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FINAL

EXPANDED SITE INSPECTION REPORT
ORE KNOB FORMER MINE SITE

Ashe County, North Carolina
CERCLISID: NCN000409895

September 2008

Prepared for:

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DISCLAIMER

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TABLE OF CONTENTS

Title Page i
Disclaimer i
Table of Contents ii
List of Tables iv
List of Figures v
Appendices vi
1.0 Introduction 1
2.0 Site History And Background 3
2.1 Site Description 3
2.2 Environmental Setting 4
2.2.1 Geology and Soils 4
2.2.2 Surface Water 5
2.2.3 Ground Water 6
2.2.4 Terrestrial Resources 7
2.2.5 Aquatic Resources 9
2.3 Site History 9
2.3.1 Operational History 9
2.3.2 Waste Generation and Management 11
2.3.3 Regulatory History 12
2.4 Previous Site Investigations and Remediation 12
3.0 Expanded Site Inspection Activities 14
3.1 Site Investigations 14
3.1.1 Tailings Impoundment Pipe 14
3.1.2 Sources and Pathways in the 19th Century Operations Area 15
3.1.3 Sources and Pathways at the 1950s Mine and Mill Site 15
3.1.4 Sources of Contamination at the Tailings Impoundment 16
3.1.5 Releases to Downstream Receiving Waters 17
3.1.6 Contamination of Residential Drinking Water Wells 19
3.2 Sampling Methods and Measurements 19
3.3 Laboratory Analysis 22
4.0 Deviations From The Sampling And Analysis Plan 24
5.0 Sampling Results 27
5.1 Background Soil Samples 27
5.2 19th Century Operations Area 28
5.2.1 Waste Rock and Slag Dumps 28
5.2.2 Other Processed Materials 30
5.2.3 Soils on the 19th Century Mill and Smelter Site 32
5.3 1950s Mine and Mill Site 33
5.3.1 Tailings Disposal Area 33
5.3.2 Ore Bins 34
5.3.3 Soils on the 1950s Mill Site 35

TABLE OF CONTENTS
(continued)

5.4 Tailings Impoundment 38
5.4.1 Tailings 38
5.4.2 Soils Adjacent to the Impoundment 39
5.4.3 Tailings Dam Seeps 40
5.4.4 Tailings Pond Water 41
5.4.5 Tailings Impoundment Water Levels 41
5.5 Downstream Receiving Waters 43
5.5.1 Ore Knob Branch 43
5.5.2 Little Peak Creek 47
5.5.3 Peak Creek 50
5.5.4 South Fork New River 53
5.5.5 Flow Weighted Mass Loadings 56
5.6 Residential Samples 57
5.6.1 Drinking Water Wells 57
5.6.2 Residential Soil 58
5.7 Summary of Sampling Results 59
6.0 Contaminant Sources, Release, and Migration 69
6.1 Contaminant Sources 69
6.2 Contaminant Release Mechanisms 69
6.2.1 Contaminant Release by Physical Weathering and Erosion 70
6.2.2 Contaminant Release by Chemical Weathering 70
6.2.3 Contaminant Release by Biological Weathering 71
6.2.4 Contaminant Release by Desorption 71
6.3 Potential Contaminant Migration Routes 71
6.3.1 Surface Water Transport as Suspended Load and Bedload 71
6.3.2 Surface Water Transport as Dissolved Load 72
6.3.3 Ground Water Transport as Dissolved Load 72
6.3.4 Wind Transport 72
6.3.5 Biological Migration 73
6.4 Surface Water Pathway 73
6.4.1 Ore Knob Branch 73
6.4.2 Little Peak Creek 74
6.4.3 Peak Creek 75
6.4.4 South Fork New River 76
6.5 Ground Water Pathway 76
6.6 Soil Exposure Pathway 77
6.7 Air Migration Pathway 77
7.0 Summary 78
7.1 On-Site Contamination 78
7.1.1 19th Century Operations Area 78
7.1.2 1950s Mine and Mill Site 78
7.1.3 Main Tailings Impoundment 79

TABLE OF CONTENTS
(continued)

7.2 Off-Site Contamination 80
7.2.1 Surface Water, Sediment, and Floodplain Soil 80
7.2.2 Residential Soil and Drinking Water 81
7.2.3 Background Soil 81
7.3 Constituents of Potential Concern 81
7.4 Potential Contaminant Sources 81
7.5 Contaminant Transport Pathways 82
8.0 References 83

LIST OF TABLES

Table 2-1. Surface Water Quality Criteria used for Comparison with Sample Analytical Results
Table 3-1. Summary of ESI Samples by Field Investigation and Environmental Medium
Table 3-2. Surface Water and Sediment Sample IDs and Location Descriptions
Table 3-3. Floodplain Soil Sample IDs and Location Descriptions
Table 3-4. Summary of Stream Discharge Calculations
Table 3-5. Soil and Waste Sample IDs and Location Descriptions
Table 3-6. Residential Well Sample IDs and Location Descriptions
Table 5-1. Comparison of Background Soil Samples to Soil Screening Values
Table 5-2. Metal Concentrations in Background Soil Samples, Ore Knob Former Mine Site, North Carolina
Table 5-3. Comparison of Mine Waste and Soil Samples in the Vicinity of the 19th Century Mining and Processing Areas to Soil Screening Values
Table 5-4. Comparison of Average Mine Waste and Material Compositions to Average Background Soil Concentrations
Table 5-5. Comparison of Average Soil Compositions in the Ore Knob Area to Average Background Soil Concentrations
Table 5-6. Comparison of Tailings Samples to Soil Screening Values
Table 5-7. Comparison of Mine Waste and Soil Samples in the Vicinity of the 1950s Mill and Processing Area to Soil Screening Values
Table 5-8. Comparison of Soil Samples Collected from Stream Floodplains to Soil Screening Values
Table 5-9. Comparison of Residential Soil Samples to Soil Screening Values
Table 5-10. Comparison of Average Residential Soil Compositions in the Ore Knob Area to Average Background Soil Concentrations
Table 5-11. Comparison of Seep Samples to Ground Water and Surface Water Quality Standards
Table 5-12. Comparison of Tailings Impoundment Surface Water Pond Samples to Chronic Surface Water Criteria
Table 5-13. Comparison of Ore Knob Branch Surface Water Samples to Chronic Surface Water Criteria

LIST OF TABLES
(continued)

Table 5-14. Comparison of Ore Knob Branch Sediment Samples to Screening Values
Table 5-15. Comparison of Little Peak Creek Surface Water Samples to Chronic Surface Water Criteria
Table 5-16. Surface Water Organic Analyses Where Reporting Limits are Above Chronic Surface Water Criteria
Table 5-17. Comparison of Little Peak Creek Sediment Samples to Screening Values
Table 5-18. Comparison of Peak Creek Surface Water Samples to Chronic Surface Water Criteria
Table 5-19. Comparison of Peak Creek Sediment Samples to Screening Values
Table 5-20. Comparison of South Fork New River Surface Water Samples to Chronic Surface Water Criteria
Table 5-21. Comparison of South Fork New River Sediment Samples to Screening Values
Table 5-22. Flow Weighted Mass Loadings for Ore Knob Receiving Waters (Dissolved Metals, Total Acidity, Sulfate, TDS)
Table 5-23. Flow Weighted Mass Loadings for Ore Knob Receiving Waters (Total Metals)
Table 5-24. Summary of Flow Weighted Mass Loadings for Ore Knob Receiving Waters (Dissolved Metals, Acidity, Sulfate, TDS)
Table 5-25. Comparison of Residential Drinking Water Samples to Maximum Contaminant Levels

LIST OF FIGURES

Figure 1-1. Ore Knob Former Mine Site Location
Figure 2-1. Ore Knob Former Mine Site Study Areas and Downstream Receiving Waters
Figure 2-2. Historic Features in the 19th Century Operations and Former Mill Site Areas
Figure 2-3. Former Mill Site Current and Historic Structures
Figure 2-4. Tailings Impoundment Features and Longitudinal Profile
Figure 3-1. Sampling Locations in Downstream Receiving Waters
Figure 3-2. Sampling Locations in the 19th Century Operations Area
Figure 3-3. Sampling Locations in the 1950s Mine and Mill Site Area
Figure 3-4. Sampling Locations in the Tailings Impoundment Area
Figure 3-5. Residential Well Sampling Locations
Figure 5-1. Copper Concentrations in Soil and Waste Samples from the Historic Operations and Tailings Area
Figure 5-2. Iron Concentrations in Soil and Waste Samples from the Historic Operations and Tailings Area
Figure 5-3. Zinc Concentrations in Soil and Waste Samples from the Historic Operations and Tailings Area
Figure 5-4. Copper Concentrations in Soil and Waste Samples from the Former Mill Site Area
Figure 5-5. Iron Concentrations in Soil and Waste Samples from the Former Mill Site Area
Figure 5-6. Zinc Concentrations in Soil and Waste Samples from the Former Mill Site Area
Figure 5-7. Ground Water Levels in the Tailings Impoundment
Figure 5-8. Surface Water Depths in the Southern Tailings Impoundment

LIST OF FIGURES
(continued)

Figure 5-9. Copper Concentrations in Ore Knob Surface Water and Seep Samples
Figure 5-10. Iron Concentrations in Ore Knob Surface Water and Seep Samples
Figure 5-11. Zinc Concentrations in Ore Knob Surface Water and Seep Samples
Figure 5-12. Field Measured pH in Ore Knob Surface Water and Seep Samples
Figure 5-13. Copper Concentrations in Ore Knob Sediment and Floodplain Soil Samples
Figure 5-14. Iron Concentrations in Ore Knob Sediment and Floodplain Soil Samples
Figure 5-15. Zinc Concentrations in Ore Knob Sediment and Floodplain Soil Samples
Figure 5-16. Flow Weighted Mass Loadings for Ore Knob Receiving Waters

APPENDICES

Appendix A Sample Analytical Results Tables
Appendix B Field Logbooks and Sample Data Sheets
Appendix C Tailings Impoundment Ground Water and Surface Water Data
Appendix D Flow Measurement Data
Appendix E Photograph Log
Appendix F Laboratory Data Sheets

1.0 INTRODUCTION

The Ore Knob Former Mine Site is located in Ashe County, North Carolina, 12 miles south of the Virginia state line, 15 miles east of the Tennessee border, and 8 miles east of the town of Jefferson, North Carolina (Figure 1-1). The U.S. Environmental Protection Agency Region 4 (EPA) requested the assistance of Black & Veatch (B&V) in conducting an expanded site inspection (ESI) of the site.

The primary objective of an ESI is to determine whether a site has the potential to be placed on the National Priorities List (NPL). The NPL identifies sites at which a release, or threatened release, of hazardous substances poses a serious enough risk to public health or the environment to warrant further investigation and possible remediation under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986.

Information gathered during an ESI is used to generate a preliminary Hazard Ranking System (HRS) score. The HRS score is the primary criterion EPA uses to determine whether a site should be placed on the NPL. ESIs are generally conducted at sites where additional environmental sampling or monitoring well installation is necessary to fulfill HRS documentation requirements. ESIs also are conducted to address site issues not adequately resolved in previous investigations.

This ESI describes the investigations that EPA conducted to collect data, and presents the results of the data collection effort. Specifically, it provides data on the nature and extent of contamination in surface water, sediment, and floodplain soils contaminated by releases from the site, on the extent of areas affected by past operations and the nature and extent of contamination of the site and nearby soils and wastes; and on whether nearby drinking water wells are impacted by site contaminants.

The remainder of this ESI for the Ore Knob site is organized as follows:

- Section 2.0 provides background on the site, including site description, environmental setting, site operational history, and findings of previous investigations.

- Section 3.0 describes ESI field activities conducted from July 17-20, 2007. The discussion is broken down by study area, including the 19th century operations area, the 1950s mine and mill site, the tailings impoundment, downstream receiving waters, and residential drinking water wells. This section also includes descriptions of sampling locations and discussion of methods for environmental sampling and laboratory analyses.

- Section 4.0 discusses deviations from the *Final Sampling and Analysis Plan for Integrated Site Assessment of the Ore Knob Former Mine Site*, dated July 6, 2007 (B&V, 2007).

- Section 5.0 presents analytical results for samples collected during the July 2007 field effort; discussion is broken down by the study areas described in section 3.0.

- Section 6.0 discusses contaminant sources, contaminant release mechanisms, potential contamination migration routes, as well as surface water, ground water, soil exposure, and air migration pathways.

- Section 7.0 provides a summary of and the conclusions for this ESI report.

- Section 8.0 provides a list of references used to support this ESI report.

- Appendices A through F contain supplemental information for the ESI report:

  Appendix A – Sample Analytical Results Tables
  Appendix B – Field Logbooks and Sample Data Sheets
  Appendix C – Tailings Impoundment Ground Water and Surface Water Data
  Appendix D – Flow Measurement Data
  Appendix E – Photograph Log
  Appendix F – Laboratory Data Sheets

2.0 SITE HISTORY AND BACKGROUND

The following section contains a description of the Ore Knob Former Mine Site, the regional environmental setting, a chronology of historic mining-related operations, and a summary of previous environmental investigations undertaken on the site.

2.1 Site Description

The Ore Knob Former Mine Site consists of three principal areas that were directly affected by mining: 19th century operations area, 1950s mine and mill site, and tailings impoundment (Figure 2-1). In addition, mining-related activities have affected downstream surface waters, sediment, and floodplain soils. Each principal area is described in more detail below.

19th Century Operations Area. The 19th century operations area includes a series of barren and nearly barren areas (about 5 acres) near the top of Ore Knob that comprise waste rock dumps from at least 11 mine shafts as well as areas where ore was roasted to drive off sulfur and smelted to recover copper (another 5 acres) (see Figure 2-2 for historic features). The wooded area between the top of Ore Knob and the tailings impoundment (described below) reportedly has five sealed/blocked adits issuing acid mine drainage; four of these small-volume sources are treated in buried anoxic limestone drains constructed in the early 1990s as a Clean Water Act §319 demonstration project. Two of the adits are shown on Figure 2-2; the others are believed to be near these two. There are several rock dumps in this area and these are probably near the blocked adits. Drainage from this area flows into a small tributary that enters the southwest corner of the tailings impoundment (see below) to eventually form Ore Knob Branch.

1950s Mine and Mill Site. Ore beneficiation took place on the mill site during 1957-1962 operations. The former mill site is a 15-acre area that lies about 0.3 miles west-southwest of the nineteenth century operations (shown on Figures 2-1 and 2-2). The former mill site is comprised of derelict ore bins, concrete mill foundations, a transformer building, and other ruins, as well as a small sawmill currently in operation (Figure 2-3). These buildings were constructed on fill material, which is likely to be mine development (waste) rock derived from sinking the mine shaft for this operation. A two-acre area to the north contains about 10,000 cubic yards (±20 percent) of tailings from the mill and waste rock; this area is now mostly covered with stumps. Just northeast of the tailings is a 2-acre former pond, now a wetland, where process water was stored. The headwaters of Little Peak Creek are immediately upstream of the former pond. The creek becomes a perennial stream by the time it flows through the pond area and through a breach in the former pond dam, then continues downstream for 2.25 miles before discharging into Peak Creek (see Figure 2-1).

Tailings Impoundment. The 20-acre tailings impoundment, which lies about 0.3 miles northeast of the nineteenth century operations (shown on Figure 2-1), primarily contains tailings from the 1957-1962 operation, although the upper end may contain residual fines from 19th century roasting and smelting. An estimated 720,000 cubic yards (±20 percent) of material is deposited here. Water from two small tributaries and possible perimeter springs flows onto the tailings and forms a small pond on the southern end of the tailings (see Figure 2-4). Most of the water flows into the inlet for a 24-inch concrete pipe that was laid beneath the tailings; the pipe

was at least partly blocked at the time samples were collected in July 2007 but was flowing again by October 2007. One small perennial tributary drains the area of the 19th century operations (as mentioned above) and is somewhat degraded even after running through limestone drains. Another small tributary, which was flowing in December 2006 but not in July 2007, enters the pond from the south and is apparently unaffected by mining operations. The tailings impoundment dam consists of what appears to be a waste rock "starter dam" that serves as a buttress for the upper dam, which was constructed of successive lifts of tailings using the upstream method of construction. In all, the dam is about 60 feet in height and 700 feet wide, located approximately 1,000 feet from the upper (southern) end of the tailings impoundment. The dam has been subject to severe erosion; eroded tailings have completely filled a settling basin at the dam's base. In addition, tailings have slumped over the outlet of the 24-inch pipe that passes through the dam. It is likely that tailings have at least partially blocked the pipe, causing water to back up into the tailings impoundment and manifest as seeps through the dam face. In addition, the upper end of the pipe is reportedly at least partially blocked by debris or tailings. Water emanates from the dam in several places, with most emerging from the tailings near where the tailings have slumped over the pipe's end. Water flows through a small channel into the former settling basin and into the inlet of a pipe that carries the water to a culvert that emerges beneath the dam for the settling basin (see Figure 2-4).

Downstream Receiving Waters. Acid mine drainage from the three principal areas described above has degraded downstream receiving waters, including the entire 1.5-mile length of Ore Knob Branch, the entire 2.25-mile length of Little Peak Creek, about 2.9 miles of Peak Creek from its confluence with Ore Knob Branch to its confluence with South Fork New River, and South Fork New River for some unknown distance downstream of Peak Creek. Figure 2-1 shows the proximity of all downstream receiving waters to the principal areas of the Ore Knob site.

2.2 Environmental Setting

The Ore Knob site lies within the watershed of South Fork New River in the Blue Ridge Province of the Appalachian Mountains. The site lies near the crest of Ore Knob and in nearby drainages, with elevations approximately 3,000 feet above mean sea level. Except as noted, the following descriptions of site attributes are largely taken from USACE-NCDENR (2004). Citations to original references may be found therein.

2.2.1 Geology and Soils

The Appalachian orogenic belt of the eastern United States and Canada has many deposits of massive sulfide ores that are typically a mixture of pyrite (FeS_2), pyrrhotite ($Fe_{1-x}S$), and chalcopyrite ($CuFeS_2$). The deposits form long, narrow belts that contain scattered bodies of massive iron sulfides. Mica schist and gneiss and amphibole schist and gneiss are the principle metamorphic rocks in a regional belt that extends from the Gossan Lead pyrrhotite deposits in Virginia, southwest to the Ore Knob and Elk Knob sulfide deposits in North Carolina. These deposits also contain copper, gold, silver, and zinc in mineable quantities.

The Ore Knob complex is a group of massive sulfide deposits. The deposit is found as mica gneiss formed from a sedimentary protolith interbedded with volcanic material. Continuity of the rocks with different lithologies, the sharp contacts between different rock types, and the absence of cross cutting relations for most of the rocks indicate that the gneiss was derived from sedimentary rocks. Structural and geochemical features of the deposit indicate that the ore was metamorphosed, with some re-crystallization of both ore and wall rock after ore deposition. Much of the ore body is pyrrhotite, but pyrite is present everywhere and predominant in a few areas. Minor calcite, magnetite, zoisite, clinozoisite and rare tourmaline are found in the ore. The ore contains 15 percent sulfur; discarded tailings contain 12.5 percent sulfur and 18.7 percent iron. The ore body ranges in texture from fine grained massive sulfide to coarse grain disseminated sulfide in coarse grained silicates, principally biotite.

The ore sheet at Ore Knob is at least 4,000 feet long and lies along the plunge of lineation features of the gneiss. The ore cropped out as a gossan extending horizontally 6 to 14 feet in width and 600 to 700 feet in length. Porous leached gossan extended to a depth of 40 to 60 feet. Above 700 feet in depth, the ore body is fine-grained massive pyrrhotite with some chalcopyrite. It is in a lenticular orientation in a narrow shear zone and only locally exceeds 5 to 6 feet in thickness. Below 700 feet, the ore body near the footwall is also mainly massive pyrrhotite, but the central and hanging-wall parts are mixtures of gneiss and massive pyrite or pyrite-pyrrhotite and disseminated ore in gneiss.

Soils in the vicinity of Ore Knob consist of four major series: the Clifton, Evard, Watauga, and Toxaway series. The Clifton soil series comprises somewhat excessively drained, micaceous soils that formed in residuum of mica schist or mica gneiss. The Evard soil series consists of well drained soils that are formed in residuum of granite and gneiss. The Watauga series consists of well drained micaceous soils that formed in residuum of mica schist or mica gneiss. The Clifton, Evard and Watauga are typically found on upland slopes. The Toxaway series consists of poorly drained and very poorly drained soils on floodplains and are formed by alluvium deposits. Slopes in the vicinity of the Toxaway series are generally 0 to 2 percent.

2.2.2 Surface Water

As noted above, the areas affected by mining and mine wastes lie in the watersheds of Little Peak Creek and Ore Knob Branch, both of which are tributaries to Peak Creek. Peak Creek in turn discharges to South Fork New River. The State of North Carolina has designated Peak Creek and Little Peak Creek as trout waters, and South Fork New River as outstanding resource waters. The New River was the first river in the United States to receive a "National Wild and Scenic River" designation and also has been designated as an American Heritage River. It is one of four rivers designated by North Carolina as a "State Scenic River."

North Carolina stream classifications for Peak Creek, Little Peak Creek, and Ore Knob Branch are for Class B surface water and trout water. Class B waters are used for primary recreation, fishing, fish and aquatic life propagation and survival, and agriculture. These streams are not classified for water supply under Class B, but are classified for consumption of fish (organism only, not water plus organism). Primary recreational activities include swimming, skin diving, water skiing, and similar uses involving human body contact with water where such activities

take place in an organized manner or on a frequent basis. There are no restrictions on watershed development or types of discharges. Trout waters are intended to protect freshwaters for natural trout propagation and survival of stocked trout. This designation affects wastewater quality but not the type of discharges allowed, and there are no watershed development restrictions except stream buffer zone requirements of the North Carolina Division of Land Resources.

The State has determined that Ore Knob Branch, Little Peak Creek, and Peak Creek are impaired due to "habitat degradation and toxic impacts associated with acid mine drainage" (NCDENR, 2005) and has listed these streams under Clean Water Act §303(d) as not meeting their designated uses (NCDENR, 2007a). Although South Fork New River is not listed as being impaired, it has been reported by the North Carolina Department of Natural Resources to receive significant loadings of heavy metals from the Ore Knob former mine site; this was verified during the investigation described in this report.

The State of North Carolina has promulgated narrative and numeric surface water quality criteria intended to be protective of the designated beneficial uses assigned to surface waters in the State. These criteria are specified in NC Administrative Code 15A, Subchapter 2B as the Division of Water Quality's "Redbook" (NCDENR, 2007b). For the purposes of this report, surface water results were compared against applicable criteria specified in the Redbook. EPA's National Recommended Water Quality Criteria (EPA, 2006) were used for those metals not specified in the Redbook. Table 2-1 shows the numeric water quality criteria that were used in this report.

As noted above, Peak Creek, Ore Knob Branch, and Little Peak Creek are designated as Class B trout waters and South Fork New River in the area of the Peak Creek confluence is designated as Class B, outstanding resource water. Freshwater aquatic life criteria apply to all surface waters investigated in this study and they are generally the most stringent values. The State of North Carolina designates numeric freshwater aquatic life criteria for metals in total recoverable form. In general, these criteria are equivalent to EPA's recommended chronic water quality criteria (EPA, 2006) computed at a hardness of 50 mg/L and these values apply to all Class B waters in the State regardless of water hardness (this contrasts to EPA's recommendation to compute criteria for dissolved metals based on water hardness). The State is presently reviewing their water quality criteria and it is possible that criteria will be made hardness-dependent in the future (C. Brower, NC Division of Water Quality, personal communication, February 2008). If this occurs, then aquatic life criteria for the hardness-dependent metals (cadmium, chromium III, copper, lead, nickel, silver, and zinc) will drop to values lower than shown in Table 2-1 since ambient hardness in the streams downstream of the Ore Knob site is significantly below 50 mg/L. In addition, the criteria would likely apply to metals in dissolved form rather than the total recoverable form under the present regulations.

2.2.3 Ground Water

Very little is known about ground water in the vicinity of the site. In 2000, the Corps of Engineers sampled five wells in the vicinity of the 1950s mill site and 19th century operations, but details of this sampling program are not available. Sampling results show that most metals were well under applicable drinking water standards. Laboratory detection limits for antimony, beryllium, and thallium were above their respective standards, so it is not known if they

exceeded standards. Several contaminants, including aluminum, iron, manganese, sulfate, and pH, exceeded secondary drinking water standards (USACE-NCDENR, 2004).

2.2.4 Terrestrial Resources

Land in the immediate vicinity of the site is used for dispersed residences, mixed small-scale agriculture, and silviculture. The tailings impoundment area is reportedly leased to a local hunting club. In 2000, the Corps of Engineers compiled a partial inventory of plant species in and around the former mine site. The inventory is based on a walk-through of the sites and is therefore not complete. However, it serves to describe the plant communities present. Species identified are listed in the following tables. The tables below show plant species identified at various areas of the site (the letter "D" listed after a species indicates that this is a dominant species in that particular plant community).

Herbaceous Plants Identified Near the Tailings Area	
Dactylis glomerata	Orchard Grass
Dulichium arundinaceum	Three Way Sedge
Erechtites hieracifolia	Fire Weed
Festuca elatior	Fescue
Festuca rubra	Red Fescue
Juncus effuses	Common Rush
Polygonum pensylvanicum	Pennsylvania Smartweed
Setaria faberii	Foxtail
Verbascum thapsus	Mullein

Herbaceous Plants Identified in Wetland Below Tailings Impoundment	
Carex intumescens	
Carex lurida	
Clethera acuminate	Sweet Pepperbush
Glyceria melicaria	Mannagrass
Goodyera pubescens	Downy Rattlesnake Plantain
Hypericum mutilum	Small-flowered St. John's-wort
Juncus Canadensis	Common Rush
Juncus effusus	Common Rush
Juncus subcaudatus	
Mimulus ringens	Monkey Flower
Onoclea sensabilis	Sensitive Fern
Osmunda cinnamomeum	Cinnamon Fern
Scirpus expansus D.	
Scirpus purshianus	Club Rush
Scirpus validus D.	Great Rush
Spirea latifolia	Steeple Bush
Symplocarpus foetidus	Skunk Cabbage
Thypha latifolia D.	Cat Tail

Plant Species Identified at the Former Mill Site	
Plant species	
Betula lenta	Sweet Birch
Liriodendron tulipifera	Yellow-poplar
Quercus alba	White Oak
Quercus rubra	Red Oak
Quercus velutina	Black Oak
Quercus prinus	Chestnut Oak
Quercus palustris	Pin Oak
Robinea psuedo-acacia	Black Locust
Sassafras albidum	Sassafras
Tsuga Canadensis	Eastern Hemlock
Shrub species	
Rhododendron maximum	Great Rhododendron
Vacineum stamineum	Squaw Huckleberry
Vacineum palidum	Low Bush Blueberry
Clethera acuminate	Sweet Pepperberry
Herbaceous species	
Typha latifolia	Cattail
Scirpus cyperinus	Wool Grass
Juncus effuses	Common Rush
Eupatorium perfoliatum	Boneset
Viola sp.	Violet species
Impatiens capensis	Jewelweed
Spirea latifolia	Steeplebush
Solidago Canadensis	Canada Goldenrod
Onoclea sensibilis	Sensitive Fern
Thelypteris noveboracensis	New York Fern
Smilax rotundifolia	Green Brier
Andropogon virginica	Broomsedge
Carex sp. sedges	
Hypericum prolificum	Small-flowered St. John's Wort
Spagnum moss	Spagnum

Herbaceous Plants within Wetland Below Former Mill Site (former freshwater pond)	
Spirea latifolia	Cattail
Dewberry	
Dulichium arundinaceum	Three Way Sedge
Juncus effusus D.	Common Rush
Juncus subcaudatus	Typha latifolia D.
Scirpus atrovirens D.	
Scirpus expansus	
Steeplebush	Rubus vixalacer

2.2.5 Aquatic Resources

The North Carolina Natural Heritage Program ranks South Fork New River as a "Significant Aquatic Habitat." Surveys found State-listed threatened, endangered, or species of concern (2 fish, 2 mussels, and 1 aquatic snail) in South Fork New River. As noted above, Peak Creek and Little Peak Creek have been designated by the State as trout waters.

In April 1991, NCDENR's Biological Assessment Group performed an analysis of benthic macroinvertebrates in Peak Creek and Little Peak Creek. In addition, fish, water chemistry, and toxicological data were collected. Taxa richness was good-excellent in Peak Creek above the confluence with Ore Knob Branch, but was fair to poor as sampling progressed downstream. Taxa richness was also poor in Little Peak Creek just above its confluence with Peak Creek. Peak Creek was rated as fair-good with regard to fish communities above its confluence with Ore Knob Branch; however, that reach is impacted from agricultural runoff. No fish were found downstream of Ore Knob Branch in Peak Creek. The study concluded that life could not be sustained in Ore Knob Branch due to high metals concentration and low pH. Copper and aluminum concentrations in reaches of Peak Creek and Little Peak Creek affected by acid mine drainage result in acute toxicity: no resident macroinvertebrate fauna exists. Further study in 1996, conducted after reclamation efforts were completed at the tailings area (see section 2.4), resulted in essentially the same findings, and concluded there was "no improvement associated with mine reclamation activities" (Smith, 1996).

2.3 Site History

The Ore Knob mine site was host to intermittent mining of copper ore from the 1850s through 1962, with most mining occurring during two main periods of activity: 1873 to 1883 and 1957 to 1962. Mining and mineral-related activities at the site included mining, concentration, roasting, smelting, and waste management. Wastes from site operations are known to have contaminated surface water and sediment with acid and heavy metals.

2.3.1 Operational History

Prior to its recorded history, the Ore Knob mine was reported to have been first worked for iron "many years ago." The ore was found to have too much copper and sulfur and so was not good for wrought iron (Arthur, 1914).

The first known shaft was sunk in 1855 and at least some mining of "black ore" reportedly occurred from 1855-1856 (Lillard, undated). In 1859, four shafts were sunk on the lode, with a tunnel driven across the vein at the water level. The shafts were 90, 40, 30, and 40 feet deep, respectively (Currey, 1859). Ore was hauled 60 miles to Wytheville, Virginia, in oxen-drawn wagons (Arthur, 1914). The amount of ore mined is not known.

The mine was expanded and operated from 1873-1883. This operation sank seven new shafts and deepened the four existing shafts: two shafts were over 200 feet in depth and the others ranged from 60 to 250 feet (Roberts, 1957). Nine of these shafts are shown on Figure 2-2. At

least one, former shaft 2-S, remains partly open and is protected by a chain-link fence. The engine shaft was filled with stumps in the years since 2001.

Initially, the Ore Knob mine used the "Hunt and Douglas" process; it was the second mine in the United States to use this process (Eckman, 1994). This process involved drying, crushing to minus 0.025-inch, roasting in reverbatory furnaces, and concentrating using the Hunt and Douglas process (digestion in FeCl and NaCl) (Anonymous, 1876). Sometime before 1880, a change in the mineralogy of the ore made this process unsuccessful. The process was abandoned and a change was made to roasting under sheds, then smelting in two reducing furnaces and a refining furnace, using charcoal for fuel. This smelter works was said to be "…only a few hundred feet from the mine" (Egleston, 1881), most likely in or near what is now a semi-barren area in the northern portion of the 19th century operations area (see Figure 2-2). During the 1873-1883 phase of operations, 2,000,000 tons of ore were mined and 25,000,000 pounds of copper were recovered (Ballard & Clayton, 1948). Ore was piled on burning wood heaps and roasted for 5-7 weeks to drive off most sulfur. The roasted ore was then smelted with charcoal in shaft furnaces and refined to 99% pure copper. The mine "shipped manufactured sheet copper to Baltimore" and ore was "refined up to the Lake Superior grade." The operation "worked from 300 to 600 hands" (Arthur, 1914).

In 1896, the No. 2 shaft was sunk an additional 25-30 feet. In addition, "several carloads of hand-sorted slag were shipped from the most northerly slag dump." In 1913, a carload containing 72,739 pounds of slag and copper bottoms was shipped to New Jersey. The shipment contained 12.9 oz. of gold, 112 oz. of silver, and 14,672 pounds of copper. In 1917 or 1918, the mine was dewatered and a tunnel was driven under No. 4 shaft. Several cars of ore were shipped. In 1927, the tunnel under No. 4 shaft was reopened and some drifts were driven to the southwest. There is no information on ore that was mined at this time (Ballard & Clayton, 1948).

In 1942, the Bureau of Mines conducted an exploration program that involved drilling 20 holes totaling 4,925 linear feet. Ballard & Clayton (1948) state than an adit that connected to the No. 4 shaft was cleared during the Bureau of Mines investigation. Based on the report's figures, this was presumably the southern No. 4 (former shaft 4-S on Figure 2-2), but this is not stated in the report.

Nipissing Mines began a new exploration program in 1953. This included an electromagnetic survey and 38 drill holes totaling 27,752 feet. Ore was intercepted in 15 holes, with deepest ore indicated at 1,150 feet. The program delineated reserves of 1,330,300 tons of 3.0% copper and 14% sulfur (Roberts, 1957). This exploration program led to reopening of the mine in 1957 (Eckman, 1994).

