

# PROJECT SUMMARY

2014 HAZEN-WEST PHASE 3 AML PROJECT

Contract AM 694-14

**NORTH DAKOTA PUBLIC SERVICE COMMISSION**

**Abandoned Mine Lands Division**

**State Capitol, Department 408**

**600 East Boulevard Avenue**

**Bismarck, North Dakota 58505-0480**



**MAY 2015**

# **HAZEN-WEST PHASE (3) PROJECT SUMMARY**

The Hazen-West Phase 3 AML Site is located approximately 5 miles west of Hazen, North Dakota. The project site is within Sections 8 and 9, T144, R87W in Mercer County. This project site contains 30 acres of an approximately 185 acre surface mine. The project entailed the elimination of 3000 feet of dangerous highwall left at the old Knife River Coal Company surface coal mine. Reclamation work on this site started on August 11, 2014. Project Manager and Engineer for the project was Mark Knell. The Kern and Tabery, Inc. moved approximately 325,000 cubic yards of soil material to eliminate the hazardous highwalls from a 30 acre area. The contractor utilized a fleet of construction equipment which included 4-scrappers, 3-dozers, 2-off road trucks, 2 excavators and motorgrader. A sump, one small embankment and 4 dikes were constructed to control water, prevent erosional problems and establish wetland ponds. Topsoil material was salvaged prior to earthwork operations then respread following completion of the earthwork. On November 5, 2014 the earthwork at the Hazen-West Phase 3 project was completed. The project area was fertilized and seeded November 6 and 7, 2014. The placement of 15,000 feet of straw wattles, 750 feet of fence and one entrance gate were completed during the spring of 2015. The project was inspected by Allen Erickson. The project was completed for \$1,124,092.80. The attached photographs show a portion of the reclamation area.





The Dangerous Highwall Located Along the ND Game & Fish Dept. North Beulah Bass Pond





Dangerous Highwall



Unstable Highwall





Construction Equipment being Utilized During Reclamation



Contractor Utilizing Excavator to Digging Up Rock On-Site





Excavator and Truck Utilized to Move Rock





Earthwork Operations





D9 Dozer Push Loading 631 Scraper





631 Scrapers Unloading in the Project Fill Area





Post Reclamation Slope





Embankment Established to Create Wetland Pond Needed to Control Surface Water Runoff





Construction of Small Wetland Sump to Help Control Surface Water Runoff





Rock Riprap Channel Established Downstream from Wetland Sump





Scoria being placed along Shoreline of Bass Pond





Scoria Trail at ND Game and Fish Dept. Bass Pond





Dozer Leveling Respread Topsoil





Post Reclamation Slope Following Topsoil Respread Operations





Soil Being Prepared Prior to Fertilizing and Seeding Operations





Placement of Straw Wattles for Erosion Control





Straw Wattles Established