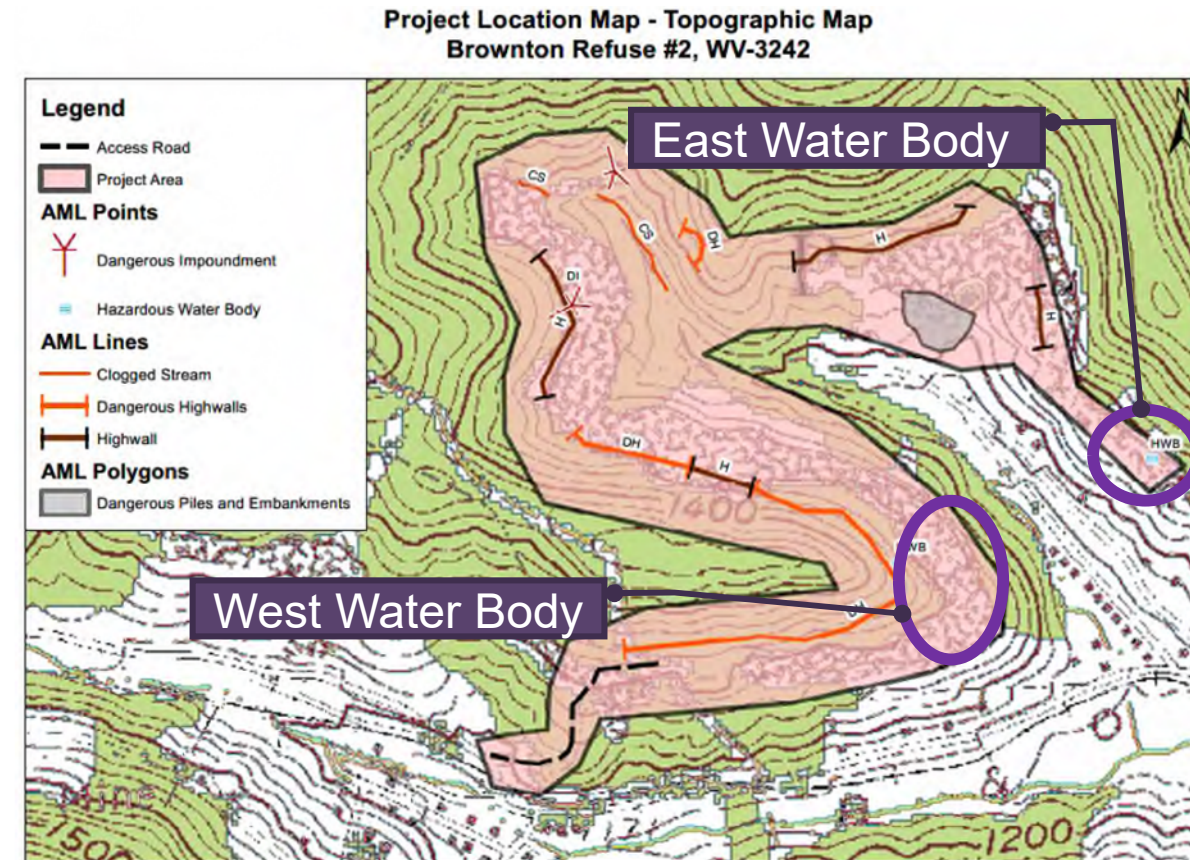
Project Location Map - Topographic Map
Brownton Refuse #2, WV-3242