In 1956, the main shaft (the "working shaft" on Figure 2-2) was sunk to a depth of 1,037 feet. The collar was concreted down to 55 feet, and six levels were opened for working at 280, 560, 700, 840, 980, and (possibly) 1120 feet. The mine was dewatered from the 980-foot level with one or more 300-gallon-per-minute (gpm) pumps (Roberts, 1957). Further information on dewatering (water quality, use or discharge of water, etc.) is not available. The headframe was 105 feet high, and skips dumped ore and waste directly into a partitioned steel bin with capacities

of 700 tons of ore and 150 tons of waste (Roberts, 1957). This ore bin is still standing (former coarse ore/waste bin on Figure 2-3) but the headframe has been removed. Ore was initially crushed in a jaw-type primary crusher and a secondary cone crusher and then ground in a ball mill. There were two 350 tons-per-day (tpd) concentration circuits, with ground ore distributed equally to the two circuits, each fed by a separate fine ore bin. Both fine ore bins remain on-site (one standing, one collapsed) (see Figure 2-3). Concentration took place in a three-stage flotation process, followed by thickening and filtering of concentrate. The plans anticipated 94 percent recovery of copper (Roberts, 1957). The combined 700 tpd circuits were found to be able to handle 940 tpd (Eckman, 1994). Initial plans were for an iron circuit to recover iron sulfide concentrate. This circuit was to take tailings from the copper circuit and float the iron sulfide. This unit was to act as a copper scavenger if the iron circuit was not included (it is not known if the iron circuit was ever installed, but the lack of mention in other documents suggests it was not). Only the foundation remains from the building where flotation took place. Concentrate was thickened and filtered before going to 300-ton and 400-ton bins in a concrete building (still standing), from which it was gravity-dumped into trucks underneath the bins. Concentrate was trucked 13 miles to Smethport, near West Jefferson, and shipped by rail to custom smelters (Roberts, 1957). Near the mill site, the company installed a 2,000 kva electrical substation (Eckman, 1994); the building remains standing (see Figure 2-3).

Water was pumped from a company-built dam through 6,200 feet of 8-inch pipe. About 600 gpm was pumped to two 80,000 gallon wood-stave storage tanks (Roberts, 1957; Anonymous, 1983). The foundations of the water tanks are located in a wooded area near the top of Ore Knob (near the engine shaft). The exact location of the water source is not known. The most likely location is the area behind a now-breached dam at the former freshwater pond shown on Figures 2-2 and 2-3, which certainly served as a storage pond; it also could have been taken from Peak Creek. Eckman (1994) reported that the company bought an acre of land, installed a dam on Peak Creek, and put in a 0.75-mile pipe back to the plant via the two water tanks.

Tailings were conveyed via pipeline to an impoundment located about 0.6 miles northwest of the mill site. The dam was constructed of tailings, using the upstream method of construction; it is possible that mine development rock was used for a "starter" dam. Water was conveyed from the pond at the upstream end of the impoundment through a 24-inch concrete pipe laid under the tailings. Production began on March 17, 1957, and ended in early December, 1962 (Eckman, 1994). In recent years, tailings from the eroding dam face have sloughed downward and now cover the outlet end of the pipe. This has apparently led to an increase in the water level within the impoundment and resulted in seepage emerging from more locations higher on the dam face.

Through the end of 1961, the Ore Knob deposit had produced over 35,000 tons of copper, 9,400 ounces of gold, and 145,000 ounces of silver (Kinkel, 1967). Kinkel also reports the average ore grade was 2.2 percent, which suggests that over 1,500,000 tons of tailings may have been generated.

2.3.2 Waste Generation and Management

The 19th century operation would have generated various types of slag and roasting wastes as well as minor amounts of mine development rock (waste rock). Fines from failed tests of

various concentration attempts (for example, the unsuccessful Hunt and Douglas process, as noted above) would also have been generated. Most of the slag/roasting wastes were likely processed during later operations, since significant amounts of copper would have remained in the material due to imperfect recovery. A partly barren area shown on Figure 2-2 contains waste materials up to several feet deep, with at least some of the material appearing to have been smelted or roasted. The larger part of this area has been graded to a relatively smooth surface. The hillside is heavily eroded and only partly vegetated with pines from this area for about 100 yards south (uphill) to the top of Ore Knob at the former engine shaft and shaft 1-N. There may be wastes in this uphill area, but heavy erosion has probably removed anything that was disposed there. The upper end of the tailings impoundment contains at least several dozen cubic yards of material that appears to be slightly coarser than the modern tailings material. This material lies several feet higher than the tailings pond and could be waste fines from the roasting operation.

The 1957-1962 operations on the former mill site would have generated large quantity of tailings (over 97 percent of the mined ore would have remained as tailings) and minor amounts of waste rock (minor compared to the tailings, but likely in the thousands of tons). About 20,000 cubic yards (±20 percent) of tailings were disposed in what is now a dry pile just north of the mill site (see Figures 2-2 and 2-3); this pile is mostly covered with tree stumps. Most tailings, about 720,000 cubic yards (±20 percent), were disposed in a 20-acre impoundment to the northeast of the mill site (see Figure 2-1). As noted previously, the dam was constructed of tailings using typical industry methods.

The mining operation would have used a variety of industrial materials typical of mid-20th century industrial operations. The mill would have used flotation reagents and other chemicals, possibly including cyanide for pyrite suppression. In addition, the former machine shop and the former electrical shop would have used various solvents, and PCBs may have been used in transformers or other purposes.

2.3.3 Regulatory History

There is essentially no regulatory history, since the site operated before modern environmental and mining programs were established. As noted previously, downstream surface waters have been listed under Clean Water Act §303 as being impaired; to date, the State has not evaluated loadings from the site or developed a source control plan.

2.4 Previous Site Investigations and Remediation

In response to acid mine drainage from the site, the North Carolina Department of Natural Resources completed a Clean Water Act §319 (nonpoint source program) project in 1992-1995 (NCDENR, 1994; Smith, 1996). This project concentrated on the tailings impoundment and an upstream tributary affected by acid drainage from mine adits. Phase 1 of the project was completed in 1992 and included (a) lowering the water level in the tailings pond, (b) revegetating the tailings area after placing sewage sludge and limestone, (c) reshaping and (unsuccessful) revegetation of the dam face, (d) sowing wetland-species seed below the dam and around the pond, and (e) constructing anoxic limestone drains (ALDs) at several seeps on a small tributary above the tailings pond (acid drainage reportedly emanated from several adits that daylighted

between the 19th century operations and the tailings pond). Phase 2 was completed in 1995 and included (a) ALDs for additional seeps, (b) another attempt (also unsuccessful) at vegetating the dam face, (c) regrading the tailings area and installing (unspecified) erosion control devices, and (d) planting more wetland species upstream of the tailings area. Results of the project included (a) initially successful vegetation of the tailings area, which has since been severely compromised, and (b) some improvement in pH at seeps treated with ALDs, but no improvements in water quality below the dam (Anonymous, undated).

In the late 1990s, the Huntington District of the U.S. Army Corps of Engineers and NCDENR developed a partial restoration program for the site under §206 of the Water Resources Development Act of 1996 (PL 104-303). Their Detailed Project Report and Environmental Assessment (USACE-NCDENR, 2004) identified and evaluated several alternative approaches to improving conditions at the tailings area and assessed their relative environmental impacts. This program has not been fully funded or implemented.

Results from previously completed studies at the Ore Knob former mine site were reviewed to identify those data that could be used to address the principal study questions presented in section 3.1. Previous investigations have sampled at several locations on and near the tailings impoundment, downstream of the tailings impoundment, and on the former mill site. Currently available data include only the approximate sampling locations and the analytical results without details of sampling or information on laboratory analytical methods. The results indicated that vicinity waters are contaminated by heavy metals, leading to the State's determination that Little Peak Creek, Peak Creek, and Ore Knob Branch are impaired.

As noted in section 2.2.3, the Corps of Engineers sampled water from a few nearby wells in 2000 and analyzed the samples for metals. Currently available data include only the approximate locations and analytical results without details of sampling or analytical methods. Most metals were well under applicable primary drinking water standards, although information regarding antimony, beryllium, and thallium was inconclusive because analytical detection limits for these constituents were above drinking water standards. In addition, aluminum, iron, manganese, sulfate, and pH exceeded their respective secondary drinking water standards (USACE-NCDENR, 2004). It is unknown if the elevated levels are due to mining operations.

3.0 EXPANDED SITE INSPECTION ACTIVITIES

3.1 Site Investigations

In July 2007, EPA mobilized to the site to collect data for the integrated site assessment and HRS evaluation. Site activities were completed by EPA's Science and Ecosystem Support Division (SESD) and EPA contractor Black & Veatch. The goal of the investigation activities was to answer two principal study questions outlined in the *Final Sampling and Analysis Plan for Integrated Site Assessment of the Ore Knob Former Mine Site*, dated July 6, 2007 (B&V, 2007):

Question 1: What is the condition of the pipe that conveys water from above the tailings impoundment underneath the tailings to the outlet at the dam?

Question 2: What hazardous substances have been, or potentially can be, released from the site?

Investigation of the tailings pipe (described in previous sections) is discussed in section 3.1.1. Investigations conducted to determine the sources and pathways of contaminants for all areas of the site are discussed in sections 3.1.2 (19th century operations), 3.1.3 (1950s mine and mill site), 3.1.4 (tailings impoundment), 3.1.5 (downstream receiving waters), and 3.1.6 (residential drinking water wells). A summary of samples collected by field investigation and environmental medium is shown in Table 3-1. Sampling locations for each field investigation are discussed below.

3.1.1 Tailings Impoundment Pipe

The lower end of the pipe may have collapsed, and certainly is blocked with eroded tailings. A strong upwelling of water was noted before and during the investigation at the base of the tailings dam (at station OK011 shown on Figure 3-4). The conduit from which water emanated was within an approximately 3-foot diameter circular depression. Although the total depth of the conduit is unknown, it extends to at least 4 feet below ground surface (a pole placed into the depression did not encounter resistance).

It is still not known if the full length of pipe is open or if it is partly or completely blocked. If the pipe is or becomes completely blocked for any length of time, water would rise in the main body of the tailings. The result could be an increase in water emanating from the face of the dam, and possibly partial or full failure of the dam. Besides the "conduit" from which water emerged, as described above, at least three major seeps currently emanate from the face of the dam, at the base of the upper slope (stations OK009, OK010, and OK012; see Figure 3-4). These seeps are located approximately 42-48 feet below the dam crest.

Preliminary reconnaissance conducted by EPA in December 2006 and May 2007, prior to ESI activities, located the pipe inlet in the southwest portion of the tailings impoundment (near the location of station OK006; see Figure 3-4). At that time, flow from the tributary entering the southwest corner of the tailings impoundment was entering the pipe. The pipe could not be further investigated during ESI activities in July 2007, however, due to the presence of a significant pond of water over the pipe inlet. EPA attempted to find the location of the pipe inlet

by boat, but could not definitively locate it within murky, sediment-laden water. The pipe must have been at least partly blocked to cause the water to rise; that blockage had apparently cleared and the water was flowing again by October 2007 (J. Bateson, North Carolina Division of Water Quality, personal communication, February 2008).

3.1.2 Sources and Pathways in the 19th Century Operations Area

The objectives of sampling wastes and soils in the area of 19th century operations were to:

- Define the area where operations took place and where wastes were deposited, including the approximate extent of wastes remaining from these operations and the extent of contaminated soils.

- Identify the locations of old shafts and evaluate whether there are safety concerns that present a hazard to investigators or the public.

- Determine whether soils in small drainages that convey run-off from the area where roasting and smelting took place are contaminated by metals or semi-volatile organic compounds.

- Determine whether soils in nearby residential yards are contaminated.

In July 2007, EPA collected surface soil samples from 12 locations in and around the area where 19th century mining and ore processing took place; these included two background samples and one sample from a residential yard. Sampling also targeted areas where mine-related wastes were thought to have been stored on the surface (most of which have since been removed) and small drainages that convey run-off from these areas. Waste materials were collected at 9 such locations. Figure 3-2 shows and Table 3-5 describes the locations at which all of these samples were collected. Note that the areas identified as historic features on Figures 2-2 and 3-2 were identified as areas where wastes were found by USGS in a 1942 investigation (Ballard & Clayton, 1948).

3.1.3 Sources and Pathways at the 1950s Mine and Mill Site

The objectives of soil and waste sampling on and near the 1950s mine and mill site were to:

- Determine whether wastes and soils in various areas of the former mill site and tailings area are contaminated.

- Determine whether soils in small drainages between the mill site/tailings area and the freshwater pond are contaminated by heavy metals or semi-volatile organic compounds.

- Determine whether soil in the wetlands area of the freshwater pond is contaminated.

- Determine whether soils in nearby residential yards are contaminated.

- Define the concentrations of contaminants in soil unaffected by the former mill site.

In July 2007, EPA collected surface soil samples from 22 locations in and around the former mill site. Of these samples, nine were collected on and around foundations of the former ball mill, flotation plant, truck loading bins, fine ore bins, conveyor system and crusher house, electric shop, machine shop, and the still-standing transformer building (see Figure 2-3 for the identification of current and historic structures). In addition, one sample classified as sediment was collected from within the foundation of the conveyor system. Another four soil samples were collected from small drainage pathways where run-off flows from the elevated mill site and tailings area toward the former freshwater pond. One sample was collected from the wetland that lies within the former pond. In addition, three samples of soil unaffected by mine operations and three soil samples from nearby residential yards were collected. Waste samples were collected from the tailings deposit (three samples) and from under the former ore bins (two samples). Figure 3-3 shows and Table 3-5 describes the locations of all of the samples collected.

3.1.4 Sources of Contamination at the Tailings Impoundment

The objectives of soil and waste sampling at and near the tailings impoundment were to:

- Determine the extent to which tailings are contaminated by heavy metals, and whether tailings in the upper end of the impoundment are contaminated by semi-volatile organic compounds.

- Characterize the acid-generating potential of the tailings.

- Determine the concentrations of contaminants in soil unaffected by the tailings.

In July 2007, EPA collected tailings (waste) samples from eight locations on the tailings impoundment; these included five locations from the top surface of the impoundment and three locations from the tailings dam face. Two soil samples were collected uphill away from the tailings: one to the south and another to the west. Figure 3-4 shows and Table 3-5 describes the locations of these samples.

Sample locations were selected to characterize contaminant levels in tailings of different sizes (coarser nearer the dam and finer toward the upper end of the impoundment) and ages (older at higher locations on the dam, older nearer the bottom of the dam). All waste samples on the tailings impoundment top surface were discrete samples; four were collected from a depth range of 0-12 or 0-18 inches, while one was collected from 2.5-2.8 feet below ground surface. The samples were collected to assess variability with depth, especially between materials above and below the oxidized zone. The four shallow samples incorporated both oxidized and reduced tailings, while the sample collected at depth (OK352, see Figure 3-4) consisted of only reduced material[1].

[1] In most cases, there was a more or less sharp contact between yellowish-brown (10YR 5/4 to 5/8) fine sand oxidized tailings and gray-black (N1-N2) sandy silt reduced tailings.

3.1.5 Releases to Downstream Receiving Waters

The objectives of surface water, sediment, and floodplain soil investigations of downstream receiving areas were to:

- Identify which contaminants are being released to downstream surface waters in Ore Knob Branch, Little Peak Creek, Peak Creek, and South Fork New River under baseflow conditions.
- Quantify contaminant loadings in each of these streams.
- Identify major tributaries and perimeter seeps/springs that contribute water to the tailings impoundment area.
- Identify approximate background concentrations in surface waters unaffected by the site in Peak Creek and South Fork New River.
- Determine whether sediments in Ore Knob Branch, Little Peak Creek, Peak Creek, and South Fork New River are contaminated.
- Determine whether floodplain soils at the mouths of Ore Knob Branch, Little Peak Creek, and Peak Creek are contaminated.
- Determine whether sediment in the former freshwater pond is contaminated.

Samples of Surface Water, Sediment, and Floodplain Soil. In July 2007, EPA collected samples of surface water, sediment, and floodplain soil from streams that receive drainage from the site, as well as surface water and sediment in streams upstream of site influence and in the tailings impoundment area. Samples were collected at the following locations:

- Ore Knob Branch above and below the tailings impoundment, and just above its confluence with Peak Creek (surface water and sediment), including seeps at the "headwaters" of Ore Knob Branch near the adits. The tributary that seasonally flows into the impoundment directly from the south was not flowing at the time of the sampling and so was not sampled.
- Seeps emanating from the face of the tailings impoundment dam (surface water only).
- Three apparently permanent ponds on the tailings impoundment (surface water only).
- Little Peak Creek from its headwaters at the 1950s mine and mill site to its confluence with Peak Creek (surface water and sediment).
- Peak Creek above and below the confluence with Ore Knob Branch, and above and below the confluence with Little Peak Creek (surface water and sediment).

- South Fork New River above and below the confluence with Peak Creek (surface water and sediment).

- Floodplain soil samples on Ore Knob Branch downstream of the tailings impoundment, downstream of the former freshwater pond on Little Peak Creek, and at the mouths of Ore Knob Branch, Little Peak Creek, and Peak Creek.

Surface Water (streams). Samples were collected at 15 locations in surface waters downstream of site study areas (shown on Figure 3-1 and described in Table 3-2). A single sample was collected at 11 locations and multiple samples were collected along four transects, including two transects crossing Peak Creek and two transects crossing South Fork New River. These transects were located on larger streams to intercept contaminated water from tributaries draining the Ore Knob former mine site; contaminated water may remain separate for some distance downstream of the confluence with the larger stream. The number of samples and specific locations along three of the four transects were determined in the field after flow measurements were taken (as described below). An additional surface water sample was collected at the suspected outlet of the pipe conveying water under the tailings impoundment at the base of the dam (OK011) (shown on Figure 3-2 and described in Table 3-2).

Seeps. Surface water samples were collected from two seeps (OK003 and OK004) near the headwaters of the small perennial tributary that enters the southwest corner of the tailings impoundment (noted as the headwaters of Ore Knob Branch), between the 19th century operations area and the tailings impoundment (shown on Figure 3-1 and described in Table 3-2). Sediment was also collected near the outlet of one of these seeps (OK004). Surface water samples were collected from three seeps emanating from the face of the tailings impoundment dam (OK009, OK010, and OK012).

Sediment. Sediment samples were collected at 15 locations to correspond with surface water sample locations (shown on Figure 3-1 and described in Table 3-2). A single sample from near the stream centerline was collected at 11 of the locations and multiple samples were collected on the 4 transects noted above. Three sediment samples were collected along three of the transects: left bank, right bank, and stream center. Two samples were collected along the second transect crossing South Fork New River downstream of the Peak Creek confluence (OK026): one from the right bank and one from the river center.

Floodplain soils. A total of eight floodplain soil samples were collected at five locations (shown on Figure 3-1 and described in Table 3-3): on the right bank of Ore Knob Branch below the tailings impoundment, on both banks of Ore Knob Branch at its confluence with Peak Creek, below the former freshwater pond on Little Peak Creek, on both banks of Little Peak Creek at its confluence with Peak Creek, and on both banks of Peak Creek at its confluence with South Fork New River.

Stream Discharge Measurements. EPA measured stream flow in July 2007 at nine locations (shown on Figure 3-1) to allow calculation of contaminant loadings in downstream waters that may be attributed to the Ore Knob former mine site, and to allow the number of samples in three of the four multi-sample cross-sections to be determined (stations OK016, OK018, and OK019). Flow measurements were not taken at the multi-sample cross-section located at station OK026

(South Fork New River downstream of OK019). Locations where flow measurements were taken include:

- Below the tailings impoundment on Ore Knob Branch (OK013).
- Ore Knob Branch just upstream of the confluence with Peak Creek (OK014).
- Peak Creek just upstream and downstream of the confluence with Ore Knob Branch (OK015 and OK16, respectively).
- Peak Creek just upstream and downstream of the confluence with Little Peak Creek (OK017 and OK018, respectively).
- Little Peak Creek at the breach in the dam below the former freshwater pond (OK024).
- Little Peak Creek just upstream of the confluence with Peak Creek (OK021).
- South Fork New River just downstream of the confluence with Peak Creek (OK019).

3.1.6 Contamination of Residential Drinking Water Wells

The objective of sampling water from drinking water wells was to determine whether drinking water is contaminated by heavy metals.

In July 2007, EPA collected drinking water quality samples from seven private wells on or near the site; five of the wells are located between the 19th century operations area and the 1950s mine and mill site, one is south of the 19th century operations area, and one is at the Roan Creek Church about 1.5 miles southwest of the site on highway 88 (see Figure 3-5 for locations and Table 3-6 for descriptions).

As noted in section 2.2.3, drinking water samples were collected from up to five private wells in 2000 (information on the specific residences sampled is not available), with results for various contaminants being negative or indeterminate. Re-sampling as part of the ESI was conducted to determine whether wells in the vicinity of the site may be contaminated with metals.

3.2 Sampling Methods and Measurements

As shown in Table 3-1, a total of 134 primary samples were collected on or in the vicinity of the Ore Knob former mine site. Sampling methods and measurements are described below for each media of sample collected, including surface water, sediment, soil, waste, and drinking water. All sampling was conducted in accordance with SESD operating procedures; specific procedures are noted in the following discussion. Collected sample volumes were consistent with those outlined in B&V (2007) Appendix A Table A-7 *Recommended Sample Volumes, Containers, Preservatives, and Holding Times.*

Surface Water. Surface water samples were collected using methods consistent with SESD operating procedure SESDPROC-201-R0. In general, samples were collected using direct submersion of sample containers to a depth representing about 60 percent of the distance from the water surface to the streambed while facing upstream (this was the same depth that flow velocity measurements were taken at each increment, as described in section 3.1.2). Samples for dissolved metals were collected by direct submersion of an unused sample container without preservative; the sample was then pumped by peristaltic at a low rate through a new 0.45 µm filter into a pre-preserved container. Filters were purged with two to three filter volumes of sample water prior to collecting the sample. Field measurements of pH, specific conductance, temperature, dissolved oxygen, and turbidity were made and recorded at the time of sampling according to SESD operating procedures SESDPROC-100-R0, SESDPROC-101-R0, SESDPROC-102-R0, SESDPROC-106-R0, and SESDPROC-103-R0, respectively.

Data sondes used to collect field measurements were calibrated daily according to SESD operating procedure SESDPROC-111-R0. However, there was some concern over the accuracy of pH readings on July 18, 2007, when a pH of 9.05 was measured from the central seep in the tailings impoundment dam face (OK010). A repeat measurement was made the following day, resulting in a pH of 6.63; this second reading was verified with litmus paper. Other field parameters (e.g. specific conductance, temperature, and dissolved oxygen) did not vary significantly between readings. Data sonde calibration logs for July 18, 2007 (see Appendix B) indicate that pH increased up to 0.17 log units over the course of the day. End of day readings varied from the standards by >0.1 log units for pH 4.0 and 7.0 buffer solutions. Higher than expected pH readings were also encountered in the South Fork New River downstream of the confluence with Peak Creek (OK019 and OK026). Readings at these stations were >1 log unit higher than at the stations upstream of the Peak Creek confluence (OK020) and the station furthest downstream of the confluence (OK027). Repeat measurements were not made at these locations; therefore, the accuracy of the pH readings cannot be determined.

Water velocities were measured using methods described in SESD operating procedure SESDPROC-501-R0, which follows the principles of Rantz et al. (1982). All measurements were made with a Sontek acoustic doppler velocimeter (ADV®) using the procedures described in Sontek (2002). Table 3-4 provides a summary of discharge calculations at each of the nine locations where flow was measured.

Sediment. Sediment samples were collected using methods described in SESD operating procedure SESDPROC-200-R0. Techniques used included coring into the sediment substrate using stainless steel hand tools or collecting sediment from the substrate using stainless steel scoops or spoons. Plant debris and large stones not an integral part of the sediment media were removed. Sediments were thoroughly homogenized in clean glass pans prior to being placed into the appropriate sample container. Sample aliquots analyzed for volatile organic compounds (VOCs) (stations OK021 and OK024) were removed from the sample prior to homogenization using EnCore® sampling devices.

Soil and Waste. The majority of soil samples were collected from the upper 6-12 inches (from ground surface) using stainless steel hand tools (e.g. augers, spoons, and scoops). The sampling depth for waste samples was more variable, dependent on the depth interval at which the waste

material was encountered. Sampling depths for all soil and waste samples are listed in Tables A.1-1 through A.1-5, and A.2-1 of Appendix A. All soil and waste materials were collected as discrete samples using methods consistent with SESD operation procedures SESDPROC-300-R0 and SESDPROC-302-R0.

Plant debris and large stones not an integral part of the soil or waste media were removed. Soil/waste materials were thoroughly homogenized in clean glass pans prior to being placed into the appropriate sample container. Sample aliquots analyzed for VOCs (stations OK400, OK401, OK402, OK408, OK414, OK416, OK419, and OK425) were removed from the sample prior to homogenization using EnCore® sampling devices.

Residential Well Drinking Water. Drinking water samples were collected from several residential properties in the vicinity of the site. Samples were collected from spigots on the outside of the residence or from the spring/well pumphouse directly into sampling containers using methods consistent with SESD operating procedure SESDPROC-305-R0.

Field and Laboratory QC Samples. The following types of quality control (QC) samples were collected and shipped to the appropriate EPA or subcontractor laboratory for analysis:

- Field duplicates - Field duplicate samples were collected at a rate of approximately one duplicate per 13 field samples (10 duplicates out of 134 primary samples). Field duplicates were collected for all sampled media and were collected, handled, and treated in a manner identical to that of the primary field sample.

- Equipment rinsate blanks - Equipment rinsate blanks were prepared and submitted for decontaminated equipment to check the thoroughness of the decontamination process. These blanks were prepared by pouring reagent-grade analyte-free water over decontaminated sampling equipment used to collect sediment, soil, and waste samples. Rinse water was transferred to sample containers and submitted for analysis. One rinsate blank was prepared for each sample medium.

- Filter rinsate blanks - Filter rinsate blanks were prepared and submitted to check the cleanliness of filters used in water quality sampling. These blanks were prepared by pumping reagent-grade analyte-free water through a new filter and into a sample container; similar to field sampling protocol, two to three filter volumes of water was purged through the filter prior to sample collection. One filter rinsate blank sample was collected.

- Preservative blanks - Preservative blanks were prepared to assess whether the sample preservatives contain contaminants. The blanks were prepared in the field by pouring reagent-grade analyte-free water into a pre-preserved sample container. One preservative blank was submitted for each type of preservative used during the sampling event.

- Temperature blanks - A temperature blank was included with each cooler so the lab could determine cooler temperature upon receipt. The blank was prepared in the field by filling a sample container with tap or analyte-free water.

- Trip blanks - A trip blank was included in every cooler in which samples analyzed for volatile organic compounds were shipped. The trip blank was provided by the laboratory or SESD, transported to the field, and then returned to the lab with the VOC samples.

3.3 Laboratory Analysis

Samples were analyzed by the EPA Region 4 analytical lab (SESD Athens), CLP-participant labs contracted by EPA, and either GEL Laboratories or SVL Laboratories subcontracted by Black & Veatch. Analyses conducted in the Athens lab were done in accordance with the *Analytical Support Branch Laboratory Operations and Quality Assurance Manual.* Analyses conducted by CLP-participant labs were done in accordance with the contractual requirements of ILM05.3 or ILM06.X (inorganic constituents; EPA 2004b) and OLM04.3 (organic constituents; EPA 2003a).

Analyses conducted by GEL Laboratories followed methods outlined in SW-846 (EPA, 2000). Under these protocols, metals analyses were conducted using inductively coupled plasma-emission spectrometry (ICP-ES; EPA method 6010B), atomic absorption (EPA method 7000 series), and inductively-coupled plasma-mass spectrometry (ICP-MS; EPA method 6020). Organic compounds were analyzed using gas chromatography (GC; EPA method 8081 (pesticides) and EPA method 8082A (PCB aroclors)) and gas chromatography/mass spectrometry (GC/MS; EPA method 8260B (volatile organic compounds) and 8270C (semivolatile organic compounds)). Dioxins and furans were analyzed using high resolution gas chromatography/high resolution mass spectrometry (HRGC/HRMS; DLM02.0).

All VOC, SVOC, pesticide, and PCB results are expressed in ¸ug/L for water samples and ¸ug/kg (dry weight) for soil and sediment samples. Metals are expressed in ¸ug/L for water samples and mg/kg (dry weight) for soil and sediment samples. Other project parameters are expressed in terms of mg/L for water samples, mg/kg for soil and sediment samples, or the consistent unit of measure for the parameter.

Data Review and Verification. Data review and verification of analyses by EPA and CLP labs were conducted by EPA. Black & Veatch reviewed and verified analyses conducted by GEL and SVL. Verification included checking laboratory receipt and chain-of-custody records, field and laboratory sample log-in documents, detection limits in comparison to required reporting limits, parameters analyzed for each sample, case narratives, and other components of the data package such as extraction/digestion logs, analytical sequence logs, and calibration information to verify the accuracy and completeness of this information. Discrepancies identified during this process are documented in the data validation or laboratory case narrative.

Data Validation Methods. Analytical data generated by EPA's regional laboratory was validated by EPA in accordance with Region 4's *Analytical Support Branch Laboratory Operations and Quality Assurance Manual.* Analytical data generated by CLP laboratories was validated by EPA using the *National Functional Guidelines for Inorganic Data Review* (EPA, 2004a), the *National Functional Guidelines for Organic Data Review* (EPA, 1999a) and Region 4's Data Validation SOP for Contract Laboratory Program Routine Analytical Services (EPA, 1999b). Analytical data generated by GEL was validated by Black & Veatch using the *National*

Functional Guidelines for Inorganic Data Review (EPA, 2004a) and the *National Functional Guidelines for Organic Data Review* (EPA, 1999a). Nonstandard analyses conducted by SVL, including paste pH, acid-base accounting, and TCLP metals, were validated in accordance with the appropriate method-specific technical criteria and the validation documents noted above.

As part of the data validation process, data qualifier flags were assigned to data points deemed to be noncompliant with method criteria or the validation guidelines. Depending upon the type and magnitude of non-compliance, the data were accepted or rejected. Rejected data points were qualified as unusable and assigned an "R" flag. These results were then gleaned from the final data set. Data deemed acceptable but problematic were qualified as estimated and assigned a "J" flag (depending on the type and magnitude of noncompliance). Estimated data is considered usable for its intended purpose in this report and is included in the final data set. The data flags (with their definitions) used during the validation process are located in the *National Functional Guidelines* and ASB's *Laboratory Operations and Quality Assurance Manual*. Upon completion of the verification and validation process, the data underwent a final review for inclusion (or exclusion) in the final data set.

4.0 DEVIATIONS FROM THE SAMPLING AND ANALYSIS PLAN

Several sampling locations or station IDs established during the field event deviated from those in the approved sampling and analysis plan (SAP) (B&V, 2007). All deviations were made with the approval of B&V and SESD field team leaders.

As specified in the SAP, samples were to be collected for surface water, sediment, pore water, soil, waste, and drinking water. Due to time constraints, B&V and SESD decided in the field to abandon all sediment porewater sampling. Sediment porewater sampling will be addressed in future site investigations. Instead, ESI field efforts focused on the quality completion of other higher priority tasks, including the sampling of surface water, sediment, soil, waste, and drinking water, as well as flow measurement to assist with the calculation of contaminant loadings. Other minor deviations from the SAP are described below by field study area.

19th Century Operations Area. Samples were not collected from residential yard stations OK506, OK507, OK508, and OK509 in the vicinity of the 19th century operations area. The samples were not collected due to miscommunication between field crews and time constraints. One sample was collected from a residential yard about 630 feet southwest of the former roaster area (OK500).

Original station OK516, located in a drainage feature north of the waste area, was instead given the station name OK554 (see Figure 3-2); the location is consistent with the SAP. Field decisions were made to collect samples from locations OK511 and OK512 in the southern portion of the historic mining area; original station locations included the southeastern tip and the east-central margin of the historic mining area, respectively. Station OK553 was originally planned for the northwestern portion of the roaster area, but it was decided in the field that it would be moved to a location about 200 feet southeast of the roaster area.

Provisional station OK520 was used to sample soil from the northwest portion of the historic mining area. Station locations to be determined in the field were located as follows: OK555, northwest of the historic mining area; OK556, southeast of the adits; and OK557, southeast of the roaster area (see Figure 3-2). These locations are roughly consistent with those described in the SAP. Field decisions by B&V and SESD field team leaders determined the locations of provisional samples and those locations not specified prior to field activities.

The planned field duplicate sample of waste medium was not collected in the 19th century operations area. Instead, two field duplicates of soil material were collected. This discrepancy occurred because some waste samples were labeled as soil after collection. One of the field duplicates is a soil sample from the historic smelter area, the other is material from a waste rock dump north of the engine shaft.

1950s Mine and Mill Site. A sample planned for the northeastern boundary of the former mill site (OK420) was not used (field decision). The field team decided to use station OK413, originally planned for the assay office in the southeastern portion of the former mill site, to collect a soil sample within the ball mill foundation. An additional sample collected within the

ball mill foundation (OK418) was moved from its original location in the mill warehouse foundation (see Figure 3-3).

The field team decided to use provisional station OK427 to collect a sediment sample underneath the conveyor system foundation adjacent to the crusher house foundation. The sample was collected less than 10 feet north of a soil sample from the conveyor system foundation (OK415) (see Figure 3-3).

Tailings Impoundment. Due to time constraints, samples were not collected from surface water and sediment stations OK028 and OK029, planned for drainages that enter the tailings impoundment from the northeast and southeast, respectively. Surface water samples were collected from the apparently permanent ponds in these corners of the tailings impoundment (stations OK008 and OK005, respectively).

