

United States Environmental Protection Agency
Region IV
POLLUTION REPORT

Date: Saturday, February 14, 2009

From: Terrence Byrd

Subject: Initiated excavation of diversion channel.

Ore Knob Mine Site

Ore Knob, NC

Latitude: 36.4086670

Longitude: -81.3238890

POLREP No.:	8	Site #:	A4ND
Reporting Period:	1/8/2009-2/6/2009	D.O. #:	
Start Date:	10/20/2008	Response Authority:	CERCLA
Mob Date:	10/20/2008	Response Type:	Time-Critical
Demob Date:		NPL Status:	NPL
Completion Date:		Incident Category:	Removal Action
CERCLIS ID #:	NCN000409895	Contract #	
RCRIS ID #:			

Site Description

The Site contains areas affected by mining, including three principal areas that were directly affected by mining along with other areas, primarily downstream, where hazardous substances have come to be located. The three principal areas include the 1950s Mine and Mill Area, the 19th Century Operations Area and a Main Tailings Impoundment. The Action memo recommends response actions to address threats from the main tailings impoundment.

The 1950's Mine and Mill Area comprises 15 acres and is located northwest of the intersection of Ore Knob Road and Little Peak Creek Road, just north of Highway 88. This area contains derelict ore bins, concrete mill foundations, a transformer building, other ruins, a small sawmill currently in operation, two acres with about 10,000 cubic yards of tailings - now mostly covered with stumps, and a two acre former pond where process water was stored. Little Peak Creek starts just upstream of the former pond, flows through the former pond, and discharges into Peak Creek 2.5 miles downstream.

The 19th Century Operations Area and the Main Tailings Impoundment are located across Little Peak Creek Road, at the end of Ore Knob Mine Road. The 19th Century Operations Area includes a series of barren and nearly barren stretches of land (totaling about 5 acres) near the top of Ore Knob that contain waste rock dumps from at least 11 mine shafts as well as locations where ore was roasted to drive off sulfur and smelted to recover copper.

Current Activities

During this reporting period, activities conducted at the site included: mobilization to the site, monitoring of ground water quality at the designated monitoring locations, excavation of topsoil, excavation of subsoil, excavation of loose rock and removal of materials from the area of the proposed diversion channel.

Site work resumed on 1/26/2009 after being suspended on 1/7/2009 while the final design of the diversion channel and slope re-facing was completed and reviewed.

A total of 1,995 cubic yards of topsoil was excavated during this reporting period. A total of 6,050 cubic yards of subsoil was excavated during this reporting period.

Excavated materials were loaded in articulating trucks, hauled to the designated stockpile areas and graded in large piles.

Excavation and removal of topsoil and subsoil has been completed from location 11+00 to 13+00.

Planned Removal Actions

Excavation of materials in the area of the diversion channel will continue. A rock breaking attachment will

be utilized to break bedrock into manageable pieces for removal and to obtain required depth of excavation for the bottom of the diversion channel. Material will be loaded into articulating trucks and hauled to designated stockpile areas. Water quality monitoring will be conducted at designated monitoring locations.

response.epa.gov/OreKnob