Contract 8 North

Existing Hazards – Water Bodies

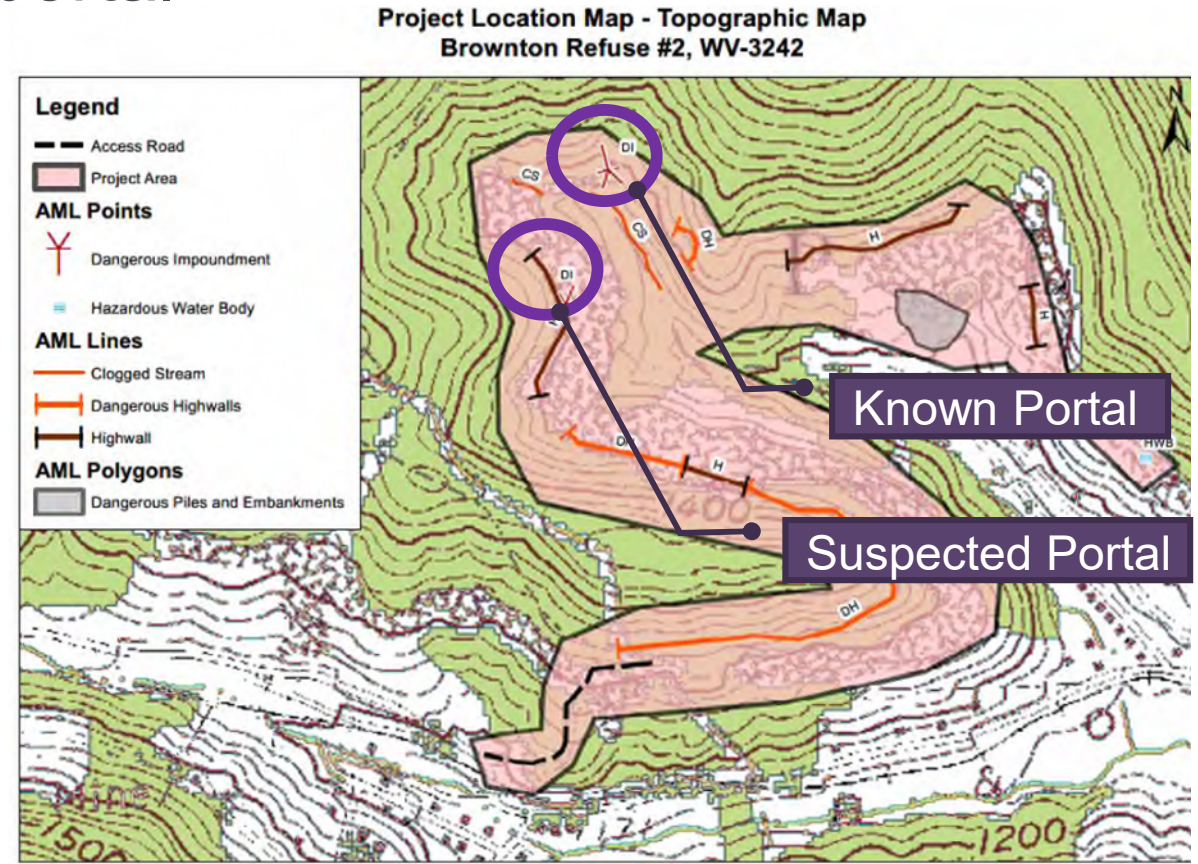
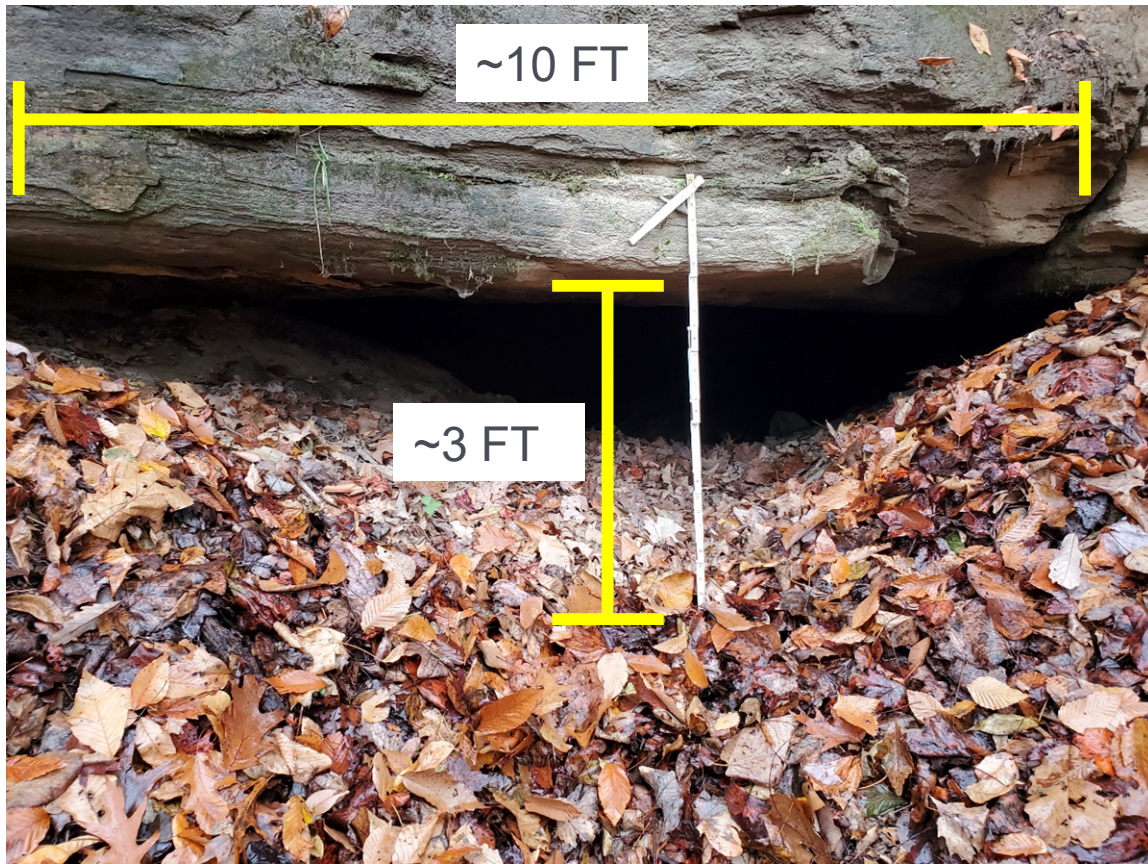
- 2 Dangerous Water Bodies