As a result of the field decision to move station OK013 (described below), station OK012 was relocated from Ore Knob Branch to the easternmost seep emanating from the face of the tailings dam (sediment was not collected). Stations OK009 and OK010 represent the other two seeps emanating from the dam face, while station OK011 is located at the suspected outlet of the pipe conveying water under the tailings impoundment (at the base of the tailings dam) (see Figure 3-2).

Downstream Receiving Waters. Samples were not collected from station OK030 in the vicinity of the 1950s mine and mill site. Sampling at this location was contingent on finding a drainageway on the western margin of the tailings area north of the former mill site.

Two surface water and sediment stations were planned for the tributary that enters the southwest corner of the tailings impoundment: upstream of the tailings (OK003) and just within the tailings (OK004). These stations were renamed in the field to OK001 (taken from upstream of the tailings impoundment) and OK002 (taken within the tailings). Two stations were also planned for a tributary entering the southwest corner of the tailings impoundment from the west. After determining that this drainage was dry, samples were instead collected from two seeps near the adits northeast of the 19th century mining area; these seeps (stations OK003 and OK004) contribute to the "headwaters" of the small tributary entering the southwest corner of the tailings impoundment (see Figure 3-2). The substrate of seep OK003 is limestone-lined and the water surface had a milky white film at the time of sample collection; due to the rocky substrate, only a surface water sample was collected from this location. The substrate of seep OK004 is armored with precipitate; both surface water and sediment samples were collected from this location.

The field team decided to move station OK013, originally planned for Ore Knob Branch midway between the tailings impoundment and Peak Creek, upstream to a new location on Ore Knob Branch about 220 feet downstream of the culvert pipe where water from the tailings dam sediment pond is focused into a channelized creek. Flow measurements were also made at this location.

Surface water and sediment samples were collected by multiple field crews, resulting in the collection of more than the necessary number of field duplicate samples. Additional field

duplicate samples were collected for surface water (three instead of two) and sediment (two instead of one) from downstream receiving waters, including Ore Knob Branch and South Fork New River.

Residential Drinking Water. The SAP provided plans for the sampling of up to five private wells and/or springs used for drinking water near the site. During field activities, EPA collected drinking water quality samples from seven private wells on or near the site; five of the wells are located between the 19th century operations area and the 1950s mine and mill site, one is south of the 19th century operations area, and one is off-site at the Roan Creek Church about 1.5 miles southwest of the site on highway 88 (see Figure 3-5).

5.0 SAMPLING RESULTS

5.1 Background Soil Samples

Six soil samples were collected in areas with little evidence of recent or historic disturbance to determine baseline soil composition in the Ore Knob area. Samples were collected from three locations around the 19th century mine and smelter and three locations around the 1950s mill site. Sample sites included locations along the east-northeast-striking mineralized trend at Ore Knob as indicated by the orientation of mine shafts (Figure 2-2).

Background soil samples consist primarily of moderate brown to moderate yellowish brown silty sand with fragments of schist and quartzite. Samples were collected either from 0 to 6 inches or 0 to 12 inches depth. All samples were collected using hand augers.

All background soil samples were submitted for analysis of total metals and semi-volatile organic compounds (SVOC). In addition, four of the six samples were analyzed for polychlorinated biphenyl (PCB) aroclors and the three samples collected from the 1950s mill site were additionally analyzed for volatile organic compounds (VOC). Results for antimony were rejected in four samples and those for arsenic were rejected in three samples during data validation. In addition, results for PCB aroclors were rejected in one sample.

Most soil samples contain low concentrations of metals and as a group, they exhibit a restricted compositional range. Sample OK502, collected from along the eastern margin of the mineralized trend contained concentrations of copper (79J mg/kg) and iron (90,000J mg/kg) slightly higher than those of the other five samples (Cu range from 16J to 43J mg/kg; Fe range from 13,000J to 22,000J mg/kg). PCB aroclors were not detected in any of the background soils and benzaldehyde was the only SVOC constituent detected in any samples (at station OK401 on the southwest side of the former mill site electrical substation). Benzaldehyde, which was measured at a concentration of 120J mg/kg, is a possible lab contaminant.

Background soil samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2007) and EPA Region 4 ecological risk values for soil (EPA, 2001). Results of these comparisons are shown in Table 5-1. In addition, results for these samples were averaged together and used for comparison to other soil and solid waste samples in the Ore Knob area (Table 5-2).

The three samples for which acceptable arsenic results were received exceeded the human health screening value arsenic (cancer-risk value only) for residential soil and outdoor industrial worker soil (Table 5-1). In addition, one sample, collected from the eastern end of the mineralized zone exceeded the residential soil screening value for iron. Several heavy molecular weight polycyclic aromatic hydrocarbon (PAH) compounds were reported as non-detected at detection limits exceeding screening values and could not be evaluated.

Most background soil samples exceeded ecological risk soils screening values for aluminum, total chromium, iron, manganese, mercury, and vanadium (Table 5-1). A few samples

additionally exceeded screening values for beryllium, copper, selenium, and zinc. Several light and heavy molecular weight PAH compounds were reported as non-detected at detection limits exceeding the ecological risk screening values and could not be evaluated.

5.2 19th Century Operations Area

5.2.1 Waste Rock and Slag Dumps

Waste rock samples were collected from three dumps adjacent to the former Engine shaft (three samples plus a field duplicate), from a dump adjacent to the former 2-S shaft, and from a dump adjacent to former adits. Samples of pot slag were collected from two locations on a slag dump on the north side of the historic mill. Locations for these samples are shown on Figure 3-2. Samples were collected from 0 to 12 inches depth using hand augers, with the exception of one slag sample which was collected from the surface of the slag dump.

One waste rock sample was collected from a dump on the south side of the former Engine shaft and two samples were collected from dumps on the north side of the shaft. All dumps were unvegetated and their barren surfaces subject to erosion and gullying. The dump samples consisted of fragments of schist, quartz, and sulfide-rich ore to about 6 inches diameter in a moderate yellowish brown to moderate reddish brown, silty to locally clayey matrix. Quartz and schist were typically stained yellow by iron and the surfaces of ore pieces, which were oxidized to a rusty black color, commonly have white secondary mineral salts. A sulfur odor was noted when collecting the sample from the south dump.

One waste rock sample was collected from a small pile adjacent to the former 2-S shaft. This pile was partly vegetated and consisted mostly of blocks of angular schist to about 10 inches diameter enclosed in a matrix of moderate yellowish brown silty sand. Fragments of ore were not observed in this pile and few clasts had visible iron staining.

One waste rock sample was collected from a large, barren pile in the area of the former adits. This dump consisted of sulfide-rich material similar to that at the former Engine shaft, and some fragments of oxidized ore had a distinct sulfur odor.

Two samples were collected from a moderately large, barren slag dump north of the mill. Slag consisted of broken fragments of glassy to very finely crystalline slag formed by tapping molten slag from the furnace into small (2 to 3 gallon) pots for disposal. Slag occurs as very dark bluish gray to black, dense to poorly vesicular, angular fragments with minor blebs of brassy sulfide minerals. One sample consisted of coarse fragments (1 inch or larger) collected from the surface of the dump, whereas the other sample consisted of medium to coarse sand-sized slag grains with gravel-sized pieces of slag.

All waste rock and slag samples were analyzed for total metals and acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential). Four waste rock samples and one slag sample were additionally analyzed for polychlorinated biphenyl (PCB) and semi-volatile organic compounds (SVOC). The coarse slag sample was additionally leached for metals using the Toxicity Characteristic Leaching Procedure (TCLP; EPA Method 1311). Analytical results

are presented in Table A.1-2 of Appendix A. As shown in the table, analytical results for antimony were rejected in 4 of 5 waste rock samples, arsenic results were rejected in 3 of 5 waste rock samples, and thallium results were rejected in 2 of 5 waste rock samples. In addition, analytical results for PCB aroclors were rejected in all waste rock dump samples. One of the slag samples was analyzed for an abbreviated list of metals.

Waste rock dump samples are characterized by high concentrations of copper (270J to 2,600J mg/kg) and iron (21,000J to 270,000J mg/kg) and low to moderate concentrations of aluminum (1,300 to 82,000 mg/kg), chromium (3.8 to 77 mg/kg), cobalt (6.7 to 28 mg/kg), manganese (110 to 780 mg/kg), selenium (4.1UJ to 37J mg/kg), vanadium (18 to 130 mg/kg), and zinc (47J to 410J mg/kg). In general, samples taken from the dumps around the former Engine shaft have the highest metal concentrations, while the dump adjacent to the former 2-S shaft has among the lowest metal concentrations. Compositional variability within individual dumps is high, as indicated by the large differences in composition between the primary and field duplicate samples taken from one of the former Engine shaft dumps (see Table A.1-2 of Appendix A). Some, if not most, of the variability displayed by these samples could likely be eliminated by collecting and preparing a larger sample volume. Although most dumps are moderately acid-generating, waste rock samples vary from mildly to strongly acid-generating, with total sulfur contents of 0.08 to 7.4 percent, net neutralizing potential of -0.6 to -74 tons $CaCO_3$ equivalent per kiloton of material, and paste pH of 1.08 to 4.78 s.u.. A variety of light and heavy molecular weight polycyclic aromatic hydrocarbon (PAH) compounds were detected in the sample collected adjacent to the former 2-S shaft but were below detection in all other waste rock samples.

Slag samples have high concentrations of cobalt (134 and 390 mg/kg), copper (4,600 and 14,000J mg/kg), iron (350,000J mg/kg), manganese (7,100 mg/kg), and zinc (3,900 mg/kg) and low to moderate concentrations of aluminum (18,000 mg/kg), chromium (28 and 29.1 mg/kg), and vanadium (25.6 and 33 mg/kg). Metals concentrations are higher in the finer-grained (sandy) sample. Although slag contains slightly more than 1 percent total sulfur, the slag is not expected to be acid-generating due to significant excess neutralizing potential (net neutralizing potential of 23 to 31 tons CaCO3 equivalent per kiloton). This is reflected in near neutral paste pH of these samples (6.34 to 6.79 s.u.). PCB aroclors were not detected in the slag sample that was analyzed; however, a variety of light and heavy molecular weight PAH compounds were detected in low concentrations. The results of the TCLP leach test (Table A.1-6 of Appendix A) show that although small amounts metals were mobilized from the slag sample during leaching, the slag does not have the characteristic of hazardous waste.

Waste rock and slag samples were compared to EPA Region 6 human health screening values for residential soil and outdoor worker industrial soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-3 and 5-4.

Most samples of waste rock and slag exceeded the residential and industrial outdoor worker soil screening values for iron (Table 5-3). In addition, a few samples exceeded residential soil screening values for aluminum, copper, manganese, zinc, and benzo(a)pyrene. Several heavy molecular weight PAH compounds were reported as non-detected in some samples at detection

limits that exceeded the residential soil screening values and could not be evaluated; PAH compounds did not exceed industrial outdoor worker values.

Most samples of waste rock and slag exceeded ecological risk soil screening values for aluminum, barium, total chromium, cobalt, copper, iron, manganese, mercury, selenium, silver, vanadium, and zinc (Table 5-3). A few samples additionally exceeded screening values for antimony, beryllium, cadmium, molybdenum, and nickel. Several light and heavy molecular weight PAH compounds were reported as non-detected at detection limits exceeding screening values and could not be evaluated.

The average waste rock and slag sample (8 samples) exceeded average soil background by factors of 3 or more for barium (factor of 3.6), cobalt (factor >13), copper (factor of 91), iron (factor of 5.7), manganese (factor of 5.3), and zinc (factor of 17) (Table 5-4). Other metals that occur in one or more of these wastes in concentrations exceeding background include aluminum, arsenic, beryllium, cadmium, chromium, lead, mercury, nickel, selenium, silver, thallium, and vanadium. Figures 5-1 through 5-3 illustrate the distribution of background exceedences for waste rock and slag samples.

5.2.2 Other Processed Materials

Samples were collected from four piles of materials that were processed in some manner or areas where processing operations are thought to have taken place. These included a barren pile of crushed material held behind wooden pilings south of the former Engine shaft; a pile of oxidized, crushed material northwest of the former Engine shaft; a pile of very fine-grained, oxidized material northwest of the former Engine shaft; and stained soil in the barren, graded area that formerly hosted open roast yards. Most samples were collected from 0 to 6 inches depth using hand augers, except for the sample contained behind wooden pilings, which was collected from 0 to 12 inches depth.

The material held behind wooden pilings (location OK512) consisted of matrix-supported, moderate yellowish brown micaceous silt with a surface lag of gravel- to cobble-sized quartz and metamorphic rock; surface materials had a yellow iron stain. Location OK520 comprised moderate reddish brown, gravel-sized pieces of quartz-rich rock supported in a reddish brown sandy silt matrix; the material is strongly oxidized and gravel fragments had a coating of white secondary salts. The fine-grained, oxidized, calcine-like material (location OK555) consisted of bright red silt, including grains of crushed quartz and brassy sulfide, which was observed to be mobilized downslope during a rainstorm. Material from the former roast yard (which has been graded and contoured; location OK552) consisted of moderate reddish brown silt with gravel-sized fragments of oxidized schist and quartzite and scattered centimeter-sized pieces of moderate brown vesicular material of uncertain origin.

The four samples of processed materials were analyzed for total metals, acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential), PCB aroclors, and SVOC. Analytical results are presented in Table A.1-3 of Appendix A. As shown in the table, results for antimony and PCBs in two samples and beryllium in one sample were rejected during data validation.

The processed materials varied significantly in composition. The sample of crushed material from behind the wooden pilings (location OK512) and the calcine-like material (location OK555) contained substantially higher concentrations of copper and iron than the other samples. Concentrations of copper in the crushed and calcine-like materials were 1,400J and 15,000J mg/kg, respectively, and those of iron were 210,000J and 270,000J mg/kg, respectively. With respect to the other samples, the crushed and calcine-like samples also contained slightly to moderately elevated concentrations of cobalt, lead, manganese, and zinc. The sample collected from the former roast yard area had the highest concentrations of aluminum, barium, chromium, magnesium, nickel, and vanadium. The processed materials had total sulfur concentrations ranging from 0.8 to 4.0 percent, much of which occurs in sulfate form. Consequently, the samples are expected to be mildly to moderately acid generating (net neutralizing potentials of -15 to -43 tons $CaCO_3$ equivalent per kiloton), consistent with paste pH values of 2.5 to 4.6 s.u.. PCBs were not detected in the two samples for which acceptable results were received. A few light and heavy PAH compounds were detected in very low concentrations in the sample of crushed material collected from behind the wooden pilings. In addition, numerous light and heavy PAH compounds were measured in low concentrations in the sample of calcine-like material. SVOC were not detected in the other samples of process materials.

Samples of other processed waste materials were compared to EPA Region 6 human health screening values for residential soil and outdoor worker industrial soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-3 and 5-4.

All samples of processed materials from the 19th century mill and smelter area exceeded the residential soil screening value for iron and the sample of calcine-like material additionally exceeded the screening values for copper and benzo(a)pyrene (Table 5-3). Numerous heavy molecular weight PAH compounds were reported as non-detected at detection limits exceeding the residential screening values and could not be evaluated. The crushed and calcine-like materials also exceeded the industrial outdoor worker soil screening value for iron.

Table 5-3 shows that most samples of other mine wastes exceeded ecological risk soil screening values for aluminum, total chromium, copper, iron, manganese, mercury, selenium, silver, vanadium, and zinc. A few samples additionally exceeded screening values for barium, cadmium, cobalt, lead, thallium, benzo(a)pyrene, fluoranthene, phenanthrene, and pyrene. Several other light and heavy molecular weight PAH compounds were reported as non-detected at detection limits exceeding screening values and could not be evaluated.

All samples of other processed materials (4 samples) exceeded the average background soil sample for barium, copper, iron, lead, mercury, silver, and zinc and one or more samples additionally exceeded average background soil for aluminum, cadmium, chromium, cobalt, nickel, selenium, thallium, and vanadium (Table 5-4). The average sample of processed materials exceeded average background soil by factors of 3 or more for copper (factor of 109), iron (factor of 5.5), lead (factor of 7.6), and zinc (factor of 12.7). Figures 5-1 through 5-3 illustrate the distribution of background exceedences for these samples.

5.2.3 Soils on the 19th Century Mill and Smelter Site

Seven soil samples (plus one field duplicate) were collected from other areas of the 19th century mill and smelter site, including locations downslope from the former roast yard and slag dumps, within the foundation walls of the historic smelter, and in the area of the former adits. Sample locations are shown on Figure 3-2. Samples were collected from 0 to 6 inches or 0 to 12 inches depth using hand augers.

Soil samples comprise moderate yellowish brown, micaceous silty sand to sandy silt that locally includes gravel-sized pieces of schist. Location OK553, which was collected from within the walls of the smelter foundation, consisted of 6 inches of dark yellowish brown micaceous silt overlying 4 inches of moderate reddish brown clayey silt that rested on 2 inches of dark yellowish orange silt with charcoal fragments.

All soil samples were analyzed for total metals and semi-volatile organic compounds. Three samples were additionally analyzed for acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential) and PCB aroclors. Analytical results are presented in Table A.1-4 of Appendix A.

The average soil sample is characterized by slightly to moderately elevated concentrations of chromium (26 mg/kg), cobalt (11 mg/kg), copper (275 mg/kg), iron (47,140 mg/kg), lead (16.7 mg/kg), nickel (10.4 mg/kg), vanadium (39 mg/kg), and zinc (104 mg/kg). The samples have low total sulfur, slightly acidic paste pH (4.8 to 5.3 s.u.), and are not expected to be acid generating. PCB aroclors were not detected in any of the analyzed samples. A variety of light and heavy molecular weight PAH compounds were detected in low concentrations in a sample collected from an erosional pathway on the north side of the former roastyard area (location OK554) and in the sample collected from within the smelter foundation (location OK553). Benzaldehyde, a possible lab contaminant, was detected in two samples.

Soil samples were compared to EPA Region 6 human health screening values for residential soil and outdoor worker industrial soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-3 and 5-5.

Most soil samples from the 19th century operations area exceeded residential soil screening values for arsenic (cancer-risk value) and one sample exceeded the residential soil screening value for iron (Table 5-3). In addition, the residential soil screening values were exceeded in samples collected north of the roaster area and within the smelter foundation for benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene. In most samples, however, PAH compounds could not be evaluated because results were reported as non-detects at detection limits exceeding the criteria. Three soil samples exceeded the industrial outdoor worker soil screening value for arsenic (cancer-risk value) and one sample exceeded the industrial screening value for iron (Table 5-3).

All soil samples exceeded ecological risk screening values for aluminum, total chromium, copper, iron, and vanadium, most samples exceeded screening values for manganese and zinc,

and a few samples exceeded screening values for arsenic, cobalt, mercury, and selenium (Table 5-3). Thallium could not be evaluated since all results were reported as non-detects at detection limits exceeding the ecological screening value and most results for antimony and selenium also were reported as non-detects as detection levels exceeding their criteria. Benzo(a)pyrene, fluoranthene, and pyrene exceeded ecological criteria in samples collected from the north side of the roaster area and within the smelter foundation. The ecological screening value for total heavy molecular weight PAH compounds for small mammals was exceeded by the sample from the north side of the roaster area. In most samples, however, PAH compounds could not be evaluated because results were reported as non-detected at detection limits exceeding the criteria.

The copper concentration in the average 19th century area soil sample exceeded that of average background soil by a factor of 7 (Table 5-5). The average concentrations of aluminum, chromium, cobalt, iron, lead, nickel, vanadium, and zinc also exceeded average background soils by factors of 1.6 to 2.2. The distribution of soil samples exceeding average background soil concentrations is shown on Figures 5-1 through 5-3.

5.3 1950s Mine and Mill Site

5.3.1 Tailings Disposal Area

Tailings samples were collected from three locations within a 4-acre disposal area north of the flotation mill and from two locations where tailings were being eroded and transported downslope from the disposal area (Figure 3-3). One sample from the tailings area was collected from 4 to 30 inches depth and the other two samples were collected from 4 to 48 inches depth; samples consisted of material in the bottom two inches of each auger bucket. Samples from the downslope areas were collected from 0 to 6 inches and 0 to 12 inches depth. All samples were collected using hand augers.

Tailings samples consisted of layers of fine sand to silt or clayey silt. A sharp color change was noted in two of the three sample locations from yellowish orange tailings above to purplish gray or black tailings at depth. A distinct color change was not described in the third location. The color change, which is assumed to mark the change from oxidized material above to reduced material below, was observed at depths of 9 and 18 inches. Material eroded from the tailings disposal area consisted of tan to light orange, fine sandy or silty tailings. At location OK423, the eroded tailings were 18 inches thick.

The three tailings samples were analyzed for total metals, total cyanide, and acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential). Samples of material eroded from the tailings were submitted for analysis of total metals, PCB aroclors, and SVOC. One sample of eroded tailings was additionally analyzed for total cyanide and acid-base accounting parameters. Analytical results are presented in Table A.1-1 of Appendix A. As shown in the table, one of three results for antimony, silver, and thallium in tailings samples were rejected during data validation. In addition, one of two results for antimony and beryllium were rejected in eroded tailings samples and results for all PCB aroclors were rejected for one sample during data validation.

Because the samples of material eroded from the tailings disposal area consist entirely of oxidized tailings, the three tailings samples and two eroded tailings samples will be discussed as a single group. The average tailings sample is characterized by high concentrations of copper (1,375 mg/kg), iron (82,000 mg/kg), and zinc (597 mg/kg) with low to moderate concentrations of barium, chromium, cobalt, mercury, nickel, selenium, and vanadium. Total cyanide was measured at a low concentration in one tailings sample but was below the detection limit in other samples. The tailings samples are strongly acid-generating, with an average total sulfur content of 6.57 percent, strongly negative net neutralizing potential (-77 tons $CaCO_3$ equivalent per kiloton), and low paste pH (3.66 s.u.). Significant amounts of sulfate sulfur in the samples are consistent with oxidation of sulfide minerals in the tailings. Polychlorinated biphenyl and semi-volatile organic compounds were below detection limits in all analyzed samples.

Tailings and eroded tailings samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-4 and 5-6.

The residential soil screening value for arsenic (cancer-risk value) was exceeded in all samples of tailings and eroded tailings, whereas three samples exceeded the screening value for iron, and one sample exceeded the screening values for copper and zinc (Table 5-6). In addition, all samples exceeded the industrial outdoor worker soil screening value for arsenic (cancer-risk value only) and two samples exceeded the industrial outdoor worker soil screening value for iron. Residential soil and industrial outdoor worker soil screening values for PCBs and SVOC were not exceeded in any samples. However, as noted in Table 5-6, several heavy molecular weight PAH compounds were reported as non-detected at detection limits that exceeded the residential soil screening values; these constituents could not be evaluated.

All tailings and eroded tailings samples exceeded the ecological risk soil screening values for aluminum, chromium, copper, iron, mercury, selenium, vanadium, and zinc (Table 5-6). In addition, one or more samples exceeded the screening values for barium, cadmium, cobalt, manganese, nickel, and total cyanide. Light and heavy molecular weight PAH compounds were reported as non-detected at detection limits that exceeded the residential soil screening values and could not be evaluated.

The average tailings and eroded tailings sample exceeded average background soil values by a factor of three or more for cobalt (factor of 7.9), copper (factor of 36) and zinc (factor of 12) (Table 5-4). Other metals that exceeded average background soil included barium (factor of 1.4), chromium (factor of 1.8), iron (factor of 2.8), lead (factor of 1.4), mercury (factor of >2.9), nickel (factor of 2.5), and selenium (factor of 2.1). Figures 5-4 through 5-6 illustrate the distribution of background exceedences for tailings samples.

5.3.2 Ore Bins

Two samples were collected from the ground surface beneath ore bins on the former mill site (Figure 3-3). The samples were collected beneath the ore bin adjacent to the main haul shaft and

beneath the fine ore bins at the south end of the flotation plant. The samples were collected from 0 to 12 inches and 0 to 18 inches depth using hand augers.

The sample collected from beneath the main ore bin (location OK451) consisted of tan to orange, fine-grained material containing pieces of pyrite-bearing ore. The sample collected from beneath the fine ore bins (location OK450) consisted of tan to orange, silty sand with visible pieces of unoxidized ore to about 5 mm in diameter. The large amount of fine material is consistent with oxidation, weathering, and disintegration of larger ore fragments.

Ore bin samples were submitted for analysis of total metals and acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential). Results are presented in Table A.1-2 of Appendix A.

The average ore sample is characterized by extremely high concentrations of copper (12,800 mg/kg), high concentrations of iron (160,000 mg/kg), and low to moderate concentrations of barium, chromium, cobalt, lead, mercury, selenium, silver, vanadium, and zinc. The material is strongly acid-generating, with total sulfur content of 6.41 percent, strongly negative net neutralizing potential (-98.5 tons $CaCO_3$ per kiloton), and low paste pH (2.32 s.u.). Significant amounts of sulfate sulfur are consistent with substantial oxidation of sulfide minerals in the ore.

The ore samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-4 and 5-7.

Both samples of ore exceeded residential soil screening values for arsenic (cancer-risk), copper, and iron and the industrial outdoor worker soil screening values for arsenic (cancer-risk) and iron (Table 5-7).

Both ore samples also exceeded ecological risk screening values for aluminum, total chromium, cobalt, copper, iron, manganese, mercury, selenium, silver, vanadium, and zinc (Table 5-7). One sample additionally exceeded screening values for antimony and barium (antimony was reported as non-detected in one ore sample at a detection limit that exceeded the ecological screening value).

The average ore sample (2 samples) exceeded average background soil by factors of 3 or more for cobalt (factor of >11), copper (factor of 332), iron (factor of 5.5), mercury (factor of >3.8), selenium (factor of 4.5), silver (factor of >4.5), and zinc (factor of 5.2) (Table 5-4). In addition, the concentrations of arsenic, barium, chromium, lead, and vanadium in the average ore sample exceeded the concentrations in average background soil by factors of 1.4 to 2.6. Figures 5-4 through 5-6 illustrate the distribution of background exceedences for these ore samples.

5.3.3 Soils on the 1950s Mill Site

Thirteen soils samples (plus one field duplicate) were collected from locations on the 1950s mill site (Figure 3-3). These included two samples collected from the area of the former transformer

pad, three samples from the ore bin and conveyor system area, three samples (plus a field duplicate) from the former flotation plant area, two samples from the area of the former electrical shop, two samples from the former freshwater pond, and one sample from the area where material eroded from the shop area is transported downslope. Most samples were collected from 0 to 6 inches depth, with a few samples collected from 0 to 4 inches depth and one sample collected from 0 to 18 inches depth. All samples were collected using hand augers.

Soil samples vary across the mill site. Samples from the transformer pad area consist of light brown silty fine sand. Samples from the ore bin and conveyor area were extremely variable, with the sample from location OK415 described as yellowish tan fine-grained soil with minor ore fragments, the sample from location OK427 described as black, organic-rich soil with a slight oily odor, and the sample from location OK418 described as orange silt overlying dark gray soil with a creosote odor. The samples collected from the flotation plant foundation area were similarly variable with the sample from station OK417 consisting of light brown to black, coarse-grained sand, the sample from location OK414 described as a mix of orange silty clay, light gray silt, and brown sandy silt, and the sample from location OK413 consisting of orange-tan clayey silt. Samples from the former electrical shop area consisted of medium brown silt with minor sand and clay (location OK416) and orange-tan silt (location OK419). Both samples from the former freshwater pond included orange silty sand that was interpreted to be tailings; the tailings rested on black organic-rich silt at location OK424. The sample from the downslope erosional area consisted of light brown sandy silt.

All soil samples were analyzed for total metals and most were also analyzed for total cyanide, PCB aroclors, and SVOC. The two samples from the former freshwater pond were additionally analyzed for acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential), and four samples (one from the flotation plant, two from the former electrical shops, and one from the freshwater pond) were additionally analyzed for volatile organic compounds (VOC). Analytical results are presented in Table A.1-5 of Appendix A. As shown in the table, numerous results for metals in the soil samples were rejected during data validation. These included results for antimony in 11 of 13 samples, arsenic in 5 of 13 samples, silver in 4 of 13 samples, selenium in 2 of 13 samples, and beryllium and cadmium in 1 of 13 samples.

The average soil sample from the 1950s mill site is characterized by high concentrations of copper (1,627 mg/kg) and moderate concentrations of iron (79,385 mg/kg) and zinc (334 mg/kg). Other metals occur in variable concentrations ranging from low to moderate, including arsenic, barium, chromium, cobalt, lead, mercury, nickel, selenium, and vanadium. Soil samples from the freshwater pond area may be mildly acid generating as indicated by total sulfur contents of 1.5 to 2.0 percent, mildly negative net neutralizing potential (-15 to -27 tons CaCO3 per kiloton), and paste pH values of 2.9 to 4.9 s.u.. Nearly half of the total sulfur occurred as sulfate form in both samples. Total cyanide was detected at a low concentration in one of the ten samples that were analyzed. PCB aroclor 1254 was detected in the sample from location OK414 and aroclor 1260 was detected in the sample from location OK417; both of these samples were collected in the flotation plant area. PCB aroclors were below the detection limit in all other samples. A variety of light and heavy molecular weight PAH compounds were detected in a sample from the former transformer area, a sample from the electrical shop area, and a sample downslope from the electrical shops. Lower concentrations of heavy PAH compounds were also identified in

samples from the area of the ore bins and flotation plant. One sample each from the electrical shop and transformer pad contained low concentrations of bis(2-ethylhexyl)phthalate and carbazole (an aromatic organic compound) was identified in the sample from the transformer pad. One sample additionally contained a low concentration of 2-methylnaphthalene and 3 samples contained small quantities of benzaldehyde, a possible lab contaminant. Volatile organic compounds were not detected in any samples.

The soil samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-5 and 5-7.

Most soil samples from the 1950s mill area exceeded residential soil screening values for arsenic (cancer-risk value) and a few samples also exceeded the residential soil screening values for copper, iron, thallium, and zinc (Table 5-7). In addition, the residential soil screening values were exceeded in a few samples for benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. In most samples, however, PAH compounds could not be evaluated because results were reported as non-detected at detection limits exceeding the criteria. A few soil samples exceeded the industrial outdoor worker soil screening value for arsenic (cancer-risk value), iron, and benzo(a)pyrene. PCB aroclor 1254 was detected in one soil sample and aroclor 1260 was detected in one sample from the former mill site. Neither result exceeded human health soil screening values and the results were reported as estimated values below the detection limit for other aroclors.

All soil samples exceeded ecological risk screening values for aluminum, total chromium, iron, and vanadium, most samples exceeded screening values for copper, manganese, mercury, selenium, and zinc, and a few samples exceeded screening values for arsenic, barium, cadmium, cobalt, nickel, and silver (Table 5-7). Thallium could not be evaluated since all results were reported as non-detected at detection limits exceeding the ecological screening value and a few results for mercury, selenium, and total cyanide also were reported as non-detected as detection levels exceeding their criteria. Benzo(a)pyrene, fluoranthene, naphthalene, and phenanthrene exceeded ecological criteria in a few samples. In most samples, however, PAH compounds could not be evaluated because results were reported as non-detected at detection limits exceeding the criteria.

Table 5-5 shows that the average 1950s mill area soil sample (13 samples) exceeded average background soil by a factor of 42 for copper, by a factor of 5.9 for cobalt, and by a factor of 6.9 for zinc. Barium, chromium, iron, and lead in soils from the mill area also exceeded average background soil by factors of 1.4 to 2.8. Figures 5-4 through 5-6 illustrate the distribution of background exceedences for these soil samples.

5.4 Tailings Impoundment

5.4.1 Tailings

Tailings samples were collected from eight locations in the main tailings impoundment and two soil samples were collected from locations around the impoundment. Sample locations are shown on Figure 3-4. The tailings samples included two samples from the face of the dam near the dam centerline, four samples (plus one field duplicate) from surface of the tailings approximately along the centerline of the impoundment, and two samples from the southwest embayment arm. Most samples were collected from 0 to 12 inches depth, with two samples collected from 0 to 18 inches depth and one sample collected from the side of an actively eroding gully at 40 to 45 inches below the top of the tailings surface. Samples were collected using hand augers.

The following descriptions apply to the upper 12 to 18 inches of the tailings impoundment, which was unsaturated in all sampled locations. Tailings solids comprising the dam are primarily fine to medium sand. The material is unconsolidated and becomes progressively finer grained southward and is silt-sized at station OK352. The upper surface of the tailings ranges from moderate yellowish brown (Munsell color 10YR 5/4) to moderate brownish yellow (2.5Y 6/6) to grayish yellow (2.5Y 7/4). In several locations, an indurated layer (hardpan) is present at 8 to 12 inches depth. Below this, the tailings exhibit a sharp change to grayish black to black (N2 to N1). This break is consistent with a change from oxidized to reduced conditions within the tailings pile.

Tailings solids are composed predominantly of quartz grains and rock fragments. Brassy sulfides are visually present in all but the most strongly oxidized samples and typically form 1 percent or less of the samples (visual estimate). Sulfide minerals appear more abundant in samples from the reduced zone. Opaque yellowish secondary mineral salts are locally present in oxidized tailings samples; their mineralogy is unknown.

The eight tailings samples (plus one field duplicate) were analyzed for total TAL metals and acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential). Four samples were additionally analyzed for total cyanide and one sample was analyzed for polychlorinated biphenyl (PCB) compounds and semi-volatile organic compounds (SVOC). Analytical results are presented in Table A.1-1 of Appendix A. As shown in the table, all results for antimony were rejected during data validation.