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Existing Hazards – Mine Portals

- 1 known portal and 1 suspected portal



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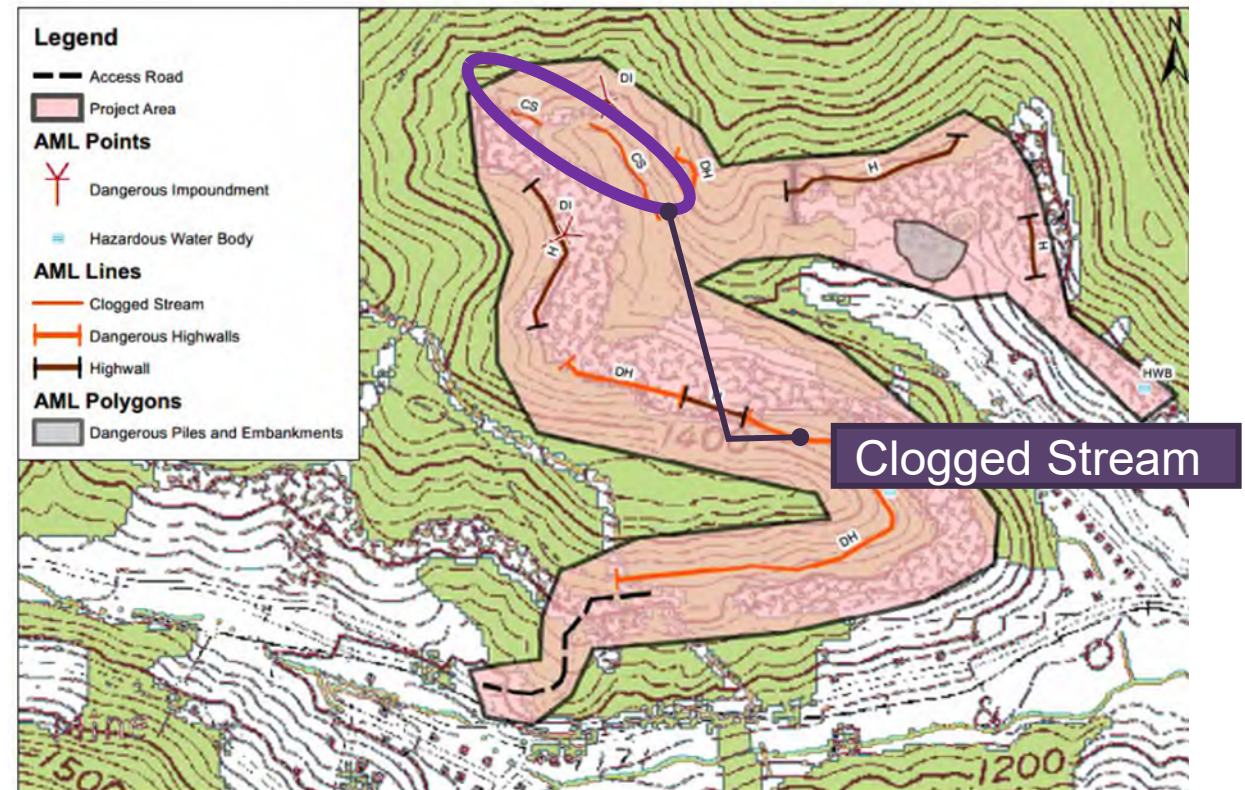
Existing Hazards – Clogged Stream

- Clogged stream and culvert to be cleared and lined with limestone



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Project Location Map - Topographic Map
Brownnton Refuse #2, WV-3242



Contract 8 North

Anticipated Mitigation Actions

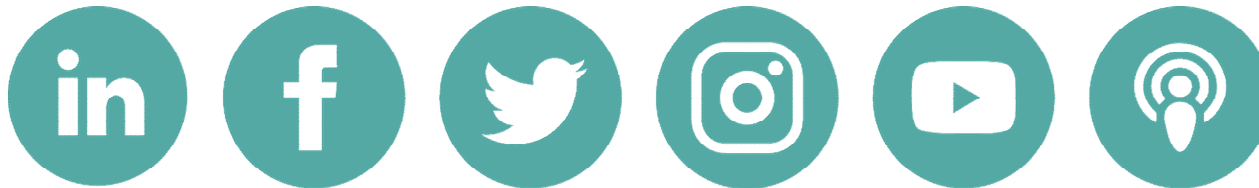
- SUMMARY OF MITIGATION ACTIONS
 - Relocation of surface gas line
 - Site wide regrading of benches and highwalls
 - Drainage improvements and regrading of existing water bodies
 - Installation of limestone drainage features
 - Mine portal sealing
 - Site access improvements

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Questions?

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