The average tailings sample is characterized by high concentrations of cobalt (137 mg/kg), copper (1,719 mg/kg), and iron (129,875 mg/kg) and moderately elevated concentrations of numerous other metals including arsenic, mercury, selenium, and zinc. The tailings are strongly acid-generating, with average total sulfur content of 6.87 percent, strongly negative net neutralizing potential (-124 tons $CaCO_3$ equivalent per kiloton of material), and low paste pH (2.63 s.u.). Total cyanide, PCB, and SVOC were below the detection limits in all analyzed samples.

Tailings samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-4 and 5-6.

All tailings samples exceeded the residential soil screening values for arsenic (cancer-risk value only) and iron and one sample additionally exceeded the residential soil screening value for copper (Table 5-6). Most of these samples also exceeded the outdoor industrial worker soil screening values for arsenic (cancer-risk value only) and iron. The sample analyzed for PCB and SVOC compounds did not exceed any human health screening values. However, as noted in Table 5-6, several heavy molecular weight polycyclic aromatic hydrocarbon (PAH) compounds were reported as non-detected at detection limits that exceeded the residential soil screening values; these constituents could not be evaluated.

All tailings samples exceeded the ecological risk soil screening values for aluminum, total chromium, copper, iron, mercury, selenium, and vanadium, and the majority of samples also exceeded the screening values for barium, cobalt, manganese, and zinc (Table 5-6). The ecological risk screening values for arsenic, cadmium, and silver were exceeded in a few samples. Screening values for total PCBs and some PAH compounds were not exceeded in the single tailings sample analyzed for these compounds. As noted in Table 5-6, several light and heavy molecular weight polycyclic aromatic hydrocarbon (PAH) compounds were reported as non-detected at detection limits that exceeded the ecological screening values; these constituents could not be evaluated.

The concentrations of metals in the average tailings sample exceeded average background soil by factors of 3 or more for arsenic (factor of 3.4), cadmium (factor of >7.2), cobalt (factor of >21), copper (factor of 44), iron (factor of 4.5), mercury (factor of >5.4), selenium (factor of >6.6), and zinc (factor of 13) (Table 5-4). Other metals that exceeded average background soil included barium (factor of 2.6), chromium (factor of 1.9), lead (factor of 1.5), and vanadium (factor of 2.1). Figures 5-1 through 5-3 illustrate the distribution of background exceedences for these tailings samples.

5.4.2 Soils Adjacent to the Impoundment

Soil samples were collected from two locations adjacent to the tailings impoundment. Sample locations are shown on Figure 3-4. One sample was collected from a steep slope covered with young pine growth on the south side of the impoundment and the other sample was collected from an area of mature pine trees west of the tailings dam. Both samples consisted of moderate yellowish brown (Munsell color 10YR 4/4 to 5/4) silty soil with fragments of iron-stained quartz. Samples were collected from 0 to 6 inches depth using a hand auger.

Samples were analyzed for total metals, semi-volatile organic compounds, PCBs, paste pH, and acid-base accounting parameters. Analytical results are presented in Table A.1-4 of Appendix A. As shown in the table, results for antimony and selenium were rejected for both samples during data validation.

The two soil samples have low concentrations of most metals. Moderate concentrations of aluminum are consistent with clay minerals forming a portion of the soil. Both samples had low concentrations of total sulfur (0.12 percent or less) and paste pH of 4.4 s.u., suggesting that they are not acid generating. Semi-volatile organic compounds and PCBs were not detected in either sample.

Soil samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-4 and 5-6.

Both soil samples exceeded the residential soil and industrial outdoor worker screening values for arsenic (cancer-risk value only) but did not exceed any other human health screening values (Table 5-6). Sample results were below screening values for PCB aroclors and below industrial outdoor worker soil screening values for PAH and other SVOC compounds; PAH compounds could not be evaluated with respect to residential soil screening values because the results were reported as non-detected at detection limits exceeding the screening values.

The two soil samples exceeded EPA Region 4 ecological risk soil screening values for aluminum, total chromium, iron, manganese, vanadium, and zinc (Table 5-6). Several light and heavy molecular weight PAH compounds could not be evaluated in either sample because results were reported as non-detected at detection limits exceeding the screening values.

The average concentrations of metals in these soils slightly exceeded average background soil concentrations for aluminum (factor of 1.1), total chromium (factor of 1.7), lead (factor of 1.2), nickel (factor of >2.1), vanadium (factor of 1.7), and zinc (factor of 1.3). In addition, one of the two soil samples slightly exceeded the average background soil sample for arsenic, barium, beryllium, cobalt, copper, iron, and silver. Figures 5-1 through 5-3 illustrate the distribution of background exceedences for these soil samples.

5.4.3 Tailings Dam Seeps

Samples were collected from three seeps emanating from the face of the tailings dam: OK009 (west), OK010 (center), and OK012 (east). All samples were analyzed for total and dissolved (0.45um field filtered) metals, total acidity, total alkalinity, sulfate, chloride, total dissolved solids, total suspended solids, and field parameters of pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity. Analytical results are presented in Table A.3-5 of Appendix A.

Seep samples are characterized by extremely high concentrations of total and dissolved aluminum, calcium, iron, magnesium, manganese, potassium, sodium, zinc, and hardness, and moderately high concentrations of total and dissolved cobalt, copper, nickel, and vanadium. The samples also had extremely high concentrations of total acidity, sulfate, and dissolved solids, high specific conductance and variable pH and redox potential. The seep emanating from the west side of the dam face had the highest constituent concentrations, with total iron of 4.1 grams per liter, total manganese of 25.9 milligrams per liter, total zinc of 4.9 milligrams per liter, total

hardness of 1,691 milligrams per liter, total acidity of 5,130 milligrams per liter, and total sulfate of 10,800 milligrams per liter. The variable pH of the seeps is likely a function of the oxidation state of the ground water, which also varies. Oxidized water (location OK009) has lower pH than reduced water (location OK010).

Sample results are compared to North Carolina water quality criteria in Table 5-11. All of the seeps exceeded surface water quality criteria for total aluminum (by factors >22.9), total copper (by factors >5.3), total iron (by factors >1,700), dissolved manganese (by factors >129), total silver (by factors >23.3), and total zinc (by factors >14.4). The seeps also exceeded applicable ground water criteria for sulfate by factors exceeding 16.5. The seep sample collected from the west side of the dam (OK009) exceeded ground water and surface water criteria for total cadmium (7.8 ug/L) and total chromium (62 ug/L).

5.4.4 Tailings Pond Water

Four surface water samples were collected from ponds on the tailings impoundment surface: one from the southeast corner (OK005), one from the southwestern lobe near the concrete pipe inlet (OK006), one on the western margin (OK007), and one in the northeast corner (OK008) (locations are shown on Figure 3-4). Sample locations were based on the extent of ponded water during the field investigation, which is seasonally variable and is dependent on rainfall events. Complete analytical results are presented in Table A.3-5 of Appendix A. Sample results are compared to North Carolina water quality criteria and background values (Peak Creek upstream of Ore Knob Branch) in Table 5-12.

All four samples exceeded applicable North Carolina water quality criteria for aluminum and iron, and three of the samples exceeded criteria for copper, manganese, and pH. The lowest pH (3.09 s.u.) was recorded in the southern portion of the impoundment near the concrete inlet/pipe that conveys water beneath the tailings impoundment (OK006). Surface water in this pond exceeded water quality criteria for cadmium (trout water by a factor of 4), copper (by a factor of 53), manganese (by a factor of 11.7), and zinc (by a factor of 10.6). All four of the ponds exceeded regional background concentrations (relative to Peak Creek upstream of Ore Knob Branch) by at least a factor of two for cobalt (factors >5.7), iron (factors >8.2), manganese (factors >3.0), and zinc (factors >2.4). Maximum concentrations for these metals were aluminum (2,640 ug/L, total), cadmium (1.6 ug/L, total), cobalt (52.7 ug/L, total), copper (375 ug/L, total), iron (20,300 ug/L, total), manganese (1,170 ug/L, dissolved), and zinc (532 ug/L, total).

5.4.5 Tailings Impoundment Water Levels

As noted previously, a pipe that conveys water from the pond on the south end of the tailings to below the tailings dam was partly or completely blocked at the time of the field activities in July 2007, and the pond was at least several feet higher than it had been as late as February 2007. As a result, the North Carolina Superfund Section decided to monitor water levels within the impoundment, and implemented a program for continuously monitoring ground water levels and surface water depths at the tailings impoundment.

On November 9, 2007, NC Superfund Section personnel installed Solinst Levelogger 3001 pressure transducers in existing ground water monitoring wells MW-9, MW-10, MW-12, MW-13 and MW-14 (see Figure 3-4 for locations). In addition, a shallow piezometer/standpipe (Piezo 1A) and pressure transducer was installed near the concrete pipe inlet to the impoundment's 24-inch diameter subdrain to monitor surface water levels in the southern portion of the impoundment. At the time the instrumentation was installed, the subdrain was flowing again and the pond size had diminished somewhat. The purpose of monitoring was to characterize how ground water levels behind the impoundment dam responded to significant rainfall events and how surface water accumulation in the southern portion of the impoundment varied with rainfall events.

The pressure transducers were pre-programmed to self-activate and to read pressure at 30-minute intervals. A Solinst Barologger pressure transducer was installed above ground water in one monitoring well to collect data for barometric correction. Ground water levels were hand-measured at each monitoring well to calculate initial reference elevations based on available surface survey data (S. Parker, NC Superfund Section, personal communication, February 2008). As of the date this report was prepared, data collected from November 9, 2007 to February 16, 2008, had become available (S. Parker, NC Superfund Section, personal communication, February 2008). Ground water elevation data derived from pressure transducer readings at each well are compiled in Appendix C.

Ground Water. Ground water monitoring wells MW-9, MW-13, and MW-14 are located along the crest of the tailings dam, MW-12 is located in the northern half of the impoundment, and MW-10 is located in the southern third of the impoundment (see Figure 3-4). Figure 5-7 displays ground water elevations in each of the wells from November 9, 2007, through February 16, 2008. Local precipitation data (daily totals) for the same time frame are also shown. Precipitation data are from the State Climate Office of North Carolina (NC CRONOS Database) for the Upper Mountain Research Station near Laurel Springs, North Carolina (elevation 3,009 feet above mean sea level).

Ground water elevations in the monitoring wells along the crest of the tailings dam (MW-9, MW-13, and MW-14) vary by less than one foot. Of the three wells, MW-9 consistently had the lowest ground water elevations, indicating that the water table in the center of the dam crest is slightly depressed. Ground water elevations in each of these wells decreased steadily over the duration of the study, but by less than six inches (0.39, 0.37, and 0.41 feet, respectively) (see Figure 5-7). For the most part, these wells are nonresponsive to rainfall events. Ground water elevations increased by less than 0.1 feet or not at all during or following recorded rainfall events. The trends for each well were nearly identical except for MW-13, which tended to have slightly higher amplitudes on peaks and troughs.

The ground water elevation in MW-12, located approximately 260 feet south of the dam crest, is 5.5 to 6.5 feet higher than that recorded in the wells along the dam crest. Ground water elevation in this well followed a consistently decreasing trend similar to that of the wells along the dam crest; elevations at MW-12 decreased by 0.81 feet over the duration of the study. Like the wells along the dam crest, MW-12 appears to be generally nonresponsive to rainfall events. Ground

water elevations increased by less than 0.1 foot or not at all during or following recorded rainfall events.

MW-10 is located around 700 feet south of the tailings dam crest, just north of the area where surface water periodically accumulates on the tailings impoundment surface (see below for more about this ponded water). Ground water elevations are much higher in this well, nearly 13 feet higher than at the dam crest. Unlike the other wells, MW-10 appears to have responded to a number of rainfall events. Ground water elevation data from this well exhibit several distinct trends and prominent peaks that correlate to significant rainfall events (see Figure 5-7). For example, ground water elevation increased approximately 0.5 feet in response to the largest rainfall event during the study (total of 1.18 inches on December 23, 2007). Figure 5-7 highlights a number of prominent peaks that are associated with daily rainfall totals greater then 0.4 inches.

Ground water elevation decreases approximately 12.7 feet over a distance of 645 feet between MW-10 and MW-9. If this trend is extrapolated to the tailings dam face, ground water would be expected to emerge at approximately 2930 feet above mean sea level. This elevation is consistent with the elevations of seeps noted on the dam face during field activities.

Surface Water. As noted above, surface water ponds in the southern portion of the tailings impoundment in the vicinity of the inlet to the subdrain (see Figure 3-4). In December 2006 and February 2007, the pond was less than one acre in size. During field activities, an apparent blockage in the inlet had created an approximately 1.5-acre. Figure 5-8 displays water depth measurements near the subdrain inlet during the study conducted by the NC Superfund Section. Local daily precipitation data (the same as above) are also shown.

Relative to water depth at the time the pressure transducer was installed in Piezo 1A (the reference line on Figure 5-8), up to 0.3 additional feet of water accumulated in the vicinity of the subdrain inlet during the study. For the most part, periods of increased water depth appear correlated with recorded rainfall events. Water depths spiked during or immediately after rainfall events, but tended to recover to shallower depths within hours or days, indicating that the subdrain inlet remained at least partially open and continued to convey water beneath the tailings impoundment. A trend of surface water accumulation did occur in mid- to late-December in apparent response to a series of rainfall events, but flushed through the system in early January. It is unknown if the inlet was partially blocked during this period, or if the subdrain simply could not accommodate the amount of flow entering the tailings impoundment.

5.5 Downstream Receiving Waters

5.5.1 Ore Knob Branch

5.5.1.1 Surface Water

Surface water samples from Ore Knob Branch were collected about 500 feet upstream of the tailings impoundment (OK001), just inside the impoundment (OK002), approximately 220 feet downstream of the impoundment (OK013), and about 90 feet upstream from the confluence with Peak Creek (OK014). These samples (plus one field duplicate) were analyzed for total and

dissolved (0.45µm field filtered) metals, total acidity, total alkalinity, sulfate, chloride, total dissolved solids, total suspended solids, and field parameters of pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity. Analytical results are presented in Table A.3-4 of Appendix A.

Samples collected above the tailings impoundment are characterized by moderate concentrations of total and dissolved metals (dissolved copper of 616J and 3,840J µg/L; dissolved iron of 629 and 13,500 µg/L), and moderate to low total hardness, total acidity, total sulfate, and total dissolved solids (maximum values of 174 mg/L, 43 mg/L, 249 mg/L, and 344 mg/L, respectively). In addition, these samples have slightly acidic pH (4.41 to 5.49 s.u.), have specific conductance of 237 to 433 µS/cm, and are moderately oxidizing (ORP of +185 to +254 mV). In contrast, samples collected below the tailings dam have moderately to extremely high concentrations of total and dissolved metals (dissolved copper of 291J µg/L; dissolved iron of 376,000 µg/L), total hardness (402 mg/L), total acidity (849 mg/L), total sulfate (1,550J mg/L), and total dissolved solids (1,760J mg/L). Most concentrations exhibit slight decreases as water flows from station OK013 (immediately below the tailings dam) downstream to station OK014 (above Peak Creek). Surface water below the impoundment is characterized by acidic pH (2.87 s.u.) and high specific conductance (2,089 EPS/cm), and it is strongly oxidized (ORP of +409 mV).

Sample results are compared to North Carolina water quality criteria and regional background values (Peak Creek upstream of Ore Knob Branch) in Table 5-13. All samples exceeded water quality criteria for aluminum, cadmium, copper, manganese, zinc, and pH and three of the four samples also exceeded the criterion for iron, the exception being the sample collected upstream of the tailings impoundment (OK001). Maximum concentrations for these metals greatly exceed water quality criteria: aluminum (4,600 µg/L, total), cadmium (9.7 µg/L, total), copper (4,270 µg/L, total), manganese (3,780 µg/L, dissolved), zinc (1,720 µg/L, total), and iron (376,000 µg/L, total). Figures 5-9 through 5-12 illustrate water quality exceedences for surface water samples in Ore Knob Branch.

Surface water samples in Ore Knob Branch were compared to a sample collected in Peak Creek upstream of the confluence with Ore Knob Branch (OK015) which is used herein to represent background conditions. Upstream samples from Ore Knob Branch were not used to represent background since all reaches of the stream are impacted by mining activities, including the headwaters that originate from at least two sealed/blocked adits that were fitted with anoxic limestone drain treatment systems in the early 1990s (NCDENR, 1994). All samples exceeded Peak Creek background concentrations by at least a factor of four for total aluminum (factors >4.0), total cadmium (factors >14), total cobalt (factors >151), total copper (factors >147), dissolved manganese (factors >75), total nickel (factors >16.9), and total zinc (factors >139). Three of the four samples (not including OK001) exceeded background concentrations of these metals by higher factors and far exceeded background concentrations for iron (by factors >47). Surface water pH decreased by more than two standard units from the point where Ore Knob Branch enters the tailings impoundment (5.49 s.u.) to immediately below the tailings impoundment (2.87 s.u.) and at the confluence with Peak Creek (2.86 s.u.).

5.5.1.2 Headwaters Seeps

Samples were collected from two seeps that formed the headwaters flow of Ore Knob Branch. The seeps originate in the vicinity of five sealed/blocked adits between the top of Ore Knob and the tailings impoundment (OK003 and OK004). These adits were outfitted with anoxic limestone drains to treat mine water discharge (NCDENR, 1994). The channel for seep OK003 is lined with limestone and the water surface had a milky white film at the time of sample collection. The limestone substrate was covered with white precipitate and green filamentous algae; blue copper salts were observed locally coating limestone clasts along the edge of the seepage flow. The substrate of seep OK004 is not lined with limestone and was armored with orange iron precipitate.

Seep samples were analyzed for total and dissolved (0.45µm field filtered) metals, total acidity, total alkalinity, sulfate, chloride, total dissolved solids, total suspended solids, and field parameters of pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity. Analytical results are presented in Table A.3-4 of Appendix A.

The seeps are characterized by moderate to high concentrations of total and dissolved aluminum, calcium, cobalt, copper, magnesium, manganese, zinc, and hardness, low to moderate iron, nickel, selenium, and sulfate. Seep OK003 contained lower concentrations of each of these metals except calcium and had pH that was higher by more than one log unit (4.91 vs. 3.73 s.u.), consistent with the effects of limestone treatment. Copper concentrations were extremely high in both samples (59,300J and 13,400J µg/L as dissolved Cu). Both samples also contained excess acidity, which suggests the limestone drains are only partly effective in treating the mine drainage.

Sample results are compared to North Carolina surface and ground water quality criteria in Table 5-11. Water from both seeps exceeded ground water and surface water quality criteria by at least a factor of five for total aluminum (factors >26.4), total cadmium (factors >5.0), total copper (factors >6.2), and dissolved manganese (factors >34.3). In addition, both seeps exceeded criteria for total zinc (factors of >1.8 for ground water; factors >37.6 for surface water) and total iron (factors >2.8 for ground water). Field pH values from both seeps are lower than applicable ground water and surface water ranges.

5.5.1.3 Sediment

Sediment samples from Ore Knob Branch were collected from five locations that were co-located with the surface water samples described above. Samples were collected from the center of the stream channel at depths of 4 inches or less. Sediment in Ore Knob Branch consists of light-brown to orange, fine- to medium-grained, silty micaceous sand with a trace of fine gravel. The substrate is predominantly armored and covered with a thin layer of orange precipitant.

All samples (including 2 field duplicates) were analyzed for total metals and SVOC, and the sample collected just above the Peak Creek confluence (plus one field duplicate) was additionally analyzed for PCB aroclors. Analytical results are presented in Table A.4-4 of

Appendix A. As shown in the table, results for antimony in four samples and for arsenic, beryllium, and thallium in one sample were rejected during validation.

Maximum concentrations for metals in the Ore Knob sediment samples were cadmium (6.7 mg/kg), copper (4,200 mg/kg), iron (330,000 mg/kg), mercury (0.4 mg/kg), and selenium (21 mg/kg). In most cases, the sample with the highest concentrations was collected from within the tailings impoundment and is likely to be composed of a high percentage (or entirely) of tailings material. PCB aroclors were below detection in the analyzed sample. SVOC were detected in low concentrations only in the sample collected upstream of the tailings impoundment (location OK001).

Sample results are compared to Region 4 ecological sediment screening criteria (EPA, 2001) in Table 5-14. All sediment samples exceeded screening values for copper, iron, and mercury. In addition, screening values for cadmium, cobalt, manganese, nickel, selenium, and zinc were exceeded in one to three of the samples. The concentrations of PAH compounds did not exceed ecological screening values. The distributions of samples exceeding screening values for copper, iron, and zinc are depicted in Figures 5-13 through 5-15.

Table 5-14 also compares sediment results for Ore Knob Branch to regional background sediment concentrations (location OK015 in Peak Creek upstream of Ore Knob Branch). The sample collected just within the southern boundary of the tailings impoundment (OK002) exceeded background for aluminum, cobalt, copper, iron, mercury, and zinc. In most cases, this sample contained the highest metals concentrations, exceeding background by at least a factor of three. As noted above, this sample was collected from within the tailings impoundment and is likely to be composed of a high percentage (or entirely) of tailings material. As shown in Table 5-14, background sediment concentrations were exceeded in one or more for aluminum, arsenic, cadmium, cobalt, copper, iron, manganese, mercury, nickel, selenium, silver, sodium, thallium, vanadium, and zinc.

5.5.1.4 Floodplain Soil

Three soil samples were collected from the floodplain of Ore Knob Branch. One sample (plus one field duplicate) was collected from the right bank of the stream below the tailings dam and the other samples were collected from the left and right banks of the stream above the Peak Creek confluence (Figure 3-1).

In general, floodplain soil consists of light brown to orange, micaceous, fine sand to silty sand. These samples, which were collected from 0 to 6 inches depth using hand augers, were analyzed for total metals, acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential), PCB aroclors , and SVOC. Analytical results are presented in Table A.4-4 of Appendix A. As shown in the table, results for antimony in two samples and thallium in one sample were rejected during data validation.

In general, the Ore Knob Branch floodplain soils have moderate to high concentrations of copper and iron, and low to moderate concentrations of barium, selenium, vanadium, and zinc. Cadmium, cobalt, and lead occurred in low to moderate concentrations in one of the three

samples. The Ore Knob Branch floodplain soils are expected to be mildly acid generating as indicated by total sulfur contents of 0.9 to 2.1 percent, negative net neutralizing potential (-7 to -33 tons $CaCO_3$ equivalent per kiloton), and paste pH values of 3.5 to 3.8. Approximately half of the sulfur in these samples occurs in the sulfate form. PCB aroclors and SVOC were below detection in all samples.

Floodplain soil samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-5 and 5-8.

The three floodplain soil samples from Ore Knob Branch exceeded residential soil screening values for arsenic (cancer-risk value only) and iron, and two of three additionally exceeded the industrial outdoor worker soil screening values for arsenic (cancer-risk value only) and iron. Most heavy molecular weight PAH compounds could not be compared to residential soil screening values because they were reported as non-detected at detection limits that exceeded the screening values.

All floodplain soil samples exceeded ecological risk screening values for aluminum, total chromium, copper, mercury, selenium, vanadium, and zinc and one or two samples additionally exceeded screening values for barium, cadmium, cobalt, iron, and manganese. Thallium could not be evaluated because all results were reported as non-detected at detection limits exceeding the ecological screening value. Several light and heavy molecular weight PAH compounds also could not be evaluated because results were reported as non-detected at detection limits exceeding the criteria.

The average floodplain soil sample from Ore Knob Branch exceeded the average background soil sample from the Ore Knob area by factors of three or more for cobalt (factor of 4.2), copper (factor of 15.1), and iron (factor of 9.2). In addition, average floodplain soils exceeded average background soil by factors of 1.2 to 2.9 for arsenic, barium, chromium, lead, mercury, selenium, vanadium, and zinc. Figures 5-13 through 5-15 illustrate the distribution of background exceedences for these soil samples.

5.5.2 Little Peak Creek

5.5.2.1 Surface Water

Surface water samples from Little Peak Creek were collected in the marshy area upstream of the former freshwater pond (OK025), within the breached dam of the former freshwater pond (OK024), about 660 feet upstream of Low Gap Branch (OK023), in Low Gap Branch (OK022), and approximately 340 feet upstream of the confluence with Peak Creek (OK021). These samples were analyzed for total and dissolved (0.45µm field filtered) metals, total acidity, total alkalinity, sulfate, chloride, total dissolved solids, total suspended solids, semi-volatile organic compounds, and field parameters of pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity. Two samples were additionally analyzed for total

cyanide, PCB aroclors, and volatile organic compounds. Analytical results are presented in Table A.3-3 of Appendix A.

Samples collected from Little Peak Creek above the Low Gap Branch tributary are characterized by low to moderate concentrations of total and dissolved metals (dissolved copper of 1.7J to 76.4 µg/L; dissolved iron of 833E to 5,250 µg/L), and moderate to low total hardness, total acidity, total sulfate, and total dissolved solids (maximum values of 115 mg/L, 69.9 mg/L, 200 mg/L, and 284 mg/L, respectively). In addition, these samples have near neutral to moderately acidic pH (3.08 to 6.45 s.u.), have specific conductance of 216 to 593 uS/cm, and are slightly to strongly oxidizing (ORP of +46 to +512 mV). In contrast, the sample collected below the Low Gap Branch confluence (just above Peak Creek) has comparatively low concentrations of total and dissolved metals (dissolved copper of 3.9J µg/L; dissolved iron of 62.8E ug/L), total hardness (21.7 mg/L), total acidity (13.4 mg/L), total sulfate (20.9 mg/L), and total dissolved solids (67 mg/L). In addition, this surface water has neutral pH (6.85 s.u.), has low specific conductance (71 uS/cm), and is moderately oxidized (ORP of +124 mV). Most constituent concentrations in lower Little Peak Creek are approximately twice those in Low Gap Branch upstream of its confluence with Little Peak Creek.

Total cyanide was present at a low concentration in the sample collected below the former freshwater pond. PCB aroclors, SVOC, and VOC were below detection in all samples.

Sample results are compared to North Carolina water quality criteria in Table 5-15. Surface water samples collected from the impacted portion of Little Peak Creek (not including Low Gap Branch) generally contained concentrations of total aluminum, copper, and manganese that exceeded water quality criteria. Samples upstream of the confluence with Low Gap Branch also exceeded criteria for total zinc and pH. Figures 5-9 through 5-12 illustrate water quality exceedences for surface water samples in Little Peak Creek. Although PCB aroclors, SVOC, and VOC were not detected in any samples, several organic compounds were reported as non-detected at detection limits that exceeded criteria and could not be evaluated (Table 5-16). With the exception of aluminum (913 µg/L, total), surface water from Low Gap Branch did not exceed applicable water quality criteria.

Little Peak Creek surface water is compared to surface water quality in Low Gap Branch (used to represent background) in Table 5-15. All three of the samples collected from the impacted portion of Little Peak Creek exceeded background concentrations by a factor of four or more for cobalt (factors >10.2), copper (factors >4.6), manganese (factors >19.3), and zinc (factors >10.7). Numerous other metals exceeded background concentrations in one or more samples (Table 5-15).

5.5.2.2 Sediment

Sediment samples from Little Peak Creek were collected at five locations co-located with surface water samples. Samples were collected from the center of the stream channel from 0 to 3 inches depth. Sediment in the vicinity of the former freshwater pond (OK024 and OK025) is red-orange to brown, medium sand with trace amounts of angular gravel. Downstream of the former freshwater pond and in Low Gap Branch, sediment is light-brown, well-graded sandy gravel with

minor gravel-sized fragments of schist. Sediment near the confluence with Peak Creek is brown, fine to medium sand with a trace amount of fine-grained, subangular gravel.

All samples were analyzed for total metals, PCB aroclors, and SVOC. Two samples were additionally analyzed for total cyanide and acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential). Analytical results are presented in Table A.4-3 of Appendix A. As shown in the table, results for silver in three samples were rejected during data validation.

Maximum concentrations for several metals, such as copper (600J mg/kg) and iron (130,000J mg/kg) were measured in samples collected upstream of the Low Gap Branch confluence. However, maximum concentrations for many other metals, such as aluminum (11,000 mg/kg), chromium (46 mg/kg), manganese (470 mg/kg), and zinc (72J mg/kg) were measured in sediment collected in lower Little Peak Creek upstream of the Peak Creek confluence. Upstream samples that were analyzed for acid-base accounting are not expected to be acid-generating due to total sulfur contents of less than 1 percent (note, however that paste pH of one sample is 3.89 s.u.). PCB aroclors, SVOC, and VOC were below detection in all samples.

Sample results are compared to Region 4 ecological sediment screening values in Table 5-17. All Little Peak Creek sediment samples (excluding Low Gap Branch) exceeded screening criteria for copper and iron, and the sample collected above the Peak Creek confluence additionally exceeded the screening value for manganese. Sediment in Low Gap Branch did not exceed any screening values. The distributions of samples exceeding screening values for copper, iron, and zinc are depicted in Figures 5-13 through 5-15.

Table 5-17 also compares sample results for Little Peak Creek to sediment in Low Gap Branch, which serves as a measure of background for this watershed. The four Little Peak Creek samples exceeded the Low Gap Branch concentrations for barium, calcium, copper, iron, lead, magnesium, manganese, potassium, vanadium, and zinc, and most samples additionally exceeded the background concentrations for aluminum and cobalt. The concentrations of copper, iron, and zinc were higher than background by factors of >59, >9.1, and >2.3, respectively.

5.5.2.3 Floodplain Soil

Two soil samples were collected from the floodplain of Little Peak Creek immediately above its confluence with Peak Creek and one sample was collected from a location immediately downstream of the breached dam for the former freshwater pond (Figure 3-1). The latter sample (station OK426) was collected from a grass-covered pile of sediment In general, floodplain soil consists of light to moderate brown, fine to medium sand. These samples, which were collected from 0 to 6 inches depth using hand augers, were analyzed for total metals, acid-base accounting parameters (paste pH, sulfur forms, neutralizing potential), PCB aroclors , and SVOC. The sample collected from below the former freshwater pond dam was additionally analyzed for total cyanide. Analytical results are presented in Table A.4-3 of Appendix A. As shown in the table, results for antimony and selenium were rejected in two samples during data validation.

The Little Peak Creek floodplain soils have low to moderate concentrations of copper and iron and low concentrations of most other metals. The sample collected below the former freshwater pond dam has significantly higher concentrations of copper and iron than the downstream samples (Cu of 900J mg/kg vs. 94J and 110J mg/kg downstream; Fe of 410,000J mg/kg vs. 29,000J and 36,000J downstream). Total cyanide and PCB aroclors were below detection in all samples analyzed for these constituents. Benzaldehyde and 2-methylphenol were the only detected SVOC and were measured at low concentrations in one sample.

Floodplain soil samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-5 and 5-8.

Two of the Little Peak Creek floodplain soil samples exceeded the residential and industrial outdoor worker soil screening values for arsenic (cancer-risk value only) and one sample exceeded the screening values for iron; arsenic in the third sample was reported as non-detected at a detection limit that exceeded the residential soil screening value and could not be evaluated. Neither of the detected SVOC compounds exceeded human health screening values; several heavy molecular weight PAH compounds could not be compared to residential soil screening values because they were reported as non-detected at detection limits that exceeded the screening values.

The Little Peak Creek floodplain soil samples exceeded ecological risk screening values for aluminum, total chromium, copper, iron, manganese, vanadium, and zinc and one sample additionally exceeded screening values for cadmium selenium. Thallium could not be evaluated in any samples, mercury could not be evaluated in two samples, and antimony, arsenic, and cadmium could not be evaluated in one sample because results were reported as non-detected at detection limits exceeding the ecological screening value. Several light and heavy molecular weight PAH compounds also could not be evaluated because results were reported as non-detected at detection limits exceeding the criteria.

The average floodplain soil sample from Little Peak Creek exceeded the average background soil sample from the Ore Knob area by factors of three or more for copper (factor of 9.6) and iron (factor of 5.5). In addition, average floodplain soils exceeded average background soil by factors of 1.1 to 2.9 for aluminum, barium, chromium, cobalt, nickel, selenium, vanadium, and zinc. Figures 5-13 through 5-15 illustrate the distribution of background exceedences for these soil samples.

5.5.3 Peak Creek

5.5.3.1 Surface Water

Surface water samples from Peak Creek were collected approximately 200 feet upstream of Ore Knob Branch (OK015), about 60 feet downstream of Ore Knob Branch (OK016), about 440 feet upstream of Little Peak Creek (OK017), and approximately 490 feet downstream of Little Peak Creek (OK018). At stations OK015 and OK017, samples were collected from the center of the

stream channels. Samples at stations OK016 and OK018 were collected from the right channel, center channel, and left channel along transects perpendicular to flow. All samples were analyzed for total and dissolved (0.45µm field filtered) metals, total acidity, total alkalinity, sulfate, chloride, total dissolved solids, total suspended solids, semi-volatile organic compounds, and field parameters of pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity. Complete analytical results are presented in Table A.3-2 of Appendix A.

The sample collected from Peak Creek above the Ore Knob Branch confluence tributary is characterized by low concentrations of total and dissolved metals (dissolved copper of 1.3J µg/L; dissolved iron of 103 µg/L), and low total hardness, total acidity, total sulfate, and total dissolved solids (10.7 mg/L, 13.4 mg/L, 2.65 mg/L, and 47 mg/L, respectively). In addition, this water had neutral pH (7.14 s.u.), specific conductance of 35 uS/cm, and was slightly oxidizing (ORP of +47 mV). In contrast, samples collected across the Peak Creek channel below the Ore Knob Branch confluence have widely variable compositions indicative of partial mixing of the two streams at the sampled transect. In all cases, samples collected from the left bank of Peak Creek had significantly higher concentrations than those on the right bank and reflect the inflow of Ore Knob Branch water on the left creek bank. Samples from this transect exhibited a 9-fold change in dissolved copper (2.8J to 24.9J µg/L) and dissolved iron (930E to 8,270 µg/L) across the channel and substantial variations in total hardness (11.5 to 32.7 mg/L), total acidity (13.4 to 43.0 mg/L), total sulfate (12.6J to 100J mg/L), and total dissolved solids (48 to 106 mg/L). Moreover, pH varied by more than 2 log units (3.69 to 5.92 s.u.), specific conductance ranged from 56 to 230 µS/cm, and redox potential ranged from +131 to +460 mV. Downstream mixing creates more homogeneous water at downstream sampling locations, where water concentrations fell within the range of values at station OK016. Consequently, water in Peak Creek above and below the Little Peak confluence had moderate concentrations of metals (dissolved copper of 18J to 22.4J µg/L; dissolved iron of 1,430E to 3.030E µg/L), total hardness (22.5 to 27.5 mg/L), total acidity (16.1 to 18.8 mg/L), total sulfate (44.5J to 55.6 mg/L), and total dissolved solids (70 to 87 mg/L). However, pH remained acidic (3.90 to 3.93 s.u.), specific conductance ranged from 143 to 164 µS/cm, and the water was oxidized (ORP of +410 to +422 mV). Inputs predominantly from Ore Knob Branch, and to a much smaller extent Little Peak Creek, increase the concentrations of dissolved metals such as aluminum, copper, iron, manganese, and zinc by factors of more than 10. In addition, the inputs double stream hardness, increase sulfate by a factor of 18, lower pH by 3 log units, and raise redox potential by 370 mV.

Surface water in Peak Creek is compared to applicable North Carolina water quality criteria in Table 5-18. The sample collected upstream of the Ore Knob Branch confluence slightly exceeded water quality criteria for total aluminum. Samples collected downstream of the confluence mostly exceeded water quality criteria for total aluminum, copper, iron, manganese, zinc, and pH. Figures 5-9 through 5-12 illustrate water quality exceedences for surface water samples from Peak Creek.

Surface water in Peak Creek below Ore Knob Branch is also compared to background values (location OK015 above Ore Knob Branch) in Table 5-18. Six of the seven samples from Peak Creek downstream of Ore Knob Branch (not including the right bank sample immediately downstream of the confluence) exceeded background concentrations by at least a factor of seven

for cobalt (factors >20), copper (factors >7.7), iron (factors >9.6), manganese (factors >10.2), and zinc (factors >10.7).

5.5.3.2 Sediment

Sediment samples from Peak Creek were collected from four locations co-located with surface water samples. Samples were collected from transects across the stream (right channel, channel center, left channel) at locations downstream of Ore Knob Branch and upstream of South Fork New River. Samples were generally collected from 0 to 3 inches depth. Peak Creek sediment upstream of the confluence with Ore Knob Branch (OK015) and along the right bank just below the confluence (OK016) consists of brown, fine sand with a trace of coarse gravel. Downstream of the confluence, sediment is reddish-brown, medium- to fine-grained sand with a trace of dark gray silt/clay and orange precipitate minerals.

All samples were analyzed for total metals, PCB aroclors, and SVOC. Analytical results are presented in Table A.4-2 of Appendix A. As shown in the table, results for antimony and selenium in four samples and silver in one sample were rejected during data validation.

The sample collected from Peak Creek upstream of Ore Knob Branch contained low to moderate concentrations of metals (e.g., chromium – 47 mg/kg, copper – 500J mg/kg, iron – 69,000 mg/kg, lead – 28J mg/kg, selenium – 1.3UJ mg/kg, and zinc – 170J mg/kg). In contrast, sediment collected from the transect immediately below the confluence with Ore Knob Branch (OK016) had extremely high maximum concentrations (chromium – 390 mg/kg, copper – 99,000J mg/kg, iron – 940,000J mg/kg, lead – 370J mg/kg, selenium – 260 mg/kg, and zinc – 6,900J mg/kg). Cross-channel variation was very high, with many metals varying by more than an order of magnitude (in contrast to surface water, sediment concentrations were typically highest in the center or right part of the channel, likely reflecting variations in stream velocity. Sediment samples collected from the transect above South Fork New River (location OK018) typically had the lowest metals concentrations (chromium – 24J mg/kg, copper – 130J mg/kg, iron – 52,000J mg/kg, lead – 6J mg/kg, and zinc – 54J mg/kg). PCB aroclors and SVOC were below detection in all samples.

Sample results are compared to Region 4 ecological screening criteria for sediment (EPA, 2001) in Table 5-19. All Peak Creek sediment samples exceeded screening values for copper and iron; a smaller subset of samples exceeded screening values for arsenic, chromium, cobalt, lead, manganese, nickel, selenium, silver, and zinc. Note that the sediment sample collected upstream of the Ore Knob Branch confluence exceeded screening values for copper, iron, manganese, and zinc, but at much lower concentrations than samples downstream of the confluence. The distributions of samples exceeding screening values for copper, iron, and zinc are depicted in Figures 5-13 through 5-15.

Sample results are compared to background values in Table 5-19. Most samples collected from the transect downstream of the Ore Knob Branch confluence exceeded upstream sediment concentrations for arsenic, chromium, cobalt, copper, iron, lead, nickel, selenium, and zinc. Sediment collected from above South Fork New River did not exceed background concentrations.

5.5.3.3 Floodplain Soil

Two soil samples were collected from the floodplain of Peak Creek immediately above its confluence with the South Fork of the New River (Figure 3-1). In general, floodplain soil consists of light to medium brown to orange silty fine sand. These samples, which were collected from 0 to 6 inches depth using hand augers, were analyzed for total metals, PCB aroclors, and SVOC. Analytical results are presented in Table A.4-2 of Appendix A. As shown in the table, results for antimony and selenium were rejected in one sample during data validation.

In general, the Peak Creek floodplain soils have low concentrations of most metals. PCB aroclors were below detection in both samples. Benzaldehyde, benzo(b)fluoranthene, and benzo(k)fluoranthene were measured in low concentrations in one sample.

Floodplain soil samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2007), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-5 and 5-8.

One of the Peak Creek floodplain soil samples exceeded the residential soil screening value for arsenic (cancer-risk value only); arsenic in the second sample was reported as non-detected at a detection limit that exceeded the residential soil screening value and could not be evaluated. The samples did not exceed any industrial outdoor worker screening values. Neither of the detected PAH compounds exceeded human health screening values; several heavy molecular weight PAH compounds could not be compared to residential soil screening values because they were reported as non-detected at detection limits that exceeded the screening values.

Both Peak Creek floodplain soil samples exceeded ecological risk screening values for aluminum, total chromium, iron, manganese, and vanadium and one sample additionally exceeded screening values for copper and zinc. Selenium and thallium could not be evaluated because results were reported as non-detected at detection limits exceeding the ecological screening value. Several light and heavy molecular weight PAH compounds also could not be evaluated because results were reported as non-detected at detection limits exceeding the criteria.

The average floodplain soil samples from Peak Creek are near or below the average background values for soil samples from the Ore Knob area (Figures 5-13 through 5-15).

5.5.4 South Fork New River

5.5.4.1 Surface Water

Surface water samples from South Fork New River were collected approximately 500 feet upstream of Peak Creek (OK020) and at about 600 feet, 1520 feet, and 1900 feet downstream of Peak Creek (OK019, OK026, and OK027, respectively). At stations OK020 and OK027, samples were collected from the center of the stream channel. Five samples forming a transect

perpendicular to the flow of the river were collected at station OK019 and a three-station transect was established at location OK026. All samples were analyzed for total and dissolved (0.45µm field filtered) metals, total acidity, total alkalinity, sulfate, chloride, total dissolved solids, total suspended solids, semi-volatile organic compounds, and field parameters of pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity. Analytical results are presented in Table A.3-1 of Appendix A. As shown in the table, results for mercury in 10 samples and for nickel in 7 samples were rejected during data validation. In addition, total acidity was reported as 13.4 mg/L in all samples, suggesting that these results may not be reliable.

The sample collected from South Fork New River above the Peak Creek confluence tributary is characterized by low concentrations of total and dissolved metals (dissolved copper of 0.97J ug/L; dissolved iron of 190 µg/L), and low total hardness, total sulfate, and total dissolved solids (21.8 mg/L, 5UJ mg/L, and 56 mg/L, respectively). In addition, this water had neutral pH (7.52 s.u.), specific conductance of 70 µS/cm, and was slightly oxidizing (ORP of +71 mV). In contrast, samples collected across the South Fork New River channel below the Peak Creek confluence have slightly variable compositions indicative of partial mixing of the two streams at the sampled transect. For most metals, samples collected from the right bank of the river have slightly higher concentrations than those on the left bank and reflect the inflow of Peak Creek water on the right river bank. For example, dissolved copper varied from 1.3J ug/L in the left river channel to 2.7J in the right river channel and dissolved iron varied from 176 ug/L in the left river channel to 277 ug/L in the right channel. In most cases, metals concentrations in samples from the right channel are higher than in the upstream sample. Moreover, pH varied by slightly more than 1 log unit across the channel (7.60 to 8.74 s.u.), with the lowest pH along the right bank. Slight cross-channel variations were also observed in the transect at location OK026, but they were less prominent than those upstream. In general, concentrations at the two downstream river sampling locations (OK026 and OK027) fell within the range of values measured for the transect immediately below the Peak Creek confluence. Semi-volatile organic compounds were not detected in any of the South Fork New River samples.

Sample results for South Fork New River are compared to applicable North Carolina water quality criteria in Table 5-20. Surface water samples upstream and downstream of the confluence with Peak Creek exceed water quality criterion for aluminum (maximum value 322 ug/L, total). It is noted here that the North Carolina water quality criterion for aluminum is expressed in total recoverable form; although total aluminum concentrations in South Fork New River exceeded the criterion value of 87 µg/L, dissolved aluminum in these samples was consistently less than the criterion. Several SVOC were reported as non-detected at detection limits that exceeded water quality criteria; these compounds could not be evaluated.

Sample results are compared to background values in Table 5-20, in which surface water background quality is represented by the sample collected upstream of the Peak Creek confluence (location OK020). Several samples downstream of the confluence contained concentrations of total cobalt, copper, and manganese higher than the upstream sample. In addition, the concentrations of dissolved copper, iron, manganese, and zinc are higher in most downstream samples, with the highest concentrations (by factors of 1.5 to 2.8) occurring in samples from the right side of the channel downstream of the Peak Creek confluence.

5.5.4.2 Sediment

Sediment samples from South Fork New River were collected at four stations co-located with surface water samples. Samples were collected from a transect across the river (right channel, channel center, left channel) at the location downstream of the Peak Creek confluence (OK019), from the center and right channels at location OK026, and from the center of the channel at upstream station OK020 and downstream station OK027. Samples were collected from either 0 to 2 inches or 0 to 3 inches depth. Sediment in South Fork New River is predominantly light to medium brown, fine sand with traces of subangular fine gravel. Portions of the river bottom consist of medium to coarse gravelly sand with subangular micaceous fines (OK026).

All samples were analyzed for total metals, PCB aroclors, and SVOC. Analytical results are presented in Table A.4-1 of Appendix A. As shown in the table, results for antimony in four samples and cobalt in one sample were rejected during data validation.

The sample collected from South Fork New River upstream of Peak Creek contained low concentrations of metals (e.g., chromium – 16 mg/kg, copper – 9.8J mg/kg, iron – 10,000J mg/kg, lead – 1.6J mg/kg, vanadium – 22 mg/kg, and zinc – 20J mg/kg). In contrast, sediment collected from the right channel and channel center along the transect immediately below the confluence with Peak Creek (OK019) had low to moderate concentrations of metals (maximum values: chromium – 32 mg/kg, copper – 120J mg/kg, iron – 31,000J mg/kg, lead – 9.1J mg/kg, vanadium – 52 mg/kg, and zinc – 81J mg/kg). Concentrations in the sample collected from the left side of the channel at transect OK019 were similar to or lower than concentrations upstream. Sediment samples collected from the two downstream locations have variable metals concentrations. Importantly, the sample from station OK027 had the highest sediment concentrations of chromium (26J mg/kg), copper (570J mg/kg), iron (130,000J mg/kg), and lead (16J mg/kg) of all samples collected from South Fork New River. PCB aroclor 1260 was detected in a sediment sample collected from the right channel of South Fork New River downstream of the Peak Creek confluence at a reported value of 37J ug/kg. PCB aroclors were below detection in all other samples and SVOC were below detection in all samples.

Sample results are compared to Region 4 ecological sediment screening criteria (EPA, 2001) in Table 5-21. The sediment sample collected from upstream of the Peak Creek confluence (station OK020) exceeded the screening value for mercury. Three samples collected downstream of the Peak Creek confluence exceeded the screening values for copper and iron and the screening values for manganese, mercury, nickel, and selenium were additionally exceeded in one downstream sample. The reported value for PCB aroclor 1260 in a sample from downstream station OK019 (37J ug/kg in the right channel) slightly exceeded the screening value of 33 ug/kg. The distributions of samples exceeding screening values for copper, iron, and zinc are depicted in Figures 5-13 through 5-15.

Sample results are compared to background (South Fork New River upstream of Peak Creek) values in Table 5-21. The concentrations of metals in most samples collected from the right channel and some samples collected from the center channel of South Fork New River downstream of the Peak Creek confluence exceeded background values for aluminum,

chromium, cobalt, copper, iron, lead, manganese, nickel, vanadium, and zinc. Maximum values downstream were higher than background by factors of three or more for most of these metals (maximum values for copper, iron, and lead were higher than background by factors of 58, 13, and 10, respectively).

5.5.5 Flow Weighted Mass Loadings

Stream flow measurements were taken at 9 locations (see Figure 3-1) to allow calculation of contaminant loadings in the streams draining from the Ore Knob site. Table 3-4 provides a summary of discharge calculations at each of these locations.

Analytical data for selected metals were used in conjunction with discharge calculations to compute mass loadings at each flow measurement location. In most cases, analytical results from a single surface water sample were applied to the flow measured at that location. For these locations, mass load was computed as:

$$L = Q*C*CF \quad (1)$$

where,

L is the mass load expressed in lbs/day,
Q is the stream discharge expressed in cfs,
C is the constituent concentration expressed in ug/L, and
CF is a conversion factor to convert units to lbs/day

Flow-weighted loadings were calculated along transects with multiple samples (OK016, OK018, and OK019). In these cases, mass load was computed using equation (1) for discrete segments of the stream based on the number of flow and water quality measurements. Total load at each transect was computed by summing the loads for each segment. The amount of discharge applied to each segment and the calculated mass loadings for each segment are shown in Table 5-22 (dissolved metals, acidity, sulfate, TDS) and Table 5-23 (total metals). Flow-weighted mass loadings for Ore Knob Branch, Little Peak Creek, Peak Creek, and South Fork New River are shown on Figure 5-16.

The results of the mass load analysis are summarized in Table 5-24. Despite having a discharge of only 0.39 cfs, Ore Knob Branch was contributing an estimated 319 lbs/day of dissolved metals to Peak Creek at the time of sampling, including 12.3 lbs/day of aluminum, 0.4 lbs/day of copper, 300 lbs/day of iron, 5.3 lbs/day of manganese, and 1.2 lbs/day of zinc. In addition, Ore Knob Branch was contributing about 1,100 lbs of acidity and nearly 2,400 lbs of sulfate to Peak Creek on a daily basis. Little Peak Creek was contributing only minor amounts of dissolved metals to Peak Creek (5.2 lbs/day), including 0.2 lbs/day of aluminum, 0.8 lbs/day of iron, 3.8 lbs/day of manganese, and 0.3 lbs/day of zinc. Peak Creek, in turn, was contributing approximately 167 lbs/day of dissolved metals to South Fork New River, including 24.2 lbs/day of aluminum, 1.4 lbs/day of copper, 126 lbs/day of iron, 12.2 lbs/day of manganese, and 2.9 lbs/day of zinc. Peak Creek was also contributing an estimated 1,140 lbs/day of acidity and 2,995 lbs/day of sulfate to South Fork New River.

The amount of dissolved metals contributed by Ore Knob Branch and Little Peak Creek to Peak Creek on a daily basis (324 lbs) is significantly more than the amount of dissolved metals discharging from Peak Creek to South Fork New River (167 lbs/day). This indicates that nearly half of the metals added to the stream are sequestered either by precipitation, sorption, or other means as water flows through the Peak Creek channel.

Upstream of the Peak Creek confluence, South Fork New River was carrying 228 lbs of dissolved metals and 4,273 pounds of sulfate daily (as discussed in Section 5.5.4.1, there is some question about the sulfate values reported for the river) (Table 5-24). Metals and sulfate discharging to the river from Peak Creek represent a 70 percent increase over the upstream values in the river.

The amount of metals conveyed to Peak Creek and South Fork New River were far above those that would be contributed if stream concentrations were at background levels. Tables 5-22 and 5-23 summarize the mass loading increases using background concentrations for each stream. Based on these values, Ore Knob Branch would be expected to contribute 0.3 lbs of dissolved metals and 5.6 lbs of sulfate daily; Little Peak Creek should contribute 2.1 lbs of dissolved metals and 17 lbs of sulfate daily; and upstream Peak Creek should contribute 7.7 lbs of dissolved metals and 134 lbs of sulfate daily. Consequently, under background conditions, Peak Creek would contribute 10.1 lbs of dissolved metals and 157 lbs of sulfate daily to South Fork New River. The increased load caused by mining disturbances in the Ore Knob Branch and Little Peak Creek watersheds results in an annual discharge of 28.6 tons of dissolved metals and 518 tons of sulfate to South Fork New River.

5.6 Residential Samples

5.6.1 Drinking Water Wells

Samples were collected from seven private wells on or near the former Ore Knob mine site; five of the wells are located between the 19th century operations area and the former mill site (OK702, OK704, OK705, OK706, and OK707), one is south of the 19th century operations area (OK703), and one is off-site at the Roan Creek Church ~1.5 miles southwest of the site on highway 88 (OK701) (see Figure 3-5 for locations and Table 3-6 for descriptions).

All samples of residential well water were analyzed for total metals, total acidity, total alkalinity, sulfate, chloride, total dissolved solids, total suspended solids, semi-volatile organic compounds, volatile organic compounds, and field parameters of pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity. Analytical results are presented in Table A.5-2 of Appendix A.

Table 5-25 compares sample results to maximum contaminant levels (MCLs) from EPA National Primary Drinking Water Standards (EPA, 2003b) and to National Secondary Drinking Water Standards (EPA, 2003b) for contaminants not included in the primary list (aluminum, iron, manganese, zinc, pH, chloride, and sulfate). None of the residential well samples exceeded primary drinking water standards. However, several wells did exceed secondary standards for iron, manganese, pH, and sulfate. Samples from OK702 and OK706 exceeded criteria for total

iron by factors of more than 19 and total manganese by factors exceeding 127. These samples also exceeded the criterion for sulfate by factors of less than 2. Three other wells exceeded the standard for total manganese, but only OK707 did so by a factor of more than 2 (factor of 38). The lowest pH (5.35 s.u.) was recorded from the well located between the mill site and 19th century operations area (OK702). The highest pH was noted in the off-site well, OK701 (7.17 s.u.).

Semi-volatile organic compounds and volatile organic compounds were below detection limits in all samples. Three SVOC (benzo(a)pyrene, hexachlorobenzene, and pentachlorophenol) were reported as non-detected at detection limits exceeding drinking water criteria and could not be evaluated. Similarly, four VOC (carbon tetrachloride, 1,2-dichloroethane, 1,1,2-trichloroethane, and vinyl chloride) were reported as non-detected at detection limits exceeding drinking water criteria and could not be evaluated.

5.6.2 Residential Soil

Soil samples were collected from two residential properties along Little Peak Creek Road and one along Ore Knob Road (Figure 3-3). Two of the samples were described as medium brown sandy silt with abundant organic detritus, whereas a third sample (from location OK408) was described as consisting of orange-brown clayey sand with minor gravel. The samples, which were collected from 0 to 6 inches depth using hand augers, were analyzed for total metals, total cyanide, and SVOC. Two samples were additionally analyzed for PCB aroclors and one sample was analyzed for VOC. Analytical results are provided in Table A.5-1 of Appendix A. As shown in the table, results for antimony, selenium, and silver, in one of three samples and PCB aroclors in one of two samples were rejected during data validation.

The residential soils have low to moderate concentrations of copper and iron and low concentrations of most other metals. The sample collected from the Ore Knob Road residence had significantly higher copper than the other residential soil samples (Cu of 1800J mg/kg vs. 17J and 170J mg/kg). Total cyanide, PCB aroclors, and VOC were below detection in all samples analyzed for these constituents. Benzaldehyde was the only detected SVOC and was measured at low a concentration in one sample.

Residential soil samples were compared to EPA Region 6 human health screening values for residential soil and outdoor industrial worker soil (EPA, 2008), EPA Region 4 ecological risk values for soil (EPA, 2001), and average background soil samples collected in the Ore Knob area. Results of these comparisons are shown in Tables 5-9 and 5-10.

One sample exceeded the residential and industrial outdoor worker soil screening values for arsenic (cancer-risk value) and one sample exceeded the residential soil screening value for iron (the two exceedences were not from the same yard). Several heavy molecular weight PAH compounds were reported as non-detects at detection limits exceeding screening values and could not be evaluated.

All residential soil samples exceeded ecological risk screening values for aluminum, total chromium, iron, manganese, and vanadium, and a subset of these also exceeded values for

copper, mercury, and zinc. Several light and heavy molecular weight PAH compounds were reported as non-detects at detection limits exceeding screening values and could not be evaluated.

The copper concentration of the average residential soil sample exceeded the average background soil sample from the Ore Knob area by a factor of 17.2. In addition, average residential soils exceeded average background soil by factors of 1.1 to 2.6 for aluminum, barium, chromium, cobalt, iron, lead, manganese, mercury, nickel, vanadium, and zinc. Figures 5-4 through 5-6 illustrate the distribution of background exceedences for these soil samples.

5.7 Summary of Sampling Results

The following summarizes important observations regarding the results of soil, mine waste, sediment, seep, surface water, and residential well sampling at the Ore Knob site:

Background Soil

- Six background soil samples were collected from different parts of the 19th century and 1950s mill site areas. Several background soil samples had arsenic concentrations exceeding the cancer-risk screening values for residential soil and industrial outdoor worker soil; one of six samples exceeded the residential soil screening value for iron. Several PAH compounds could not be evaluated against screening values. Background soils exceeded ecological risk soil screening values for a variety of metals.

Waste Rock and Slag Dumps in the 19th Century Operations Area

- Waste rock dumps are present around the former Engine shaft, former adits, and other shafts; most dumps are unvegetated. Waste rock dumps are compositionally variable but characterized by high concentrations of copper and iron and moderate to high concentrations of aluminum, chromium, cobalt, manganese, selenium, vanadium, and zinc. Most waste rock is moderately acid-generating. PAH compounds were detected in one sample from the shaft 2-S dump.

- A pot slag dump is present on the north side of the 19th century mill and smelter. Slag has high concentrations of cobalt, copper, iron, manganese, and zinc. The slag is not expected to be acid-generating. PAH compounds were detected in low concentrations in slag samples. TCLP leach testing indicates that the slag does not have the characteristic of hazardous waste.

- Most waste rock and slag samples exceeded residential and industrial outdoor worker soil screening values for iron and a few samples exceeded residential soil screening values for aluminum, copper, manganese, zinc, and benzo(a)pyrene. Several PAH compounds could not be evaluated against screening values. Waste rock and slag samples exceeded ecological risk soil screening values for a variety of metals.

- Average waste rock and slag samples exceeded average soil background by factors of three or more for barium, cobalt, copper, iron, manganese, and zinc.

Other Processed Materials in the 19th Century Operations Area

- Samples were collected from four piles of materials that were processed in some manner or areas where processing operations are thought to have taken place. These processed materials are all expected to be mildly to moderately acid-generating.

- All samples of processed material from the 19th century mill and smelter area exceeded the residential soil screening value for iron; the crushed and calcine-like materials also exceeded the industrial outdoor worker soil screening value for iron. The calcine-like material additionally exceeded screening values for copper and benzo(a)pyrene. Numerous PAH compounds could not be evaluated against screening values. Most of these samples exceeded ecological risk soil screening values for a variety of metals.

- The average of the processed materials exceeded average soil background by factors of three or more for copper, iron, lead, and zinc.

Soils on the 19th Century Mill and Smelter Site

- Soils on the 19th century mill and smelter site have slightly to moderately elevated concentrations of chromium, cobalt, copper, iron, lead, nickel, vanadium, and zinc. These soils are not expected to be acid-generating.

- Most soil samples from the 19th century operations area exceeded residential soil screening values for arsenic (cancer-risk) and one exceeded the screening value for iron. Three samples exceeded the industrial outdoor worker soil screening value for arsenic (cancer-risk) and one exceeded the screening value for iron. These soils exceeded ecological risk screening values for a variety of metals.

- Soil samples from north of the roaster area and within the smelter foundation exceeded residential soil and ecological risk screening values for several PAH compounds. In most samples, PAHs could not be evaluated against screening values.

- Average 19th century soil exceeded average soil background for copper by a factor of seven. The average concentrations of several other metals exceeded average background by factors of 1.6 to 2.2.

Tailings Disposal Area near the 1950s Mill Site

- Samples of oxidized mill site tailings and eroded tailings are strongly acid-generating and characterized by high concentrations of copper, iron, and zinc.

- All samples of tailings and eroded tailings exceeded residential and industrial outdoor worker soil screening values for arsenic (cancer-risk). Three samples exceeded the

residential screening value for iron, two samples exceeded the industrial outdoor worker screening value for iron. One of five samples exceeded the residential soil screening values for copper and zinc. Tailings and eroded tailings samples exceeded ecological risk soil screening values for a variety of metals. Several PAH compounds could not be evaluated against screening values.

- Average tailings and eroded tailings exceeded average background soil values by a factor of three or more for cobalt, copper, and zinc.

Ore Bins on the 1950s Mill Site

- The average ore sample is characterized by extremely high concentrations of copper and high concentrations of iron. The material is strongly acid-generating.

- Both ore samples exceeded residential and industrial outdoor worker soil screening values for arsenic (cancer-risk) and iron; the samples exceeded residential screening values for copper. Ore samples exceeded ecological risk screening values for a variety of metals.

- The average ore sample exceeded average background soil by factors of three or more for cobalt, copper, iron, mercury, selenium, silver, and zinc.

Soils on the 1950s Mill Site

- The average soil sample from the 1950s mill site is characterized by high concentrations of copper and moderate concentrations of iron and zinc. Samples from the freshwater pond area may be mildly acid-generating.

- PCB compounds were detected in two samples from the flotation plant area. Neither sample exceeded human health soil screening values. A variety of PAH compounds were detected in samples from the transformer area, electrical shop area, and downslope of the electric shops. Lower concentrations of heavy PAH compounds were identified in samples from the area of ore bins and the flotation plant.

- Most soil samples from the 1950s mill area exceeded residential soil screening values for arsenic (cancer-risk) and a few samples exceeded screening values for copper, iron, thallium, and zinc. A few samples exceeded residential screening values for several PAH compounds. A few samples exceeded industrial outdoor worker soil screening values for arsenic (cancer-risk), iron, and benzo(a)pyrene. These soil samples exceeded ecological risk screening values for a variety of metals. PAH compounds could not be evaluated against screening values for most samples.

- Average soil from the 1950s mill area exceeded average background soil by factors of five or more for copper, cobalt, and zinc.

Tailings Impoundment and Adjacent Soils

- Tailings samples were collected from eight locations in the main tailings impoundment. The tailings are strongly acid-generating; the average sample is characterized by high concentrations of cobalt, copper, and iron and moderately elevated concentrations of numerous other metals.

- All tailings samples exceeded residential soil screening values, and most exceeded industrial outdoor worker soil screening values for arsenic (cancer-risk) and iron; one sample exceeded the residential soil screening value for copper. Tailings samples exceeded ecological risk screening values for a variety of metals. Several PAH compounds could not be evaluated against screening values.

- The average tailings sample exceeded average background soil by a factor of three or more for arsenic, cadmium, cobalt, copper, iron, mercury, selenium, and zinc.

- Soil samples collected from two locations adjacent to the tailings impoundment contained low concentrations of most metals. Both samples exceeded residential soil screening values for arsenic (cancer-risk), but did not exceed any other human health screening values. The soil samples exceeded ecological risk screening values for a variety of metals. Several PAH compounds could not be evaluated against screening values.

Tailings Dam Seeps

- Seep samples collected from three locations on the tailings dam face are characterized by extremely high concentrations of total and dissolved aluminum, calcium, iron, magnesium, manganese, potassium, sodium, zinc, and hardness, and moderately high concentrations of several other metals. The seeps also have extremely high concentrations of total acidity, sulfate, and dissolved solids, and high specific conductance; pH and redox potential are variable.

- All of the seeps exceeded surface water quality criteria by factors of five or more for aluminum, copper, iron, manganese, silver, and zinc. The seeps also exceeded ground water criteria for sulfate by factors greater than 16.5. The westernmost seep exceeded ground water and surface water criteria for cadmium and chromium.

Tailings Pond Water

- All four surface water samples collected from ponds on the tailings impoundment exceeded water quality criteria for aluminum and iron, three of the samples exceeded criteria for copper, manganese, and pH.

- All tailings pond water samples exceeded Peak Creek background concentrations by at least of factor of three for cobalt, iron, and manganese.

Ore Knob Branch Surface Water

- Surface water samples collected above the tailings impoundment are characterized by moderate concentrations of total and dissolved metals and moderate to low total hardness, total acidity, total sulfate, and total dissolved solids.

- Surface water samples collected below the tailings impoundment have moderately to extremely high concentrations of total and dissolved metals, total hardness, total acidity, total sulfate, and total dissolved solids. Most constituent concentrations exhibit slight decreases as water flows from below the tailings dam to the confluence with Peak Creek. Surface water below the impoundment is characterized by acidic pH, high specific conductance, and is strongly oxidized.

- All surface water samples exceeded water quality criteria for aluminum, cadmium, copper, manganese, zinc, and pH. The three samples below the impoundment also exceeded criteria for iron.

- All surface water samples exceeded regional (Peak Creek) background concentrations by at least a factor of four for aluminum, cadmium, cobalt, copper, manganese, nickel, and zinc. The three samples below the impoundment exceeded background concentrations by higher factors for these metals and exceeded background for iron by factors greater than 47. There was a decrease in pH by more than two log units from the point where Ore Knob Branch enters the tailings impoundment (5.49 s.u.) to immediately below the impoundment (2.87 s.u.) and at the confluence with Peak Creek (2.86 s.u.).

Ore Knob Branch Headwaters Seeps

- Samples were collected from two seeps that form the headwaters of Ore Knob Branch, originating in the vicinity of five sealed/blocked adits between the 19th century operations area and the tailings impoundment. The seeps are characterized by moderate to high concentrations of total and dissolved aluminum, calcium, cobalt, copper, magnesium, manganese, zinc, and hardness.

- The seep that flows through a limestone-lined channel had pH that was higher than the other seep by more than one log unit, consistent with the effects of limestone treatment. However, both seeps contained excess acidity suggesting that the installed anoxic limestone drains are only partly effective in treating the mine drainage.

- Seep samples exceeded ground water and surface water quality criteria by at least a factor of five for aluminum, cadmium, copper, and manganese. The seeps also exceeded surface water criteria for zinc by a factor of 38. Both seeps exhibited pH lower than the acceptable ground water and surface water ranges.

Ore Knob Branch Sediment

- All sediment samples exceeded ecological sediment screening values for copper, iron, and mercury. One to three of the samples exceeded screening values for a variety of other metals. PAH compounds were detected in low concentrations in the sample collected upstream of the tailings impoundment, but at concentrations below ecological screening values.

- The sediment sample collected just within the boundary of the tailings impoundment exceeded background concentrations by at least a factor of three for aluminum, cobalt, copper, iron, mercury, and zinc. This sample is likely composed of a high percentage (or entirely) of tailings material. One or more sediment samples exceeded background for a variety of additional metals.

Ore Knob Floodplain Soils

- Floodplain soil samples from Ore Knob Branch are characterized by moderate to high concentrations of copper and iron and are expected to be mildly acid-generating.

- The three floodplain soil samples exceeded residential soil screening values for arsenic (cancer-risk) and iron; two of these samples additionally exceeded the industrial outdoor worker soil screening values for arsenic (cancer-risk) and iron. These soil samples exceeded ecological risk screening values for a variety of metals. Several PAH compounds could not be evaluated against screening values.

- The average floodplain soil sample exceeded the average background soil by factors of three or more for cobalt, copper, and iron.

Little Peak Creek Surface Water

- Surface water samples collected from Little Peak Creek above the Low Gap Branch confluence are characterized by low to moderate concentrations of total and dissolved metals, and moderate to low total hardness, total acidity, total sulfate, and total dissolved solids. These samples have near neutral to moderately acidic pH and are slightly to strongly oxidizing.

- The surface water sample collected below the Low Gap Branch confluence has comparatively low concentrations of total and dissolved metals, total hardness, total acidity, total sulfate, and total dissolved solids. This surface water has neutral pH, low specific conductance, and is moderately oxidized. Most constituents in lower Little Peak Creek are approximately twice those in Low Gap Branch.

- Surface water samples from the impacted portion of Little Peak Creek (not including Low Gap Branch) exceeded water quality criteria for aluminum, copper, and manganese. Samples upstream of the confluence with Low Gap Branch also exceeded criteria for zinc and pH.

- All three of the surface water samples from the impacted portion of Little Peak Creek exceeded background concentrations by at least a factor of four for cobalt, copper, manganese, and zinc. One or more samples exceeded background for numerous other metals.

Little Peak Creek Sediment

- All sediment samples (excluding Low Gap Branch) exceeded ecological sediment screening values for copper and iron; the sample collected just above the Peak Creek confluence additionally exceeded the screening value for manganese. Sediment in Low Gap Branch did not exceed any screening values.

- All four sediment samples exceeded Low Gap Branch background concentrations by at least a factor of two for copper, iron, and zinc.

Little Peak Creek Floodplain Soils

- Floodplain soils from Little Peak Creek have low to moderate concentrations of copper and iron and low concentrations of most other metals. The sample below the former freshwater pond has significantly higher concentrations of copper and iron than the downstream samples.

- Two of the three floodplain soil samples exceeded residential and industrial outdoor worker soil screening values for arsenic (cancer-risk) and one sample exceeded the screening values for iron. These soil samples exceeded ecological risk screening values for a variety of metals. Several metals and PAH compounds could not be evaluated against screening values.

- The average Little Peak Creek floodplain soil sample exceeded the average background soil by factors of three or more for copper and iron.

Peak Creek Surface Water

- The surface water sample collected from above the Ore Knob Branch confluence is characterized by low concentrations of total and dissolved metals and low total hardness, total acidity, total sulfate, and total dissolved solids. This surface water has neutral pH, low specific conductance, and is slightly oxidizing.

- Samples collected across the Peak Creek channel below Ore Knob Branch have widely variable compositions indicative of partial mixing of the two streams. In all cases, samples collected from the left bank of Peak Creek have significantly higher concentrations than those on the right bank, reflecting the inflow of Ore Knob Branch on the left bank.

- Surface water in Peak Creek above and below the Little Peak Creek confluence has moderate concentrations of metals, total hardness, total acidity, total sulfate, and total

dissolved solids. However, pH remains similarly acidic to surface water just below the confluence with Ore Knob Branch.

- Inputs predominantly from Ore Knob Branch and, to a much smaller extent, Little Peak Creek increase the concentrations of many dissolved metals by factors of more than ten. The inputs double stream hardness, increase sulfate by a factor of 18, lower pH by three log units, and significantly raise redox potential.

- Surface water samples collected downstream of Ore Knob Branch exceeded water quality criteria for aluminum, copper, iron, manganese, zinc, and pH. The sample collected above Ore Knob Branch exceeded water quality criteria for aluminum.

- Six of the seven samples from Peak Creek downstream of Ore Knob Branch (not including the right bank immediately downstream of the confluence) exceeded background concentrations by at least a factor of seven for cobalt, copper, iron, manganese, and zinc.

Peak Creek Sediment

- The sediment sample collected from Peak Creek upstream of Ore Knob Branch contained low to moderate concentrations of metals.

- Sediment collected from the transect immediately below Ore Knob Branch had extremely high concentrations of several metals. Cross-channel variation was very high, with many metals varying by more than an order of magnitude. In contrast to surface water, sediment concentrations were typically highest in the center or right channel, likely reflecting variations in stream velocity.

- Sediment samples collected from the transect just above South Fork New River typically had the lowest metals concentrations.

- All Peak Creek sediment samples exceeded ecological sediment screening values for copper and iron; a smaller subset of samples exceeded screening values for a variety of other metals. The sediment sample collected above Ore Knob Branch exceeded screening values for copper, iron, manganese, and zinc, although at much lower concentrations than samples downstream of the confluence.

- Most samples collected from the transect downstream of Ore Knob Branch exceeded upstream background sediment concentrations for arsenic, chromium, cobalt, copper, iron, lead, nickel, selenium, and zinc. Sediment collected from just above South Fork New River did not exceed background concentrations.

Peak Creek Floodplain Soil

- Floodplain soil samples from Peak Creek have low concentrations of most metals. PAH compounds were measured in low concentrations in one sample.

- One of the floodplain soil samples exceeded the residential soil screening value for arsenic (cancer-risk). Floodplain soil exceeded ecological risk screening values for a variety of metals. Several PAH compounds could not be evaluated against screening values.

- The average floodplain soil from Peak Creek is at or below average background soil concentrations.

South Fork New River Surface Water

- The surface water sample collected above the Peak Creek confluence is characterized by low concentrations of total and dissolved metals, and low total hardness, total sulfate, and total dissolved solids. This water has neutral pH, low specific conductance, and is slightly oxidizing.

- Samples collected across the South Fork New River channel have slightly variable compositions indicative of partial mixing with Peak Creek. For most metals, samples from the right bank of the river have slightly higher concentrations than those on the left bank, reflecting the inflow of Peak Creek on the right bank (the right-bank location was 20 feet or more from the bank, so may have missed the more unmixed water from Peak Creek that may have been closer to the right bank at that location). Variation in pH is slightly more than one log unit across the channel, with the lowest pH along the right bank.

- Surface water samples upstream and downstream of the confluence with Peak Creek exceeded water quality criteria for total aluminum. Note that dissolved aluminum in these samples was consistently less than the criterion. Several SVOC could not be evaluated against water quality criteria.

- Several samples downstream of Peak Creek contained higher concentrations of total cobalt, copper, and manganese compared to the upstream sample. Concentrations of dissolved copper, iron, manganese, and zinc are higher in most downstream samples, with the highest concentrations occurring in samples from the right bank of the channel immediately downstream of the Peak Creek confluence.

South Fork New River Sediment

- The sediment sample collected above the Peak Creek confluence contained low concentrations of metals. In contrast, sediment collected from the right and center channel below Peak Creek had low to moderate concentrations of metals.

- The sediment sample collected furthest downstream of the Peak Creek confluence had the highest concentrations of chromium, copper, iron, and lead of all samples collected in South Fork New River.

- The sample from upstream of Peak Creek exceeded ecological sediment screening criteria for mercury. Three samples collected downstream of the confluence exceeded screening values for copper and iron; one sample exceeded screening values for a variety of other

metals. PCB aroclor 1260 was slightly above the screening value in a sample from the right channel downstream of Peak Creek.

- Most samples from the right channel and some from the center of the river downstream of Peak Creek exceeded background values for aluminum, chromium, cobalt, copper, iron, lead, manganese, nickel, vanadium, and zinc. Maximum values downstream were higher than background by factors of three or more for most of these metals.

Residential Drinking Water

- Residential well samples were collected from seven wells: six on the Ore Knob site and one off-site. None of the samples exceeded primary drinking water standards. However, several wells did exceed secondary standards for iron, manganese, pH, and sulfate. Several SVOC and VOC could not be evaluated against drinking water standards.

Residential Soil

- Soil samples collected from three nearby residential properties had low to moderate concentrations of copper and iron and low concentrations of most other metals. Benzaldehyde was the only detected SVOC and was measured at a low concentration in one sample.

- One soil sample exceeded residential and industrial outdoor worker soil screening values for arsenic (cancer-risk) and one sample exceeded the residential screening value for iron. Residential soil samples exceeded ecological risk screening values for a variety of metals. Several PAH compounds could not be evaluated against screening values.

- Average residential soil exceeded the average background soil for copper by a factor of 17.2. Residential soil exceeded background values for a variety of other metals by factors of 1.1 to 2.6.

6.0 CONTAMINANT SOURCES, RELEASE, AND MIGRATION

This section briefly discusses contaminant sources identified by field sampling, mechanisms by which contaminants may be released to the environment, and the migration of contaminants through surface water, ground water, soil, and air.

6.1 Contaminant Sources

Contaminant sources include those materials that exceed human health and ecological screening criteria as described in Section 5. Because natural mineralization can cause these screening criteria to be exceeded, the identification of contaminated sources should also view analytical results within the context of the natural soil and water background variation. Preliminary background soil and water values were obtained during this study, but additional work is required to better define these parameters.

Primary contaminant sources are scattered throughout the former Ore Knob mine and mill site. Sources identified in the 19th century mine and mill area include dumps of waste rock, slag, and other processed materials, soils in the area of the former smelter and other processing areas, and seeps discharging from adits. Sources identified in the 1950s mine and mill area include tailings, soils in and around numerous former mine facilities, and piles of crushed ore. Sources identified in the tailings impoundment area include tailings solids and ground water seeps that emerge from the face of the tailings dam. Deep ground water within the mine workings, which is likely to represent another primary contaminant source, was not investigated.

Secondary contaminant sources occur in off-site areas and were transported to these sites by wind and water. Secondary sources include contaminated sediment in the substrates of Ore Knob Branch, Little Peak Creek, Peak Creek, and South Fork New River. In addition, contaminated sediment is present in the settling basin below the tailings impoundment and in the basin of the former freshwater pond. Other areas of contaminated sediment may be present in ephemeral streams and gullies but these were not extensively investigated. Other secondary sources of contamination include floodplain soil and sediments, particularly along Ore Knob Branch, which includes a significant proportion of tailings.

Contaminated surface water flowing from the site represents a secondary contamination source that directly affects the receiving waters of Peak Creek and South Fork New River. Surface water is contaminated by contact and interaction with the primary sources and exposure to secondary sources.

6.2 Contaminant Release Mechanisms

Most contaminant sources described above hold contaminants in solid form. Contaminants may be released from these and other chemical reservoirs through a variety of processes that include physical weathering and erosion, chemical weathering, biological weathering, and desorption.

6.2.1 Contaminant Release by Physical Weathering and Erosion

Contaminants can be released from source areas by physical weathering and erosion. Physical weathering involves mechanical breakdown of contaminant sources into smaller pieces through frost wedging, thermal expansion, and exfoliation.

Contaminants can be released from physically weathered sources and sources composed of unconsolidated granular materials by wind or water erosion. Eroded contaminants will remain as particulates but are subject to comminution (being reduced to smaller grain size) during transport. Comminution is an important process because it increases the surface area of contaminant particles making them more susceptible to chemical weathering. Erosion is a significant process for unconsolidated and unvegetated sources areas such as the tailings impoundment, waste rock and slag dumps, and some soil areas at Ore Knob.

6.2.2 Contaminant Release by Chemical Weathering

Contaminants can be released from source areas (including instream sediment and floodplain soil) by chemical weathering. This process chemically breaks down source materials by adding or removing elements through chemical reactions, most of which involve water. Three processes are important in most chemical weathering environments: oxidation, dissolution, and hydrolysis.

Oxidation of iron-bearing sulfide minerals such as pyrite (FeS_2), pyrrhotite ($Fe_{1-x}S$), and chalcopyrite ($CuFeS_2$) is well-known to produce iron, sulfate, and acidity under unsaturated but moist conditions. These minerals were important components of the ore mined at Ore Knob and are present in sources such as waste rock, crushed ore, and tailings. The acidity assists in breaking down other metal sulfides (e.g., galena [PbS] and sphalerite [ZnS]) and can cause metals bound to clays or organic detritus to desorb and be released from their hosts. As a result, acidic waters are typically rich in numerous dissolved metal species. Metals liberated by the oxidation process enter surface and ground water as dissolved species, but they may precipitate as intermediate sulfate or hydroxide phases if conditions dictate.

Dissolution releases contaminants by removing soluble minerals. Minerals comprising most mine waste and by-product materials are not readily soluble. However, many types of mine waste and sediment in the Ore Knob area contain metal-bearing sulfide minerals that are subject to oxidation (see above). In these materials, secondary mineral salts rich in metals may form as intermediate products during the oxidation step, particularly in unsaturated conditions. Typically, these secondary salts are highly soluble and can be dissolved by ground water, surface water, or infiltrating rain water to release the stored metals and acidity to the environment.

Hydrolysis is the process by which minerals react with water. This type of weathering is expected to be especially important for pot slag waste found on the 19th century mine site, which is composed mostly of iron-silicate glass. Glass is a metastable solid and subject to hydration that is accompanied by the loss of certain ions to solution. Hydrolysis of dissolved ferric iron can cause precipitation of ferric hydroxide or ferric hydroxysulfate phases which create an orange precipitate like that observed on streambeds in the Ore Knob area. These and other

secondary phases of aluminum and manganese sorb dissolved metals from solution and will hold these contaminants until chemical conditions change or the phases recrystallize.

6.2.3 Contaminant Release by Biological Weathering

Biological weathering is caused by the action of living organisms and is expected to play a secondary role in contaminant release that is related to chemical oxidation described in the previous section. Iron-metabolizing bacteria speed the conversion of ferrous iron to ferric iron and can increase the rate at which pyrite oxidizes by several orders of magnitude. This, in turn, generates significant acidity that speeds the release of contaminants from source material.

6.2.4 Contaminant Release by Desorption

Adsorption is a general term that describes the processes by which ionic species are held to a mineral surface by electrical forces. Desorption is the release of these metals back into solution. The extent to which metals are sorptively held to sediment particles depends on pH, temperature, oxidation state, crystallinity, and the concentrations of precipitating minerals or sediment particles. Studies of sediment components in aquatic systems show that mineral precipitates (e.g., iron oxyhydroxide, aluminum hydroxide, and manganese oxide), clays, and organic matter are prone to adsorbing dissolved metal species. Changes in the chemical parameters listed above can cause contaminants to desorb from their hosts and be released into water.

6.3 Potential Contaminant Migration Routes

Potential routes of contaminant migration at the Ore Knob mine site include surface water transport as suspended load and bedload, surface water transport as dissolved load, ground water transport as dissolved load, wind transport, and biological migration.

6.3.1 Surface Water Transport as Suspended Load and Bedload

Contamination in the suspended load and bedload can occur by a variety of processes including:

- Resuspension of contaminated sediment from stream bottoms
- Erosion of contaminated sediment from sediment bars
- Transport of suspended load from tributary drainages.

The transport of suspended load and bedload particles is sensitive to flow velocities, which vary laterally across a stream channel, as a function of channel slope and depth, and in response to features that disrupt currents, such as boulders, logs, or other obstructions. The particle sizes that can be transported as a suspended load (fully entrained) or bedload (rolling or bouncing along the substrate) are coarser for higher flow velocities.

Increased flow velocity caused by runoff during storm events can resuspend and transport contaminated sediment from a streambed and scour material from the margins of sediment bars, increasing turbidity and suspended solids. The amount of sediment redistributed by a given flow

velocity depends on sediment particle size and density, with small particles moved most easily. Entrained particles will remain suspended until water velocity drops below the threshold value needed to keep a given particle size suspended. The transport of contaminants in sediments from potential source areas varies from stream to stream, depending on velocity and grain size.

6.3.2 Surface Water Transport as Dissolved Load

Contaminants such as metals can be dissolved and carried downstream by surface water. Constituents that are dissolved into surface water are present as positively or negatively charged ions and they will remain in solution until physical or chemical conditions change and cause them to be removed from solution by precipitating as solid phases, sorbing onto mineral or organic materials, or forming solid complexes with other ligands. The concentrations of dissolved constituents in water depend on numerous chemical factors including mineral solubility, water pH, oxidation state, and the concentrations of complexing ligands and sorptive phases. Contaminants enter a surface water body through spills or discharge points (point source), from tributary streams that convey contaminated water (point source), from contaminated ground water that gains to a water body (point or nonpoint source), by dissolving contaminants contained in substrate sediment or stream bank soils (nonpoint source), or by atmospheric deposition (nonpoint source).

The effect of contamination of a stream from a point source in a closed system can be computed as the mass load (in units of mass per time) in which:

$$Q_{bkg}C_{bkg} + Q_{source}C_{source} = Q_{contam}C_{contam} \quad (1)$$

where, Q represents stream discharge (in units of volume per time), C represents the contaminant concentration (in units of mass per volume), and the subscripts bkg, source and contam represent the stream upstream of the contaminant source, the contaminant source, and the stream downstream of the contaminant source, respectively.

6.3.3 Ground Water Transport as Dissolved Load

Similar to surface water, contaminants can be carried as dissolved loads in ground water moving through the subsurface. In general, ground water is not capable of carrying particulate loads, although in some instances extremely fine colloidal particles can be transported through coarsely porous aquifers. Ground water moves in response to pressure gradients (differences in hydrostatic head) at a rate that is governed by the pressure gradient and the transmissivity of the solid material through which the water moves. Contaminants enter ground water through seepage from contaminated surface water, direct discharge or leaks to ground water, water exchange with a contaminated aquifer, or through the dissolution of contaminants from soil, sediment, or rock through which ground water passes.

6.3.4 Wind Transport

Fine-grained materials from source areas may be transported by the wind and released to the atmosphere. Constituents bound to waste materials and surface soils may be transported as

suspended particulates or dust to downwind locations. Factors influencing the potential for dust entrainment into the atmosphere include surface roughness, surface soil moisture, soil particle size, type and amount of vegetative cover, amount of soil surface exposed to the eroding wind force, physical and chemical properties of the soil, wind velocity, and other meteorological conditions. Dust formation may be significant, especially from the tailings impoundment, during extended periods of dry weather.

6.3.5 Biological Migration

Plants and animals uptake metals through direct contact or ingestion of food items and may bioaccumulate metals in their tissues. Dispersion of metals occurs throughout the food web from vegetables grown in soils and transferred to humans or from benthic invertebrates in contaminated sediments transferred to fish. This dispersion of metals is not considered a major physical migration pathway, but is a very important exposure pathway to humans and ecological receptors.

6.4 Surface Water Pathway

The Ore Knob former mine site occurs within the lower portion of the Peak Creek watershed, a tributary to the South Fork of the New River. Mining and processing activities occurred primarily in two subwatersheds within the Peak Creek drainage: the Ore Knob Branch subwatershed and the Little Peak Creek subwatershed. Erosion from a small portion of the site additionally could potentially affect a small, unnamed tributary that flows eastward along Highway 88 before joining Peak Creek. The Little Peak Creek and Ore Knob Branch subwatersheds are separated by a bedrock ridge up to 200 feet high in the mine area.

Mining occurred along a mineralized zone that trends east-northeast across the headwaters of these subwatersheds. The Engine shaft, situated atop Ore Knob, a small irregularly shaped hill, was historically one of the most active shafts along the mineralized trend. This shaft is surrounded on the north and south by modest-sized rock dumps and small piles of crushed or otherwise processed materials. Erosion from this high-standing area transports material primarily northward toward Ore Knob Branch, but a small portion of the area drains south to the unnamed tributary to Peak Creek.

6.4.1 Ore Knob Branch

Ore Knob Branch hosts the majority of the historic mining and smelting operations and the 20-acre tailings impoundment used in the 1950s. Historic operations included a mill and smelter, roast yard, support facilities, mine shafts and adits, and dumps of waste rock, slag, and other processed materials. Construction of the tailings impoundment required damming of Ore Knob Branch using waste rock as starter material and tailings as the main dam material. A large volume of tailings now fills the stream valley behind the dam and displaces Ore Knob Branch from its original course. Most of the historic operations occur in upland areas that are nearly 100 feet above and 0.25 miles removed from the stream. Erosion from these areas to the creek occurs either by overland flow or flow through ephemeral gullies. Exceptions are the adits and

an associated waste rock dump, which are located at low elevation in the headwaters of the stream and the tailings impoundment, all of which have direct impacts to Ore Knob Branch.

Ore Knob Branch originates as seepage from several mine adits that have been covered and fitted with anoxic limestone drains to treat acid mine drainage (NCDENR, 1994). One of the two observed seepage channels is formed of limestone cobbles coated with milky white (and locally also blue) precipitates as a result of the neutralization reactions. The second channel does not have a limestone substrate and is coated with orange mineral precipitates. The two channels merge to form the upper perennial reach of Ore Knob Branch. Erosion from a large, unvegetated mound of waste rock adjacent to these channels contributes sediment to the seepage channels and upper Ore Knob Branch. From this point, the creek flows about 0.2 miles in a bermed ditch through a wooded area before emerging at the entry point to the tailings impoundment. Water flows a short distance across fine tailings material before entering a pipe that routes the water beneath the impoundment to its discharge point below the dam.

Ore Knob Branch emerges from the tailings pipe, which is thought to be partly blocked, as an upwelling flow that enters a small sediment retention basin that is mostly filled with tailings eroded from the unvegetated, incised face of the dam. Also entering the retention basin is a small amount of flow from seeps that emerge from the dam face. A significant change in the chemistry of Ore Knob Branch as it flows beneath the tailings indicates that the tailings have a strong impact on creek water. Water in the retention dam discharges through a culvert and enters the channel of lower Ore Knob Branch. This channel flows through a relatively wooded area with a poorly developed floodplain. Erosive transport of tailings material has deposited tailings in the lower channel and floodplain of the creek and precipitation of iron oxyhydroxide minerals has coated the substrate with orange floc.

Ore Knob Branch has a moderate stream gradient in its lower reach and descends about 120 feet from the base of the dam to its confluence with Peak Creek, slightly less than one mile downstream. Under base flow conditions, it discharges less than 0.5 cfs to Peak Creek. However, Ore Knob Branch is subject to short-lived flashy runoff in response to local precipitation events; these events were observed to entrain significant amounts of iron precipitate from the substrate.

6.4.2 Little Peak Creek

The Little Peak Creek watershed hosted the 1950s mining and processing area, which included a main haulage shaft, ore bins, crushing and milling facilities, a flotation separation plant, an electrical substation, and numerous other shops and support facilities. All these facilities were constructed on fill material that probably included development rock from sinking the shaft. In addition, a small (about 4 acres) area north of the flotation plant was used for the disposal of tailings. All of these areas are adjacent to or within a few hundred feet of the stream. North of the processing area, Little Peak Creek was dammed to form a small impoundment referred to as the freshwater pond. Although it is assumed that this pond was used to store process water for the mill, it also trapped sediment eroded from the site. The dam is breached and, although marshy wetlands exist on the upstream side of the dam, it no longer impounds significant amounts of water.

Little Peak Creek also accepts runoff from a portion of the historic mining and processing area, including the former roast yard area, a few secondary shafts, and part of the historic smelter area. These sites occur in upland areas typically more than 100 feet higher and about 0.25 miles east of Little Peak Creek. Erosion from the historic sites requires transport by overland flow or through small ephemeral gullies and drainageways.

The 1950s mining and processing facilities exist at the upstream end of the Little Peak Creek watershed, where the stream is intermittent and locally fed by a small spring which issues from a hillside in the processing area. As this water flows downstream, it accepts runoff and erosion from the mining and processing area and the tailings disposal area, before encountering the former freshwater pond. Downstream of the breached dam, the creek accepts any erosion from the historic mine areas and flow from an intermittent gully and the unnamed, perennially flowing tributary branch originating at Low Gap. The confluence with the Low Gap branch occurs about 1 mile north of the headwaters and Little Peak Creek approximately doubles in size as a consequence. The stream then flows approximately 1.25 miles through a rural residential area before joining Peak Creek.

Little Peak Creek descends approximately 400 feet over its length. Mostly, the stream flows through wooded or agricultural meadow areas. A floodplain is well developed only in flatter terrain, such as near the confluence with the Low Gap branch. Much of the 1950s mine site is poorly vegetated and active disposal of tree stumps and saw mill waste causes sedimentation in the upstream reach. Little Peak Creek conveys about 2.0 to 2.5 cfs to Peak Creek under base flow conditions. The stream responds quickly to precipitation events, with flashy discharge that is significantly less sediment-laden than that of Ore Knob Branch.

6.4.3 Peak Creek

Peak Creek is the downstream receiving water for materials eroded and transported from the Ore Knob mining and processing areas through Ore Knob Branch, Little Peak Creek, and other small, ephemeral streams. Peak Creek originates on Laurel Ridge near the juncture of Ashe, Alleghany, and Wilkes Counties. The upper reaches of the creek are impounded by two small ponds or reservoirs at elevations of about 3,420 feet. The creek flows in a northwesterly direction through a mix of agricultural and rural residential land and descends about 680 feet from its headwaters to its confluence with Ore Knob Branch (a distance of about 7.4 miles).

Material eroded from dumps of waste rock and other processed materials on the south side of the former Engine shaft is transported southward through an ephemeral gully that joins an unnamed perennial tributary to Peak Creek at Highway 88 about 0.6 miles from the dumps. The perennial tributary flows for another mile before discharging to Peak Creek on the north side of the highway. About 0.6 miles below this confluence, Peak Creek crosses the northeastward projection of the trend of mineralization at Ore Knob, where it bends sharply to the east-northeast for a short distance before returning to a northwesterly trend. It is unknown if any natural mineralization is exposed in this area. Throughout most of this reach (and downstream to the Little Peak Creek confluence), the stream flows through steep, wooded terrain adjacent to an improved dirt or asphalt road.

Ore Knob Branch flows into Peak Creek, bringing water with high concentrations of iron and other metals, acidity, and sulfate, and low pH. In addition, the stream conveys sediment with a high proportion of mill tailings. Contaminants from Ore Knob Branch initially hug the left bank of Peak Creek before mixing across the stream with distance. Iron precipitation spurred by reaction between Ore Knob Branch and the higher pH water of Peak Creek causes discoloration and armoring of the Peak Creek substrate downstream of the confluence (precipitates occur on the substrate to South Fork New River).

Little Peak Creek enters Peak Creek about 2.6 miles downstream of the Ore Knob Branch confluence. This stream also conveys mining-related water- and sediment-borne contaminants to Peak Creek, but the effects are less pronounced than those caused by Ore Knob Branch.

Peak Creek continues for 0.25 miles to its confluence with South Fork New River. Through most of this reach, the stream flows through gentle terrain adjacent to woodland and meadows; the stream is conveyed through a constructed channel for the last few hundred feet above the river confluence. Under baseflow conditions, Peak Creek discharges about 10 cfs to South Fork New River through a channel approximately 30 feet wide. The stream responds relatively quickly to precipitation events within its modest-sized watershed. Increases in discharge will move sediment contributed by Ore Knob Branch and Little Peak Creek downstream to South Fork New River.

6.4.4 South Fork New River

Peak Creek discharges to South Fork New River about 5.5 miles downstream of the Highway 88 bridge crossing. The river originates south of Boone, near Blowing Rock, North Carolina, in the Blue Ridge province. The river flows northward and eventually joins North Fork New River. The South Fork New River watershed drains a large area has a slow, muted response to local precipitation events. Widespread events can cause downstream floods with relatively long duration.

The South Fork New River is about 130 feet wide at the Peak Creek confluence with a base flow of 170 to 200 cfs. As noted above, Peak Creek adds about 10 cfs under baseflow conditions, and flow from Peak Creek hugs the right river bank for some distance downstream and deposition of iron precipitate has produced a thin coating of orange iron floc on the river substrate downstream of the confluence.

6.5 Ground Water Pathway

The ground water pathway was not investigated during this study. However, this study did find contaminated surface water and sediment, as well as mine-related soils and wastes that could be potential sources for ground water contamination. Contaminants on the site may enter ground water through seepage from contaminated surface water, direct discharge or leaks to ground water, or through the dissolution of contaminants from soil, sediment, or rock through which ground water passes. The extent to which these contaminants migrate to ground water is unknown.

The Ore Knob former mine site lies within a folded and fractured metamorphic terrain principally made up of mica schist and gneiss and amphibole schist and gneiss. Ground water is presumed to move at least partially by fracture flow through these metamorphic rocks. The extent to which the mine workings contain water (or are full of water), or how ground water migrates along mine-related fractures, is unknown. The lack of a significant number of seeps, especially around the 19th century operations area and 1950s mine and mill site area, indicates that only a small amount of water discharges from the mine workings. It is assumed that the mine water is contaminated, but it is unknown if these contaminants are able to migrate into the ground water aquifer.

Several local residents are dependent on drinking water from wells in and around the 1950s mine and mill site and the 19th century operations area. Although none of the well samples exceeded primary drinking water standards, several did exceed secondary drinking water standards for iron, manganese, pH, and sulfate – this is consistent with the results of the Corps of Engineers investigations in the early 2000s. It is unclear if these higher than recommended metals concentrations in local ground water is a result of mining-related activities or a natural phenomenon derived from regional geology, or both.

6.6 Soil Exposure Pathway

Many of the areas of soil and mine waste contamination that have been identified on-site remain barren and unvegetated. In this setting, they are subject to erosion by wind and water and can be easily ingested by wildlife. The areas are poorly secured and can be easily accessed by trespassers.

Human exposure to contaminated soil can occur through residential, recreational, or industrial activities. Numerous residences are present on the periphery of the former mining and processing site and many border areas where contaminants may occur. In addition, industrial activities occur on the 1950s mine and mill site where contaminated soil and mine wastes are present. Some of these activities include the use of heavy equipment and grading machines which can potentially excavate these contaminants. Recreational use of portions of the area is also known to occur. The tailings impoundment was observed to be used as a recreational camping site and for off-road vehicle use. Moreover, much of the 19th century mine and mill area is leased for use by a hunting club.

Terrestrial wildlife exposure to contaminated soil can occur through direct ingestion of contaminated soil or indirectly through consumption of plants that have taken up contaminants.

6.7 Air Migration Pathway

The air migration pathway was not investigated during this study. However, the tailings impoundment represents a large volume of fine-grained material that can be winnowed by wind and transported off-site to residential, industrial, or agricultural areas. Other contaminated materials, however, such as waste rock and slag dumps, consist of relatively coarse material that is dense and not easily winnowed.

7.0 SUMMARY

This section summarizes the findings of this Expanded Site Inspection report of the Ore Knob former mine site.

7.1 On-Site Contamination

The Ore Knob mine former site was divided into three areas: the 19th century operations area, the 1950s mine and mill site, and the main tailings impoundment.

7.1.1 19th Century Operations Area

The 19th century operations area comprises numerous mine shafts with underground workings, small waste rock dumps near shaft openings, the foundation of a smelter building, a pot slag dump adjacent to the smelter, a former open roast yard area, and numerous small piles of processed materials including calcine-like wastes. Most of these wastes, which are sparsely vegetated to unvegetated, occur in upland areas and are subject to erosion and downslope transport.

Waste rock, slag, and some processed materials contain the highest concentrations of metals. Moreover, waste rock and some of the processed materials were found to be capable of generating low to moderate amounts of acidity that would enhance the release of metals through leaching. Although slag contains high concentrations of some metals, it is not expected to generate acid and thus is less likely to release metals to surface or ground water. Low concentrations of polynuclear aromatic hydrocarbon (PAH) compounds were found in a few samples of waste rock, slag, and soil. A TCLP leach test of the pot slag showed that it is not characteristic of hazardous waste.

Most mine wastes and materials in the 19th century operations area exceeded ecological risk soil screening values for a variety of metals. In addition, most samples of waste rock, slag, and processed materials exceeded residential and industrial outdoor worker soil screening values for iron and a sample of calcine-like material additionally exceeded screening values for copper and benzo(a)pyrene. A few samples also exceeded residential soil screening values for aluminum, copper, manganese, zinc, and benzo(a)pyrene. Most soil samples exceeded cancer-risk screening values for arsenic and soil samples from north of the roaster area and within the smelter foundation exceeded residential soil and ecological risk screening values for several PAH compounds.

7.1.2 1950s Mine and Mill Site

The 1950s mine and mill site covers about 15 acres and comprises the main haul shaft and associated underground workings, the foundations and ruins of a flotation plant, ore bins, support

shops, transformer pads, a four-acre tailings disposal area, a former freshwater storage pond, and other soil areas. Some of the former shops house an active sawmill facility. The area is situated in the headwaters of Little Peak Creek and the tailings disposal area occurs on the margins of the stream. A large proportion of the area has been covered with soil and tree stumps but it remains poorly vegetated.

Samples of ore collected beneath the former ore bins and oxidized mill tailings collected from the disposal area are strongly acid-generating and characterized by high to extremely high concentrations of several metals. The average soil sample from the mill site is characterized by moderate to high concentrations of metals and samples from the freshwater pond may be mildly acid-generating. PCB compounds were detected in two samples from the flotation plant area and a variety of PAH compounds were detected in samples from the transformer area, electrical shop area, and downslope of the electric shops. Lower concentrations of heavy PAH compounds were identified in samples from the area of ore bins and the flotation plant.

Most samples of ore and a few samples of tailings and soil exceeded one or more residential soil screening values for metals including iron, copper, thallium, and zinc. In addition, a few soil samples exceeded residential screening values for several PAH compounds. PCB concentrations did not exceed residential screening values. All samples of tailings, eroded tailings, and ore and most samples of soils additionally exceeded cancer-risk screening values for arsenic and a few tailings and soil samples exceeded industrial outdoor worker screening values for iron and benzo(a)pyrene.

7.1.3 Main Tailings Impoundment

The main tailings impoundment covers roughly 20 acres in the Ore Knob Branch stream valley north of the 19th century operations area. It comprises an estimated 720,000 cubic yards of tailings produced from 1957 to 1962. The impoundment is mostly barren and the face of the dam is deeply incised and erodes directly into the creek. The impoundment hosts three small ponds along its margins; Ore Knob Branch surface water is piped beneath the tailings and through the dam at the downstream end (this pipe was at least partly blocked in summer 2007 but was flowing again later in the year). The upstream reaches of Ore Knob Branch are fed by discharge from (now covered) mine adits that were fitted with anoxic limestone drain treatment systems in the early 1990s.

The tailings are strongly acid-generating and the average sample is characterized by high concentrations of numerous metals. The samples exceeded ecological risk screening values for a variety of metals. Most samples also exceeded the industrial outdoor worker soil screening values for arsenic (cancer-risk) and iron; one sample exceeded the residential soil screening value for copper.

Soil samples collected adjacent to the tailings impoundment contained low concentrations of most metals that exceeded ecological risk screening values for a variety of metals. Both samples exceeded residential soil screening values for arsenic (cancer-risk), but did not exceed any other human health screening values.

Seeps emanating from the face of the tailings dam had extremely high concentrations of several metals, acidity, sulfate, and total dissolved solids. All of the seeps exceeded surface water quality criteria applicable to Ore Knob Branch by factors of five or more for aluminum, copper, iron, manganese, silver, zinc, and sulfate.

Surface water samples collected from ponds atop the tailings impoundment exceeded water quality criteria for several metals and pH.

7.2 Off-Site Contamination

7.2.1 Surface Water, Sediment, and Floodplain Soil

Surface water runoff and seepage from the three former mine site areas is conveyed primarily to Ore Knob Branch and Little Peak Creek, both of which are tributaries to Peak Creek, which flows into the South Fork New River. Samples of surface water, sediment, and floodplain soils collected from these streams illustrate that contamination from the former Ore Knob mine site has migrated to off-site locations.

Ore Knob Branch, a small stream that drains from the main tailings impoundment, conveyed 326 pounds of total metals (mostly iron), 1,098 pounds of acidity, and 2,369 pounds of sulfate per day to Peak Creek. The stream exceeded applicable North Carolina surface water quality criteria for numerous metals and pH. Samples collected from seeps in the headwaters of Ore Knob Branch (treated adit discharge) exceeded ground water and surface water quality criteria applicable to Ore Knob Branch for numerous metals and pH. The bed of Ore Knob Branch maintains a thick coating of iron precipitant (ferricrete) that has embedded the substrate and smothered habitat. In stream sediment and floodplain soils along Ore Knob Branch exceeded ecological screening values for several metals.

Little Peak Creek, a small stream that drains from the 1950s mine and mill area, discharged 12 pounds of total metals (mostly aluminum, iron, and manganese), 164 pounds of acidity, and 256 pounds of acidity per day to Peak Creek. This water exceeded applicable water quality criteria for several metals and locally also exceeded the criterion for pH. Sediment within Little Peak Creek and on its floodplain exceeded ecological risk screening values for several metals.

Peak Creek, a small stream, is designated by the State as a trout water. Upstream of Ore Knob Branch, it supports a stocked trout fishery. In this location, Peak Creek met all applicable surface water criteria except for total aluminum, which it exceeded slightly, but its sediment slightly exceeded ecological risk screening values for several metals. Downstream of the Ore Knob Branch confluence, Peak Creek exceeded applicable surface water quality criteria for several metals and pH, and sediment and floodplain soil samples collected from the stream significantly exceeded ecological risk screening values for numerous metals. The concentrations of a few PAH compounds in floodplain soils were below human health screening values. The stream substrate is significantly affected by iron precipitants from the Ore Knob Branch confluence downstream to the South Fork New River and the stream conveyed 256 pounds of total metals (mostly iron), 1,140 pounds of acidity, and 2,995 pounds of sulfate daily to the South Fork New River.

South Fork New River is a moderate to large river designated by the State of North Carolina as an Outstanding Resource Water and by the United States as a Wild and Scenic River. Samples collected from the river downstream of the Peak Creek confluence exhibited slight cross-channel variations with slightly higher metal concentrations occurring along the right bank below the Peak Creek inflow. Surface water in the South Fork slightly exceeded the applicable criterion for aluminum above and below Peak Creek. River sediment collected above Peak Creek slightly exceeded the ecological risk screening value for mercury; sediment collected below the confluence exceeded screening values for several metals and one sample additionally contained a low concentration of PCB aroclor 1260.

7.2.2 Residential Soil and Drinking Water

Soil samples were collected from three residences adjacent to the former mine site. One sample exceeded residential and industrial outdoor worker soil screening values for arsenic (cancer-risk) and one sample exceeded the residential screening value for iron. Residential soil samples exceeded ecological risk screening values for a variety of metals.

Drinking water samples were collected from seven wells: six on or adjacent to the Ore Knob site and one off-site. None of the samples exceeded primary drinking water standards; however, several wells exceeded secondary standards for iron, manganese, pH, and sulfate.

7.2.3 Background Soil

Background soil samples collected from different parts of the 19th century and 1950s mill site areas exceeded ecological risk soil screening values for a variety of metals and a subset additionally exceeded the cancer-risk screening values arsenic in residential and industrial outdoor worker soil.

7.3 Constituents of Potential Concern

Constituents in surface water routinely exceeded applicable North Carolina criteria and included aluminum, cadmium, copper, iron, manganese, zinc, and pH. Constituents in sediment that routinely exceeded applicable screening values included cadmium, copper, iron, mercury, manganese, and zinc. Constituents in soil that routinely exceeded applicable screening values included aluminum, arsenic, chromium, cobalt, copper, iron, manganese, mercury, selenium, vanadium, and zinc. In addition, PAH and PCB compounds were identified in some site soils and in downstream floodplain soils and sediment.

7.4 Potential Contaminant Sources

Primary contaminant sources identified in the 19th century operations area include dumps of waste rock, slag, and other processed materials, soils in the area of the former smelter and other processing areas, and seeps discharging from adits. Sources identified in the 1950s mine and mill area include tailings, soils in and around numerous former mine facilities, and piles of crushed ore. Sources identified in the tailings impoundment area include tailings solids and

ground water seeps that emerge from the face of the tailings dam. Deep ground water within the mine workings, which is likely to represent another primary contaminant source, was not investigated.

Secondary contaminant sources include contaminated sediment in the substrates of Ore Knob Branch, Little Peak Creek, Peak Creek, and the South Fork New River. In addition, contaminated sediment is present in the retention basin below the tailings impoundment and in the basin of the former freshwater pond. Other secondary sources of contamination include floodplain sediments, particularly along Ore Knob Branch, which includes a significant proportion of tailings.

7.5 Contaminant Transport Pathways

The surface water pathway is the most significant means by which contamination on the former mine site spreads to off-site areas. Ore Knob Branch is affected by erosion from contaminated upland areas of the 19th century operations area and by the transport of contaminant particulates and leached constituents by overland flow or flow through ephemeral gullies. The stream is also contaminated by seepage from adits directly to the stream and by erosion and leaching of contaminants from the main tailings impoundment that was constructed in the creek channel. Similarly, Little Peak Creek is impacted by erosion and runoff from sparsely vegetated tailings, ore, and contaminated soil on the 1950s mine and mill site which are conveyed by overland flow or flow through ephemeral gullies. In addition, the stream is fed by a small spring issuing from a hillside in the former ore processing area. In contrast, Peak Creek derives most of its contaminants as it accepts flow from Ore Knob Branch and Little Peak Creek. A small portion of the 19th century operations area may contribute contaminated sediment to Peak Creek, but the effect is significantly smaller than that attributable to the two tributary streams. Peak Creek conveys this contamination to the South Fork New River. Contamination that is present on the floodplains of these streams may be re-suspended and transported during flood events.

The soil exposure pathway represents a less significant but important migration path. Many of the identified contaminant sources are sparsely vegetated to barren and are subject to erosion by wind and water. These materials are also available to ingestion by wildlife and can be directly accessed by trespassers. Human exposure to contaminated soil can occur through residential, recreational, or industrial activities. Numerous residences border the site and portions of the site are used for light industrial operations and for authorized and unauthorized recreation.

The ground water pathway was not investigated during this study. Abandoned mine workings are likely to be flooded with water that contains contaminants leached from the surrounding mineralized rock as evidenced by the treated adit seepage in the headwaters of Ore Knob Branch. The extent to which contaminated ground water migrates through the region is unknown. Several local residents depend on drinking water from wells in and around the site and some of these wells exceeded secondary drinking water standards for several constituents.

The air migration pathway was not investigated but the tailings impoundment represents a large volume of fine-grained material that can be winnowed by wind and transported off-site.

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TABLES

Table 2-1. Surface Water Quality Criteria used for Comparison with Sample Analytical Results

		North Carolina Division of Water Quality		EPA National Recommended Water Quality Criterion†
		Outstanding Resource Water Quality Criterion§	Trout Water Quality Criterion§	
Metals				
Aluminum	ug/L	87 (T)		
Antimony	ug/L			640 (D)
Arsenic	ug/L	50 (T)		
Barium	ug/L			
Beryllium	ug/L	6.5 (T)		
Cadmium	ug/L	2 (T)	0.4 (T)	
Calcium	ug/L			
Chromium	ug/L	50 (T)		
Cobalt	ug/L			
Copper	ug/L	7 (T, AL)		
Iron	ug/L	1,000 (T, AL)		
Lead	ug/L	25 (T)		
Magnesium	ug/L			
Manganese	ug/L			100 (D)
Mercury	ug/L	0.012 (T)		
Molybdenum	ug/L			
Nickel	ug/L	88 (T)		
Potassium	ug/L			
Selenium	ug/L	5 (T)		
Silver	ug/L	0.06 (T, AL)		
Sodium	ug/L			
Thallium	ug/L			0.47 (D)
Vanadium	ug/L			
Zinc	ug/L	50 (T, AL)		
Other Parameters				
pH	s.u.	6.0-9.0		
Dissolved Oxygen	mg/L	≥5.0	≥6.0	
Chloride	mg/L	230		
Total Suspended Solids	mg/L	20	10	

§ Criteria from the North Carolina Division of Water Quality (2007)
† EPA National Recommended Water Quality Criteria (2006) were used for metals that did not have criterion from the North Carolina Division of Water Quality.
T - criterion for total metals; D - criterion for dissolved metals; AL - action level established by North Carolina Division of Water Quality.

Table 3-1. Summary of ESI Samples by Field Investigation and Environmental Medium

Investigation	Medium	Locations	Primary Samples	Field Dupes	Total Samples
19th Century Operations	SW	3	3	0	**3**
	SD	2	2	0	**2**
	SL	15	15	2	**17**
	WA	6	6	0	**6**
1950s Mine and Mill Site	SL	22	22	1	**23**
	WA	5	5	0	**5**
Tailings Impoundment	SW	9	9	0	**9**
	SD	1	1	0	**1**
	SL	2	2	0	**2**
	WA	8	8	1	**9**
Downstream Receiving Waters	SW	15	25	3	**28**
	SD	15	22	2	**24**
	SL	7	7	1	**8**
Residential Wells	DW	7	7	1	**8**
		Total	*134*	*11*	***145***

SW - surface water; SD - sediment; SL - soil; WA - waste; DW - drinking water (residential wells).

Table 3-2. Surface Water and Sediment Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SW	SD			
19th Century Operations Area					
OK001	OK001-SW-001		974508	1315237	Below 19th century ops area between 1990s ALDs and tailings. Samples collected from small tributary flowing into the southwest corner of tailings impoundment, ~500 feet upstream of tailings impoundment.
		OK001-SD-001			
OK003	OK003-SW-001		974116	1315083	Seep upstream of the southwest corner of the tailings impoundment pond. Seep emanates from nearby adits, substrate is limestone lined, and water surface has a white milky film.
OK004	OK004-SW-001		974050	1315056	Seep upstream of the southwest corner of the tailings impoundment. Seep emanates from nearby adits, substrate is armored with precipitate (not lined with limestone).
		OK004-SD-001			
Tailings Impoundment					
OK002	OK002-SW-001		974827	1315791	Southwest corner of the tailings impoundment. Samples collected from small creek entering the southwest corner lobe of the tailings impoundment, ~180 feet into the tailings.
		OK002-SD-001			
OK005	OK005-SW-001		975234	1316552	Pond on southeast corner of the tailings impoundment. Sample collected ~5 feet from southeastern pond edge within a marshy area.
OK006	OK006-SW-001		975326	1316018	Pond on the southwestern corner of the tailings impoundment. Sample collected in the northwest portion of the pond ~40 feet from north shore (referenced to the pond extent at the time of sampling).
OK007	OK007-SW-001		975615	1315726	Isolated pond on the west side of the tailings impoundment. Sample collected ~20 feet from the northern edge.
OK008	OK008-SW-001		976228	1316533	Pond on the northeast corner of the tailings impoundment. Sample collected ~35 feet from the western edge.
OK009	OK009-SW-001		976241	1315873	Seep emanating from the base of the tailings dam upper slope. Sample collected from the confluence of 3 small seeps that cover ~40 feet along strike of the base of the higher dam face, ~20 feet north of the toe of slope, ~60 feet from the western edge of the dam slope.
OK010	OK010-SW-001		976258	1315968	Seep emanating from the base of the tailings dam upper slope. Sample collected near the center of the dam face along strike, ~2 feet from boiling source.

Table 3-2. Surface Water and Sediment Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SW	SD			
OK011	OK011-SW-001		976360	1315926	Strong upwelling seep at the base of the tailings dam lower slope. Sample collected from within upwelling circular depression ~6 feet from where a collection of seep/overland flow meets the toe of slope.
OK012	OK012-SW-001		976281	1316041	Seep emanating from the base of the tailings dam upper slope. Sample collected ~20 feet from eastern edge of the dam slope, 1.5 feet from source.
Downstream Receiving Waters					
OK013	OK013-SW-001		976773	1315814	Ore Knob Branch. Sample collected ~220 feet downstream of culvert pipe (where water from the tailings dam sediment pond is focused into a channelized creek). Creek is 10 feet wide at sampling point, substrate is armored with precipitate. Flow transect.
		OK013-SD-001			
OK014	OK014-SW-001		979831	1316510	Ore Knob Branch. Samples collected ~90 upstream from the confluence with Peak Creek. Flow transect.
		OK014-SD-001			
OK015	OK015-SW-001		980054	1316605	Peak Creek. Samples collected ~200 feet upstream of confluence with Ore Knob Branch. Flow transect.
		OK015-SD-001			
OK016	OK016-SW-001		979896	1316408	Peak Creek. Samples collected ~60 feet downstream of confluence with Ore Knob Branch, ~6 feet upstream of bridge. Samples -001 collected 6 feet from left bank, -002 16 feet from left bank, -003 6 feet from right bank. Flow transect.
	OK016-SW-002				
	OK016-SW-003				
		OK016-SD-001			
		OK016-SD-002			
		OK016-SD-003			
OK017	OK017-SW-001		982689	1310866	Peak Creek. Samples collected ~440 feet upstream of confluence with Little Peak Creek. Flow transect.
		OK017-SD-001			
OK018	OK018-SW-001		983459	1310424	Peak Creek. Samples collected ~490 feet downstream of confluence with Little Peak Creek. Sample SW-001 collected 5' from right bank, -002 in center of creek, -003 5' from right bank. Sample SD-001 collected 3-4' from right bank, SD-002 in center of creek, SD-003 3-4' from left bank. Flow transect.
	OK018-SW-002				
	OK018-SW-003				
		OK018-SD-001			
		OK018-SD-002			
		OK018-SD-003			

Table 3-2. Surface Water and Sediment Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SW	SD			
OK019	OK019-SW-001		985293	1309846	South Fork New River. Samples collected ~600 feet downstream of confluence with Peak Creek. Sample SW-001 collected 104' from right bank, SW-002 74' from right bank, SW-003 60' from right bank, SW-004 44' from right bank, SW-005 24' from right bank. Sample SD-001 collected 30' from left bank, SD-002 in center of river, SD-003 20' from right bank. Flow transect.
	OK019-SW-002				
	OK019-SW-003				
	OK019-SW-004				
	OK019-SW-005				
		OK019-SD-001			
		OK019-SD-002			
		OK019-SD-003			
OK020	OK020-SW-001		984447	1309223	South Fork New River. Samples collected ~500 feet upstream of confluence with Peak Creek. Samples collected in center of river.
		OK020-SD-001			
OK021	OK021-SW-001		982921	1310398	Little Peak Creek. Samples collected ~340 feet upstream of confluence with Peak Creek. Samples collected in center of creek. Flow transect.
		OK021-SD-001			
OK022	OK022-SW-001		976724	1311559	Low Gap Branch to Little Peak Creek (confluence near the intersection of Low Gap Church Road and Little Peak Creek Road). Samples collected ~440 feet upstream of confluence with Little Peak Creek, ~10 feet upstream of road culvert, south side of Low Gap Church Road.
		OK022-SD-001			
OK023	OK023-SW-001		976547	1312107	Little Peak Creek. Samples collected ~660 feet upstream of confluence with Low Gap Branch, ~110 feet downstream of road culvert, west side of Little Peak Creek Road, north side of Low Gap Church Road.
		OK023-SD-001			
OK024	OK024-SW-001		973584	1312963	Little Peak Creek. Samples collected from the center of the creek in the center of the breached dam below the former freshwater pond (north of the former mill site). Flow transect.
		OK024-SD-001			
OK025	OK025-SW-001		972810	1313111	Little Peak Creek. Samples collected ~430 feet "upstream" of former freshwater pond, ~80 feet down slope from the mill site. Sample SW-001 collected from the base of the sawmill stump pile, SD-001 30' east of the base of the stump pile.
		OK025-SD-001			

Table 3-2. Surface Water and Sediment Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SW	SD			
OK026	OK026-SW-001		986238	1309855	South Fork New River. Samples collected ~1520 feet downstream of confluence with Peak Creek. Sample SW-001 collected along left bank, SW-002 in center of river, SW-003 9' from right bank. Sample SD-001 collected in river center, SD-002 9' from right bank.
	OK026-SW-002				
	OK026-SW-003				
		OK026-SD-001			
		OK026-SD-002			
OK027	OK027-SW-001		986593	1309728	South Fork New River. Samples collected ~1900 feet downstream of confluence with Peak Creek. Samples collected in center of river.
		OK027-SD-001			

SW - surface water; SD - sediment.
Northing and Easting coordinates are reported in NAD83 State Plane North Carolina FIPS 3200 (feet).

Table 3-3. Floodplain Soil Sample IDs and Location Descriptions

Station ID	Sample ID SL	Northing	Easting	Location
Ore Knob Branch				
OK200	OK200-SL-001	979834	1316533	Ore Knob Branch floodplain soil. Sample collected ~90 feet upstream of confluence with Peak Creek, right bank, 10' back from waters edge.
OK201	OK201-SL-001	979837	1316497	Ore Knob Branch floodplain soil. Sample collected ~90 feet upstream of confluence with Peak Creek, left bank, 6' back from waters edge.
OK207	OK207-SL-001	976812	1315804	Ore Knob Branch floodplain soil. Sample collected ~260 feet downstream of culvert pipe (where water from the tailings dam sediment pond is focused into a channelized creek), right bank, ~25' back from waters edge.
Little Peak Creek				
OK202	OK202-SL-001	983046	1310640	Little Peak Creek floodplain soil. Sample collected ~70 feet upstream of confluence with Peak Creek, right bank.
OK203	OK203-SL-001	983059	1310631	Little Peak Creek floodplain soil. Sample collected ~70 feet upstream of confluence with Peak Creek, left bank.
OK426	OK426-SL-001	973643	1312986	Little Peak Creek floodplain soil in the former mill site area. Sample collected ~50 feet downstream from breached dam at the northern end of the former freshwater pond (in the Little Peak Creek headwaters).
Peak Creek				
OK204	OK204-SL-001	984699	1309554	Peak Creek floodplain soil. Sample collected ~40 feet upstream of confluence with South Fork New River, left bank, 10' back from waters edge.
OK205	OK205-SL-001	984739	1309663	Peak Creek floodplain soil. Sample collected 20' into a field across the road to the southeast of the confluence with South Fork New River.

SL - soil.
Northing and Easting coordinates are reported in NAD83 State Plane North Carolina FIPS 3200 (feet).

Table 3-4. Summary of Stream Discharge Calculations

Station	Date	Time (24-hr)	Stream Width (ft)	Cross-Sectional Area (ft^2)	Discharge (cfs)	Location and Comments
OK013	7/19/2007	18:03	3	0.91	0.284	Ore Knob Branch, below tailings impoundments
OK014	7/18/2007	17:50	3.5	1.01	0.389	Ore Knob Branch, upstream of Peak Creek confluence
OK015	7/18/2007	16:45	28.5	17.87	8.084	Peak Creek, upstream of Ore Knob Branch confluence
OK016	7/18/2007	15:04	32.5	25.92	7.788	Peak Creek, downstream of Ore Knob Branch confluence
OK017	7/18/2007	13:36	32	30.75	10.349	Peak Creek, upstream of Little Peak Creek confluence
OK018	7/18/2007	9:08	28.5	26.17	12.052	Peak Creek, downstream of Little Peak Creek confluence
OK019	7/17/2007	11:07	128	212.26	170.633	South Fork New River, downstream of Peak Creek confluence
OK019	7/17/2007	11:54	128	216.58	168.732	South Fork New River, downstream of Peak Creek confluence. Repeat measurement.
OK019	7/19/2007	11:30	129	238.01	233.613	South Fork New River, downstream of Peak Creek confluence. Measured two days after rain event - see USGS discharge data
OK021	7/18/2007	12:48	10	7.31	2.272	Little Peak Creek, upstream of Peak Creek confluence
OK024	7/19/2007	14:55	0.5	0.06	0.082	Little Peak Creek, breached dam below freshwater pond. Single point measurement of small rectangular channel; approximate measurement at best, likely biased low.
OK024	7/19/2007	15:30	----	----	0.1122	Little Peak Creek, breached dam below freshwater pond. 60° V-notch weir, improvised installation. Possible inadequate relief behind weir, likely biased high.

All measurements except weir installation at OK024 were conducted using acoustic doppler velocimeter (ADV®).

Note that discharge in Peak Creek upstream of Ore Knob Branch (OK015) exceeds discharge downstream of confluence (OK016). Attributed to reasonable measurement error for both stations.

Table 3-5. Soil and Waste Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SL	WA			
19th Century Operations Area					
OK500	OK500-SL-001		973976	1313608	19th Century Operations area. Sample collected ~600 feet southwest of the former roaster area, in mature trees north of residential property (154 Golden Fox) and south of Christmas tree farm. Background sample.
OK501	OK501-SL-001		973056	1314161	19th Century Operations area. Sample collected ~170 feet south-southwest of former shaft 2-S, southwest of the mining area. Background sample.
OK502	OK502-SL-001		973705	1315447	19th Century Operations area. Sample collected ~220 feet east of former shaft 4-N, northeast of the mining area. Background sample.
OK511	OK511-SL-001		973203	1314696	19th Century Operations area. Sample collected ~200 feet south of former engine shaft, ~120 feet south of lower bench road (~40 feet below road), in the southern portion of the mining area.
OK512	OK512-SL-001		973177	1314853	19th Century Operations area. Sample collected ~300 feet southeast of former engine shaft, ~180 feet south of lower bench road (~40 feet below road), in the southern portion of the mining area.
OK513	OK513-SL-001		973676	1314781	19th Century Operations area. Sample collected in waste rock dump ~300 feet north-northeast of former engine shaft, ~30 feet below top of hill, midway down rock dump face, in the northern portion of the mining area.
OK514	OK514-SL-001		973643	1314627	19th Century Operations area. Sample collected in waste rock dump ~240 feet north of former engine shaft, top of berm about 15 feet downslope, in the northern portion of the mining area.
OK515	OK515-SL-001		974027	1313987	19th Century Operations area. Sample collected in a ditch draining west from the southwest side of the former roaster area, ~230 feet southwest of the former roaster area.
OK517	OK517-SL-001		974484	1314948	19th Century Operations area. Sample collected in a very steep, east-trending gully below slag pile, ~280 feet northeast of the former roaster area.
OK518	OK518-SL-001		974634	1315316	19th Century Operations area. Sample collected in a deep, narrow, east-trending gully ~80 feet north of the ALD creek, ~400 feet northeast of station OK517 and ~150 feet north-northeast of station OK001.

Table 3-5. Soil and Waste Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SL	WA			
OK519	OK519-SL-001		974309	1315257	19th Century Operations area. Sample collected ~240 feet northeast of the mapped adits (and station OK003).
OK520	OK520-SL-001		973679	1314449	19th Century Operations area. Sample collected in the northwest portion of the mining area, ~340 feet northwest of the former engine shaft, ~80 southeast of the road to the tailings impoundment.
OK550		OK550-WA-001	973249	1314190	19th Century Operations area. Sample collected west of the mining area, ~60 northwest of former shaft 2-S, ~80 feet west of the road to the tailings impoundment.
OK551	OK551-SL-001		974076	1314210	19th Century Operations area. Sample collected on the southwest margin of the former roaster area, downslope where erosion would carry material from the area.
OK552		OK552-WA-001	974161	1314456	19th Century Operations area. Sample collected in the south-center of the former roaster area on the south side of a graded hillslope with roaster piles, ~130 feet west of the road to the tailings impoundment.
OK553	OK553-SL-001		973971	1314709	19th Century Operations area. Sample collected southeast of the former roaster area, near the center of the assumed foundation of former smelter, ~110 feet east of the road to the tailings impoundment.
OK554	OK554-SL-001		974401	1314410	19th Century Operations area. Sample collected on the northern margin of the former roaster area, 10 feet downslope from graded soil in the base of a small gully, uphill from grassed, graded land.
OK555		OK555-WA-001	973794	1314522	19th Century Operations area. Sample collected north of the mining area, south of former mill and slag dump, ~70 southeast of road to tailings impoundment, on hillslope 30 feet above the road.
OK556		OK556-WA-001	974053	1315135	19th Century Operations area. Sample collected northeast of the mining area, on a waste rock dump/mound of material ~180 feet high, ~80 feet southeast of the mapped adits.
OK557		OK557-WA-001	974040	1314702	19th Century Operations area. Sample collected on a slag dump on the north side of former smelter, ~110 feet east of road to tailings impoundment, ~70 feet north of station OK553 (former smelter).

Table 3-5. Soil and Waste Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SL	WA			
OK558		OK558-WA-001	974217	1314791	19th Century Operations area. Sample collected on a slag dump east of the former roaster area, ~190 feet east of road to the tailings impoundment, ~260 feet north-northeast of station OK553 (former smelter).
Former Mill Site					
OK400	OK400-SL-001		972675	1312409	Former Mill Site area. Sample collected ~70 feet north of road that leads to the transformer building, ~200 feet west of the ball mill foundation. Background sample.
OK401	OK401-SL-001		972354	1312707	Former Mill Site area. Sample collected ~70 feet southwest of the transformer building. Background sample.
OK402	OK402-SL-001		972262	1312904	Former Mill Site area. Sample collected ~50 feet southwest of the road leading to the transformer building, ~150 feet south of the hoist and compressor building foundation. If heading northwest along this road, the location is beyond the powerline easement, uphill in the woods. Background sample.
OK406	OK406-SL-001		973062	1313022	Former Mill Site area. Sample collected in a residential backyard (801 Little Peak Creek Rd, same property as well station OK706), ~160 feet west and downhill from the house, 2 feet north of rutted road. Location is ~120 feet southeast of the southern end of the former freshwater pond.
OK407	OK407-SL-001		972557	1313357	Former Mill Site area. Sample collected in a residential yard ~50 feet south of the southern end of the mobile home, ~150 feet east of the mill site.
OK408	OK408-SL-001		972063	1313207	Former Mill Site area. Sample collected in a residential yard ~6 feet northwest of the north end of the mobile home, ~40 feet southwest of access road to the mill site.
OK411	OK411-SL-001		972416	1312783	Former Mill Site area. Sample collected ~15 feet southeast of the transformer building, ~10 feet southwest of the road.
OK412	OK412-SL-001		972452	1312766	Former Mill Site area. Sample collected adjacent to the northeast corner of the transformer building.
OK413	OK413-SL-001		972639	1312658	Former Mill Site. Sample collected beside a foundation pier of the ball mill structure, ~40 feet north of the former fine ore bins (eastern one).

Table 3-5. Soil and Waste Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SL	WA			
OK414	OK414-SL-001		972764	1312648	Former Mill Site. Sample collected in the northwest corner of the former flotation plant foundation, ~12 feet off the southwest corner of the former truck loading bins where material has collapsed/been pushed into a sump.
OK415	OK415-SL-001		972560	1312789	Former Mill Site. Sample collected under the conveyor system foundation, ~12 feet west of the crusher house foundation.
OK416	OK416-SL-001		972570	1312980	Former Mill Site. Sample collected in the middle of the electric shop foundation slab, ~30 feet northeast of its western edge, 2.5 feet northwest of remaining iron rail (part of foundation).
OK417	OK417-SL-001		972777	1312701	Former Mill Site. Sample collected in a low-lying drainage point beside the northeastern corner of the former truck loading bins.
OK418	OK418-SL-001		972649	1312629	Former Mill Site. Sample collected beside a foundation pier of the ball mill structure, ~30 feet west-northwest of station OK413.
OK419	OK419-SL-001		972626	1312953	Former Mill Site. Sample collected in the middle of the south side of the electric shop foundation, ~2 feet off concrete foundation, ~60 feet north-northwest of station OK416.
OK421	OK421-SL-001		972895	1312868	Former Mill Site area. Sample collected ~200 feet northeast of the former truck loading bins, along a well-defined drainage downslope from the mill site.
OK422	OK422-SL-001		973161	1312816	Former Mill Site area. Sample collected ~120 feet east of the tailings area north of the mill site, ~130 feet west of the southern end of the former freshwater pond, located in a well-defined drainage path trending northeast from the southern 1/3 of the tailings area.
OK423	OK423-SL-001		973315	1312802	Former Mill Site area. Sample collected downhill and east from the northern end of the tailings area (north of the mill site), along a defined drainage to the former freshwater pond (~100 feet west of the pond).
OK424	OK424-SL-001		972980	1312947	Former Mill Site area. Sample collected from a small wetland ~180 feet south of the southern end of the former freshwater pond.
OK425	OK425-SL-001		973348	1312947	Former Mill Site area. Sample collected within the former freshwater pond, near the center (north-south), ~50 feet east of the western margin, ~150 feet northeast of station OK423.

Table 3-5. Soil and Waste Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SL	WA			
OK427	OK427-SD-001		972567	1312793	Former Mill Site area. Sample collected within the bermed/walled foundation of the conveyor system, ~10 feet west of the crusher house foundation, <10 feet north of station OK415.
OK450		OK450-WA-001	972613	1312632	Former Mill Site area. Sample collected under the foundation for the former fine ore bins.
OK451		OK451-WA-001	972534	1312848	Former Mill Site area. Sample collected directly under spill pile (ore) on the southwest side of the former coarse ore/waste bins.
OK452		OK452-WA-001	973066	1312547	Former Mill Site area. Sample collected in the southwestern portion of the tailings area north of the mill site, ~310 feet north of the former truck loading bins.
OK453		OK453-WA-001	973098	1312694	Former Mill Site area. Sample collected in the southeastern portion of the tailings area north of the mill site, ~320 feet north of the former truck loading bins.
OK454		OK454-WA-001	973269	1312596	Former Mill Site area. Sample collected in the northern portion of the tailings area north of the mill site, ~490 feet north of the former truck loading bins, ~180 feet north of stations OK452 and OK453.
Tailings Impoundment					
OK300	OK300-SL-001		974962	1316178	Tailings Impoundment area. Sample collected on hillslope southeast of the southwest lobe of the tailings impoundment, ~130 feet up slope from the tailings.
OK301	OK301-SL-001		976025	1315397	Tailings Impoundment area. Sample collected ~280 feet west of the tailings dam, ~140 feet north of the road (in the trees).
OK351		OK351-WA-001	974801	1315749	Tailings Impoundment. Sample collected from southwest lobe of tailings impoundment, center of clearing, ~50 feet west of gully at inlet to impoundment (~50 feet southwest of OK002).
OK352		OK352-WA-001	974988	1315801	Tailings Impoundment. Sample collected from southwest lobe of tailings impoundment, ~180 feet downstream of OK002. Sample collected ~2.5 feet below top of gully, 0.5 feet above water.
OK353		OK353-WA-001	975398	1316126	Tailings Impoundment. Sample collected near the southern end of the tailings impoundment, 60 feet south of flush-mount well (MW-10), ~80 feet north of southwestern tailings pond (referenced to pond extent at the time of sampling).

Table 3-5. Soil and Waste Sample IDs and Location Descriptions

Station ID	Sample ID		Northing	Easting	Location
	SL	WA			
OK354		OK354-WA-001	975657	1316080	Tailings Impoundment. Sample collected from center of impoundment, ~2/3 of the way from the southwest distal end (where tributary enters) to the crest of the dam (~500 feet south of the dam crest), 10 feet south of flush-mount well (MW-11).
OK355		OK355-WA-001	975913	1316028	Tailings Impoundment. Sample collected from ~230 feet south of the crest of the tailings dam (~1/3 of the way from the dam crest to the southwest distal end of the impoundment), ~50 feet northwest of flush-mount well (MW-12).
OK356		OK356-WA-001	976143	1315959	Tailings Impoundment. Sample collected near the centerline of the tailings dam, ~2 feet below the dam crest.
OK357		OK357-WA-001	976169	1315929	Tailings Impoundment. Sample collected near the centerline of the tailings dam about halfway up the dam face, ~1 meter below the transition from yellowish tan to reddish brown.
OK358		OK358-WA-001	976199	1315919	Tailings Impoundment. Sample collected near the centerline of the tailings dam about 5 feet above tailings starter dam contact (near the base of the upper slope).

SL - soil; WA - waste; SD - sediment.
Northing and Easting coordinates are reported in NAD83 State Plane North Carolina FIPS 3200 (feet).

Table 3-6. Residential Well Sample IDs and Location Descriptions

Station ID	Sample IDs	Northing	Easting	Location
	DW			
OK701	OK701-DW-001	968997	1306195	Residential Well. Sample collected from an outside spigot at the Roan Creek church property, located along highway 88 ~1 mile west of the intersection of the highway with Ore Knob Road.
OK702	OK702-DW-001	973453	1313695	Residential Well. Sample collected from an outside spigot on the property of Jimmy Tripp, 157 Hunters Lane, Jefferson, NC 28640, located due west of the former freshwater pond, ~520 feet east of Little Peak Creek Road.
OK703	OK703-DW-001	972849	1315076	Residential Well. Sample collected from the spring pumphouse on the property of Ronnie Bare, located ~370 feet south-southeast of the 19th Century mining area, ~590 feet east of the road that runs through the mining area.
OK704	OK704-DW-001	972770	1313711	Residential Well. Sample collected from the well pumphouse spigot on the property of Gene Lewis, 135 Ore Knob Mine Road, located ~190 feet south of former shaft 3-S between the 19th Century operations area and the former mill site.
OK705	OK705-DW-001	972734	1313957	Residential Well. Sample collected from an outside spigot on the property of Kenneth Bare, 201 Ore Knob Mine Road, located ~340 feet southeast of former shaft 3-S between the 19th Century operations area and the former mill site.
OK706	OK706-DW-001	973046	1313177	Residential Well. Sample collected at the well on the property of James Drake, 801 Little Peak Creek Road, located ~240 feet southeast of the former freshwater pond, north of the former mill site. Depth of ~186 feet.
OK707	OK707-DW-001	973656	1313580	Residential Well. Sample collected at the well on the property of Mark Mallette, 154 Golden Fox, located ~540 feet northeast of the former freshwater pond, between the pond and the former roaster area. Depth of 300 feet.

DW - drinking water.
Northing and Easting coordinates are reported in NAD83 State Plane North Carolina FIPS 3200 (feet).

Table 5-1. Comparison of Background Soil Samples to Soil Screening Values

		Soil Screening Values			Background Soil Samples				
		Region 6 Human Health PRG[1]		Region 4 RAGS[2]					
		Residential Soil	Industrial Outdoor Worker Soil	Ecological Risk	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value
Inorganic Constituents									
Aluminum	mg/kg	77,000	100,000	50	6	0	0	6	1,600 J
Antimony	mg/kg	31	450	3.5	2	0	0	-- [4]	6.9 U
Arsenic (non-cancer)	mg/kg	22	280	10	3	0	0	0	150 J
Arsenic (cancer)	mg/kg	0.39	1.8	--	3	3	3	--	150 J
Barium	mg/kg	16,000	100,000	165	6	0	0	0	110 J
Beryllium	mg/kg	160	2,200	1.1	6	0	0	1	1.2
Cadmium	mg/kg	39	560	1.6	6	0	0	0	0.64 U
Chromium (total)	mg/kg	210	500	0.4	6	0	0	6	17 J
Cobalt	mg/kg	900	2,100	20	6	0	0	0	10
Copper	mg/kg	2,900	42,000	40	6	0	0	2	79 J
Iron	mg/kg	55,000	100,000	200	6	1	0	6	90,000 J
Lead	mg/kg	400	800	50	6	0	0	0	13 J
Manganese	mg/kg	3,500	35,000	100	6	0	0	4	580 J
Mercury	mg/kg	23	340	0.1	6	0	0	3 [4]	0.13 U
Molybdenum	mg/kg	390	5,700	2	0	--	--	--	--
Nickel	mg/kg	1,600	23,000	30	6	0	0	0	6.2 J
Selenium	mg/kg	390	5,700	0.81	5	0	0	1 [4]	23 J
Silver	mg/kg	390	5,700	2	6	0	0	0	1.3 U
Thallium	mg/kg	5.5	79	1	6	0	0	-- [4]	3.2 U
Vanadium	mg/kg	390	5,700	2	6	0	0	6	28 J
Zinc	mg/kg	2,300	100,000	50	6	0	0	2	120 J
Cyanide (total)	mg/kg	--	--	5	0	--	--	--	--
Organic Constituents									
2-Methylnaphthalene	mg/kg	--	--	--	6	--	--	--	0.22 U
Acenaphthene	mg/kg	3,700	33,000	20	6	0	0	0	0.22 U
Acenaphthylene	mg/kg	--	--	--	6	--	--	--	0.22 U
Anthracene	mg/kg	22,000	100,000	0.1	6	0	0	-- [6]	0.22 U
Benzaldehyde	mg/kg	6,100	68,000	--	6	0	0	--	0.22 U
Benzo(a)anthracene	mg/kg	0.15	2.3	--	6	-- [5]	0	--	0.22 U
Benzo(b)fluoranthene	mg/kg	0.15	2.3	--	6	-- [5]	0	--	0.22 U
Benzo(g,h,i)perylene	mg/kg	--	--	--	6	--	--	--	0.22 U
Benzo(k)fluoranthene	mg/kg	1.5	23	--	6	0	0	--	0.22 U
Benzo(a)pyrene	mg/kg	0.015	0.23	0.1	6	-- [5]	0	-- [6]	0.22 U
bis(2-Ethylhexyl) Phthalate	mg/kg	35	140	--	6	0	0	--	0.22 U
Carbazole	mg/kg	24	96	--	6	0	0	--	0.22 U
Chrysene	mg/kg	15	230	--	6	0	0	--	0.22 U
Dibenzo(a,h)anthracene	mg/kg	0.015	0.23	--	6	-- [5]	0	--	0.22 U
Fluoranthene	mg/kg	2,300	24,000	0.1	6	0	0	-- [6]	0.22 U
Fluorene	mg/kg	2,600	26,000	--	6	0	0	--	0.22 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.15	2.3	--	6	-- [5]	0	--	0.22 U
Naphthalene	mg/kg	120	210	0.1	6	0	0	-- [6]	0.22 U
Phenanthrene	mg/kg	--	--	0.1	6	--	--	-- [6]	0.22 U
Pyrene	mg/kg	2,300	32,000	0.1	6	0	0	-- [6]	--
Low Molecular Weight PAH [7] - soil invertebrate	mg/kg	--	--	29	6	--	--	--	--
Low Molecular Weight PAH [7]-mammal	mg/kg	--	--	100	6	--	--	--	--
High Molecular Weight PAH [7]-soil invertebrate	mg/kg	--	--	18	6	--	--	--	--
High Molecular Weight PAH [7]-mammal	mg/kg	--	--	1.1	6	--	--	--	--
Aroclor 1016	mg/kg	3.9	24	--	3	0	0	--	0.043 U
Aroclor 1221	mg/kg	0.22	0.83	--	3	0	0	--	0.043 U
Aroclor 1232	mg/kg	0.22	0.83	--	3	0	0	--	0.043 U
Aroclor 1242	mg/kg	0.22	0.83	--	3	0	0	--	0.043 U
Aroclor 1248	mg/kg	0.22	0.83	--	3	0	0	--	0.043 U
Aroclor 1254	mg/kg	0.22	0.83	--	3	0	0	--	0.043 U
Aroclor 1260	mg/kg	0.22	0.83	--	3	0	0	--	0.043 U
Total PCB [8]	mg/kg	--	--	0.2	3	--	--	--	--

[1] EPA Region 6 Human Health Medium-Specific Screening Levels, 2008

[2] EPA Region 4, Supplement to RAGS, 2001

[3] Number of samples analyzed does not include field duplicates and rejected values

[4] Antimony: not detected in 2 of 2 samples at DL exceeding criterion; Mercury: not detected in 2 of 6 samples at DL exceeding criterion; Selenium: not detected in 2 of 5 samples at DL exceeding criterion; Thallium: not detected in any samples at DL exceeding criterion

[5] Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene: not detected in any samples at DL exceeding criterion

[6] Anthracene, Benzo(a)pyrene, Fluoranthene, Naphthalene, Phenanthrene, Pyrene: not detected in any samples at DL exceeding criterion

[7] Low Molecular Weight PAH = sum of Acenaphthene, Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Naphthalene, and Phenanthrene. High Molecular Weight PAH = sum of Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene

[8] Total PCBs = sum of aroclors omitting non-detected values

Table 5-2. Metal Concentrations in Background Soil Samples, Ore Knob Former Mine Site, North Carolina

		Mean	Median	Min	Max	n
Aluminum	mg/kg	12,950	14,000	1,700J	19,000	6
Antimony	mg/kg	<7.5	<7.45	7.4UJ	7.5UJ	2
Arsenic	mg/kg	2.5	2.2	1.8J	3.5J	3
Barium	mg/kg	67	66.5	33J	110J	6
Beryllium	mg/kg	<0.69	<0.63	0.41UJ	1.2	6
Cadmium	mg/kg	<0.62	<0.62	0.59UJ	0.64UJ	6
Calcium	mg/kg	<212	<165	79UJ	470J	6
Chromium	mg/kg	14.4	15.5	9.6J	17J	6
Cobalt	mg/kg	<6.4	6.45	3.3UJ	10	6
Copper	mg/kg	38.5	35	16J	79J	6
Iron	mg/kg	28,833	16,500	13,000J	90,000J	6
Lead	mg/kg	10.3	10.5	7.9J	13J	6
Magnesium	mg/kg	1,378	1,450	320J	2,600J	6
Manganese	mg/kg	284	270	80J	580J	6
Mercury	mg/kg	<0.08	<0.085	0.046UJ	0.13U	6
Nickel	mg/kg	<5.4	5.8	3.3UJ	7J	6
Potassium	mg/kg	1,452	1,200	290J	4,000J	6
Selenium	mg/kg	<6.5	<4.3	0.26	23J	5
Silver	mg/kg	<1.1	<1.2	J	1.3U	6
Sodium	mg/kg	<383	<490	20UJ	640U	6
Thallium	mg/kg	<3.1	<3.1	3UJ	3.2U	6
Vanadium	mg/kg	24	24	20J	28J	6
Zinc	mg/kg	48	32.5	26J	120J	6

Table 5-3. Comparison of Mine Waste and Soil Samples in the Vicinity of the 19th Century Mining and Processing Areas to Soil Screening Values

		Soil Screening Values			Waste Rock and Slag at 19th Century Mill and Mine					Other Processed Materials Near 19th Century Smelter					Soils at 19th Century Mill and Mine				
		Region 6 Human Health PRG[1]		Region 4 RAGS[2]															
		Residential Soil	Industrial Outdoor Worker Soil	Ecological Risk	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value
Inorganic Constituents																			
Aluminum	mg/kg	77,000	100,000	50	6	1	0	6	82,000	4	0	0	4	39,000	7	0	0	7	35,000
Antimony	mg/kg	31	450	3.5	3	0	0	1 [6]	7.4 J	2	0	0	0 [11]	7 U	7	0	0	0 [15]	7.1 U
Arsenic (non-cancer)	mg/kg	22	280	10	4	0	0	0	3.7 U	4	0	0	0	1.3 U	7	0	0	1	10 J
Arsenic (cancer)	mg/kg	0.39	1.8		4	-- [10]	0 [10]		3.7 U	4		0		1.3 U	7	6 [14]	3		10 J
Barium	mg/kg	16,000	100,000	165	7	0	0	5	375	4	0	0	1	190	7	0	0	0	140 J
Beryllium	mg/kg	160	2,200	1.1	7	0	0	2 [6]	2 U	3	0	0	0	0.6 U	7	0	0	0	0.85
Cadmium	mg/kg	39	560	1.6	7	0	0	3	3.3	4	0	0	1	4.2	7	0	0	0	0.59 U
Chromium (total)	mg/kg	210	500	0.4	7	0	0	7	77	4	0	0	4	46	7	0	0	7	42
Cobalt	mg/kg	900	2,100	20	7	0	0	4	390	4	0	0	1	85	7	0	0	1	20
Copper	mg/kg	2,900	42,000	40	7	2	0	7	14,000 J	4	1	0	4	15,000 J	7	0	0	7	680 J
Iron	mg/kg	55,000	100,000	200	6	5	4	6	350,000 J	4	4	2	4	270,000 J	7	1	1	7	110,000 J
Lead	mg/kg	400	800	50	7	0	0	0	27 J	4	0	0	1	250 J	7	0	0	0	37 J
Manganese	mg/kg	3,500	35,000	100	6	1	0	6	7,100	4	0	0	3	270	7	0	0	6	480
Mercury	mg/kg	23	340	0.1	7	0	0	5 [6]	0.5	4	0	0	2 [11]	0.44	7	0	0	2	0.76
Molybdenum	mg/kg	390	5,700	2	1	0	0	1	9.5	0	••	••	••	••	0	••	••	••	••
Nickel	mg/kg	1,600	23,000	30	7	0	0	1	30 J	4	0	0	0	19 J	7	0	0	0	19 J
Selenium	mg/kg	390	5,700	0.81	7	0	0	4 [6]	37 J	4	0	0	3 [11]	10 J	7	0	0	1 [15]	9.4 J
Silver	mg/kg	390	5,700	2	7	0	0	5 [6]	4.8	4	0	0	3	9.6	7	0	0	0	1.2 U
Thallium	mg/kg	5.5	79	1	5	-- [5]	0	-- [5]	9 U	3	0	0	1 [11]	4.1	7	0	0	-- [15]	3.1 U
Vanadium	mg/kg	390	5,700	2	7	0	0	7	130	4	0	0	4	75	7	0	0	7	52
Zinc	mg/kg	2,300	100,000	50	6	1	0	5	3,900 J	4	0	0	4	2,100 J	7	0	0	5	180 J
Cyanide (total)	mg/kg			5	0					0					0				
Organic Constituents																			
Acenaphthene	mg/kg	3,700	33,000	20	4	0	0	0	0.2 U	4	0	0	0	0.2 U	7	0	0	0	0.22 U
Acenaphthylene	mg/kg				4				0.2 U	4				0.2 U	7				0.22 U
Anthracene	mg/kg	22,000	100,000	0.1	4	0	0	-- [8]	0.2 U	4	0	0	0 [13]	0.2 U	7	0	0	-- [17]	0.22 U
Benzaldehyde	mg/kg	6,100	68,000		4	0	0		0.2 U	4	0	0		0.2 U	7	0	0		0.22 U
Benzo(a)anthracene	mg/kg	0.15	2.3		4	0 [7]	0		0.2 U	4	0 [12]	0		0.2 U	7	1 [16]	0		0.22 U
Benzo(b)fluoranthene	mg/kg	0.15	2.3		4	0 [7]	0		0.2 U	4	0 [12]	0		0.2 U	7	1 [16]	0		0.22 U
Benzo(g,h,i)perylene	mg/kg				4				0.2 U	4				0.2 U	7				0.22 U
Benzo(k)fluoranthene	mg/kg	1.5	23		4	0	0		0.2 U	4	0	0	••	0.2 U	7	0		••	0.22 U
Benzo(a)pyrene	mg/kg	0.015	0.23	0.1	4	2 [7]	0	0 [9]	0.2 U	4	1 [12]	0	1 [13]	0.2 U	7	2 [16]	0	1 [17]	0.22 U
Chrysene	mg/kg	15	230		4	0	0		0.2 U	4	0	0		0.2 U	7	0	0		0.22 U
Dibenzo(a,h)anthracene	mg/kg	0.015	0.23		4	-- [7]	0		0.2 U	4	-- [13]	0		0.2 U	7	1 [16]	0		0.22 U
Fluoranthene	mg/kg	2,300	24,000	0.1	4	0	0	0 [8]	0.2 U	4	0	0	1 [13]	0.25	7	0	0	2 [17]	0.22 U
Fluorene	mg/kg	2,600	26,000		4	0	0		0.2 U	4	0	0		0.2 U	7	0	0		0.22 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.15	2.3		4	0 [7]	0		0.2 U	4	0 [12]	0		0.2 U	7	-- [16]	0		0.22 U
Naphthalene	mg/kg	120	210	0.1	4	0	0	-- [8]	0.2 U	4	0	0	-- [13]	0.2 U	7	0	0	-- [17]	0.22 U
Phenanthrene	mg/kg			0.1	4			0 [8]	0.2 U	4			1 [13]	0.2 U	7			0 [17]	0.22 U
Pyrene	mg/kg	2,300	32,000	0.1	4	0	0	0 [8]	0.2 U	4	0	0	1 [13]	0.22	7	0	0	1 [17]	0.22 U
Low Molecular Weight PAH[9] - soil invertebrate	mg/kg			29	4			0	0.15	4			0	0.43	7			0	0.193
Low Molecular Weight PAH[9]-mammal	mg/kg			100	4			0	0.15	4			0	0.43	7			0	0.193
High Molecular Weight PAH[9]-soil invertebrate	mg/kg			18	4			0	0.39	4			0	0.99	7			0	1.29
High Molecular Weight PAH[9]-mammal	mg/kg			1.1	4			0	0.39	4			0	0.99	7			1	1.29
Aroclor 1016	mg/kg	3.9	24		1	0	0		0.039 U	2	0	0		0.040 U	3	0	0		0.042 U
Aroclor 1221	mg/kg	0.22	0.83		1	0	0		0.039 U	2	0	0		0.040 U	3	0	0		0.042 U
Aroclor 1232	mg/kg	0.22	0.83		1	0	0		0.039 U	2	0	0		0.040 U	3	0	0		0.042 U
Aroclor 1242	mg/kg	0.22	0.83		1	0	0		0.039 U	2	0	0		0.040 U	3	0	0		0.042 U
Aroclor 1248	mg/kg	0.22	0.83		1	0	0		0.039 U	2	0	0		0.040 U	3	0	0		0.042 U
Aroclor 1254	mg/kg	0.22	0.83		1	0	0		0.039 U	2	0	0		0.040 U	3	0	0		0.042 U
Aroclor 1260	mg/kg	0.22	0.83		1	0	0		0.039 U	2	0	0		0.040 U	3	0	0		0.042 U
Total PCB[18]	mg/kg			0.2	1			0	0.039 U	2			0	0.040 U	3			0	0.042 U

[1] EPA Region 6 Human Health Medium-Specific Screening Levels, 2008

[2] EPA Region 4, Supplement to RAGS, 2001

[3] Number of samples analyzed does not include field duplicates and rejected values

[5] Thallium not detected in any samples; DL exceeded ecological criterion in all samples and residential soil criterion in 1 sample

[6] Antimony: not detected in one sample at DL exceeding criterion; Beryllium: not detected in one sample at DL exceeding criterion; Mercury: not detected in one sample at DL exceeding criterion; Selenium: not detected in 3 samples at DL exceeding criterion; Silver: not detected in one sample at DL exceeding criterion

[7] Benzo(a)anthracene: not detected in 2 of 4 samples at DL exceeding criterion; Benzo(b)fluoranthene: not detected in 2 of 4 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in 2 of 4 samples at DL exceeding criterion; Dibenzo(a,h)anthracene: not detected in 4 of 4 samples at DL exceeding criterion; Indeno(1,2,3-cd)pyrene: not detected in 2 of 4 samples at DL exceeding criterion

[8] Anthracene: not detected in 4 of 4 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in 2 of 4 samples at DL exceeding criterion; Fluoranthene: not detected in 2 of 4 samples at DL exceeding criterion; Naphthalene: not detected in 4 of 4 samples at DL exceeding criterion; Phenanthrene: not detected in 3 of 4 samples at DL exceeding criterion; Pyrene: not detected in 2 of 4 samples at DL exceeding criterion

[9] Low Molecular Weight PAH = sum of Acenaphthene, Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Naphthalene, and Phenanthrene. High Molecular Weight PAH = sum of Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzo(a)pyrene, Chrysene, Indeno(1,2,3-cd)pyrene, and Pyrene. Both calculations omit non-detected analytes.

[10] Arsenic not detected in any samples at DL that exceeded criteria in 4 of 4 samples for residential soil and 1 of 4 samples for industrial soil

[11] Antimony: not detected in one sample at DL exceeding criterion; Mercury: not detected in two samples at DL exceeding criterion; Selenium: not detected in one sample at DL exceeding criterion; Thallium: not detected in one sample at DL exceeding criterion

[12] Benzo(a)anthracene: not detected in 3 of 4 samples at DL exceeding criterion; Benzo(b)fluoranthene: not detected in 2 of 4 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in 3 of 4 samples at DL exceeding criterion; Dibenzo(a,h)anthracene: not detected in 4 of 4 samples at DL exceeding criterion; Indeno(1,2,3-cd)pyrene: not detected in 3 of 4 samples at DL exceeding criterion

[13] Anthracene: not detected in 3 of 4 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in 3 of 4 samples at DL exceeding criterion; Fluoranthene: not detected in 2 of 4 samples at DL exceeding criterion; Naphthalene: not detected in 4 of 4 samples at DL exceeding criterion; Phenanthrene: not detected in 3 of 4 samples at DL exceeding criterion; Pyrene: not detected in 2 of 4 samples at DL exceeding criterion

[14] Arsenic not detected in 1 of 7 samples at DL exceeding criterion

[15] Antimony: not detected in 4 of 7 samples at DL exceeding criterion; Se: not detected in 4 of 7 samples at DL exceeding criterion; Thallium: not detected in 7 of 7 samples at DL exceeding criterion

[16] Benzo(a)anthracene: not detected in 5 of 7 samples at DL exceeding criterion; Benzo(b)fluoranthene: not detected in 5 of 7 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in 5 of 7 samples at DL exceeding criterion; Dibenzo(a,h)anthracene: not detected in 6 of 7 samples at DL exceeding criterion; Indeno(1,2,3-cd)pyrene: not detected in 5 of 7 samples at DL exceeding criterion

[17] Anthracene: not detected in 7 of 7 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in 5 of 7 samples at DL exceeding criterion; Fluoranthene: not detected in 5 of 7 samples at DL exceeding criterion; Naphthalene: not detected in 7 of 7 samples at DL exceeding criterion; Phenanthrene: not detected in 6 of 7 samples at DL exceeding criterion; Pyrene: not detected in 5 of 7 samples at DL exceeding criterion

[18] Total PCBs = sum of aroclors omitting non-detected values

Table 5-4. Comparison of Average Mine Waste and Material Compositions to Average Background Soil Concentrations

		Mean Soil Background (Ave. of 6)	Tailings				Other Mine Wastes and Materials					
			Main Impoundment		Mill Site [1]		Historic Waste Rock & Slag		Other Historic Processed Materials		Fine Ore Bins at 1950s Mill	
			average	n>bkg	average	n>bkg	average	n>bkg	average	n>bkg	average	n>bkg
Aluminum	mg/kg	12,950	4,213	0 of 8	6,096	1 of 5	27,167	4 of 6	11,550	1 of 4	5,700	0 of 2
Antimony	mg/kg	<7.5	--	0 of 0	<3.6	0 of 3	<6.9	0 of 3	<3.6	0 of 2	<3.3	0 of 2
Arsenic	mg/kg	2.5	***8.6***	6 of 7	2.6	1 of 5	<1.8	1 of 4	<1.2	0 of 4	3.6	2 of 2
Barium	mg/kg	67	175	8 of 8	97	3 of 5	***239***	6 of 7	143	4 of 4	175	2 of 2
Beryllium	mg/kg	<0.69	<0.18	0 of 8	<0.30	0 of 4	<0.98	3 of 7	<0.26	0 of 3	<0.53	0 of 2
Cadmium	mg/kg	<0.62	4.5	5 of 6	<2.7	2 of 5	<1.3	4 of 7	<1.7	3 of 4	<0.49	0 of 2
Chromium	mg/kg	14.4	27.8	6 of 8	25.8	3 of 5	32.6	5 of 7	18.0	1 of 4	30.5	2 of 2
Cobalt	mg/kg	<6.4	***137***	8 of 8	***<50.4***	2 of 5	***86.5***	7 of 7	<30.4	3 of 4	***72***	2 of 2
Copper	mg/kg	38.5	***1,719***	8 of 8	***1,375***	5 of 5	***3,516***	7 of 7	***4,193***	4 of 4	***12,800***	2 of 2
Iron	mg/kg	28,833	***129,875***	8 of 8	82,000	5 of 5	***165,333***	5 of 6	***157,750***	4 of 4	***160,000***	2 of 2
Lead	mg/kg	10.3	15.2	6 of 8	14.9	4 of 5	18.0	6 of 7	***77.8***	4 of 4	16.5	2 of 2
Manganese	mg/kg	284	263	1 of 8	195	1 of 5	***1,512***	4 of 6	193	0 of 4	185	0 of 2
Mercury	mg/kg	<0.08	***0.46***	8 of 8	0.23	5 of 5	<0.22	7 of 7	<0.22	4 of 4	***0.30***	2 of 2
Nickel	mg/kg	<5.4	<10.4	6 of 8	<13.3	3 of 5	<13.2	5 of 5	<7.5	1 of 4	<5.4	1 of 2
Selenium	mg/kg	<6.5	***43***	8 of 8	<13.8	3 of 5	<12.4	4 of 7	<8.1	3 of 4	***29.5***	2 of 2
Silver	mg/kg	<1.1	<1.8	6 of 8	0.84	1 of 4	<3.5	7 of 7	***<7.0***	4 of 4	***4.6***	2 of 2
Thallium	mg/kg	<3.1	<2.9	1 of 8	<3.0	1 of 4	<3.8	1 of 5	<3.4	2 of 3	<2.6	0 of 2
Vanadium	mg/kg	24	52	6 of 8	27	2 of 5	49.7	5 of 7	34.8	2 of 4	46	2 of 2
Zinc	mg/kg	48	***622***	5 of 8	***597***	5 of 5	***808***	5 of 6	***611***	4 of 4	***249***	2 of 2
Paste pH			2.63		3.66		4.33		3.71		2.32	
Total Sulfur	%		6.87		6.57		1.41		3.16		6.41	
Acid Generating Potential	tons/kton		126		143		16.1		23.4		98.8	
Net Neutralizing Potential	tons/kton		-124		-77.1		-0.2		-23.1		-98.5	

"<" indicates that one or more values was non-detected; detection limit used for non-detected values

Bold Italics = more than 3X average background

Paste pH is median value

n>bkg = number of samples exceeding average background; detection limit used for non-detected values

[1] Includes samples of material eroded from tailings pile

Table 5-5. Comparison of Average Soil Compositions in the Ore Knob Area to Average Background Soil Concentrations

		Mean Soil Background (Ave. of 6)	Soils Around Historic Operations		Soils Adjacent to Main Tailings Impoundment		Soils on 1950s Mill Site		Floodplain Soils [1]	
			average	n>bkg	average	n>bkg	average	n>bkg	average	n>bkg
Aluminum	mg/kg	12,950	20,857	7 of 7	24,000	2 of 2	8,954	3 of 13	9,763	4 of 8
Antimony	mg/kg	<7.5	<4.5	0 of 7	--	0 of 0	<4.0	0 of 2	<12.0	2 of 3
Arsenic	mg/kg	2.5	<2.7	1 of 7	3.0	1 of 2	<21.8	3 of 8	<2.3	3 of 8
Barium	mg/kg	67	<75.9	3 of 7	86.5	1 of 2	93.2	8 of 13	106	7 of 8
Beryllium	mg/kg	<0.69	<0.48	1 of 7	0.73	1 of 2	<0.38	2 of 12	<0.49	3 of 8
Cadmium	mg/kg	<0.62	<0.51	0 of 7	<0.58	0 of 2	<1.0	6 of 12	<1.3	5 of 8
Chromium	mg/kg	14.4	26.3	7 of 7	24.5	2 of 2	26.2	8 of 13	22.4	5 of 8
Cobalt	mg/kg	<6.4	11	6 of 7	7.4	1 of 2	***<37.8***	10 of 13	16.8	5 of 8
Copper	mg/kg	38.5	***275***	7 of 7	47.5	1 of 2	***1,627***	9 of 13	***362***	7 of 8
Iron	mg/kg	28,833	47,143	7 of 7	29,500	1 of 2	79,385	6 of 13	***161,800***	6 of 8
Lead	mg/kg	10.3	16.7	6 of 7	12.5	2 of 2	15.6	6 of 13	10.1	2 of 8
Manganese	mg/kg	284	275	3 of 7	165	0 of 2	291	7 of 13	209	1 of 8
Mercury	mg/kg	<0.08	<0.17	2 of 7	<0.06	0 of 2	<0.19	11 of 13	<0.17	7 of 8
Nickel	mg/kg	<5.4	10.4	6 of 7	11.3	2 of 2	<9.7	9 of 13	<7.1	4 of 8
Selenium	mg/kg	<6.5	<3.3	1 of 7	--	0 of 0	<12.1	4 of 11	<16.0	4 of 5
Silver	mg/kg	<1.1	<0.87	2 of 7	<1.1	1 of 2	<1.2	4 of 9	<0.94	4 of 8
Thallium	mg/kg	<3.1	<2.9	0 of 7	<2.9	0 of 2	<4.3	5 of 12	<4.4	4 of 7
Vanadium	mg/kg	24	39	7 of 7	41	2 of 2	26	6 of 13	40	6 of 8
Zinc	mg/kg	48	104	5 of 7	62	2 of 2	***334***	8 of 13	76	7 of 8
Paste pH			5.22		4.40		3.86		3.63	
Total Sulfur	%		0.13		0.08		1.79		0.98	
Acid Generating Potential	tons/kton		1.9		0.5		21.7		7.5	
Net Neutralizing Potential	tons/kton		5.1		-0.2		-21.4		-7.2	

"<" indicates that one or more values was non-detected; detection limit used for non-detected values

Bold Italics = more than 3X average background

Paste pH is median value

n>bkg = number of samples exceeding average background; detection limit used for non-detected values

[1] Includes samples from the floodplains of Ore Knob Branch, Little Peak Creek,and Peak Creek

Table 5-6. Comparison of Tailings Samples to Soil Screening Values

		Soil Screening Values			Main Tailings Impoundment					Mill Site Tailings and Eroded Tailings					Soils Adjacent to Main Tailings Impoundment				
		Region 6 Human Health PRG[1]		Region 4 RAGS[2]															
		Residential Soil	Industrial Outdoor Worker Soil	Ecological Risk	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value
Inorganic Constituents																			
Aluminum	mg/kg	77,000	100,000	50	8	0	0	8	9,000	5	0	0	5	14,000	2	0	0	2	24,000
Antimony	mg/kg	31	450	3.5	0 [4]					3	0	0	0 [6]	7 U	0 [10]				
Arsenic (non-cancer)	mg/kg	22	280	10	7	0	0	2	16 J	5	0	0	0	4.4 J	2	0	0	0	3.5 J
Arsenic (cancer)	mg/kg	0.39	1.8		7	7	6		16 J	5	5	5		4.4 J	2	2	2	--	3.5 J
Barium	mg/kg	16,000	100,000	165	8	0	0	4	240 J	5	0	0	1	230	2	0	0	0	110
Beryllium	mg/kg	160	2,200	1.1	8	0	0	0	0.58 U	4	0	0	0	0.58 U	2	0	0	0	0.8
Cadmium	mg/kg	39	560	1.6	8	0	0	3	20 J	5	0	0	1	11	2	0	0	0	0.58 U
Chromium (total)	mg/kg	210	500	0.4	8	0	0	8	58 J	5	0	0	5	68	2	0	0	2	25
Cobalt	mg/kg	900	2,100	20	8	0	0	7	230	5	0	0	1	230	2	0	0	0	9
Copper	mg/kg	2,900	42,000	40	8	1	0	8	4,800 J	5	1	0	5	3,800 J	2	0	0	0	33 J
Iron	mg/kg	55,000	100,000	200	8	8	7	8	180,000 J	5	3	2	5	180,000 J	2	0	0	2	28,000 J
Lead	mg/kg	400	800	50	8	0	0	0	23 J	5	0	0	0	23 J	2	0	0	0	13 J
Manganese	mg/kg	3,500	35,000	100	8	0	0	6	730 J	5	0	0	2	540	2	0	0	2	230 J
Mercury	mg/kg	23	340	0.1	8	0	0	8	0.71	5	0	0	5	0.31	2	0	0	0	0.08 U
Nickel	mg/kg	1,600	23,000	30	8	0	0	0	25 J	5	0	0	1	45 J	2	0	0	0	14 J
Selenium	mg/kg	390	5,700	0.81	8	0	0	8	87 J	5	0	0	5	28	0 [10]				
Silver	mg/kg	390	5,700	2	8	0	0	3	2.8	5	0	0	0	1.7	2	0	0	0	1.2 U
Thallium	mg/kg	5.5	79	1	8	0	0	-- [5]	3.5 U	4	0	0	-- [5]	3.3 U	2	0	0	0 [11]	2.9 U
Vanadium	mg/kg	390	5,700	2	8	0	0	8	170 J	5	0	0	5	48	2	0	0	2	43
Zinc	mg/kg	2,300	100,000	50	8	0	0	7	1,400 J	5	1	0	5	2,500 J	2	0	0	2	67 J
Cyanide (total)				5	4			0	3 U	4			1	8.8 J	0				
Organic Constituents																			
Acenaphthene	mg/kg	3,700	33,000	20	1	0	0	0	0.17 U	2	0	0	0	0.23 U	2	0	0	0	0.23 U
Anthracene	mg/kg	22,000	100,000	0.1	1	0	0	-- [8]	0.17 U	2	0	0	-- [8]	0.23 U	2	0	0	-- [8]	0.23 U
Benzo(a)anthracene	mg/kg	0.15	2.3		1	-- [7]	0		0.17 U	2	-- [7]	0		0.23 U	2	-- [7]	0		0.23 U
Benzo(b)fluoranthene	mg/kg	0.15	2.3		1	-- [7]	0		0.17 U	2	-- [7]	0		0.23 U	2	-- [7]	0		0.23 U
Benzo(g,h,i)perylene	mg/kg				1				0.17 U	2				0.23 U	2				0.23 U
Benzo(k)fluoranthene	mg/kg	1.5	23		1	0	0		0.17 U	2	0	0		0.23 U	2	0	0		0.23 U
Benzo(a)pyrene	mg/kg	0.015	0.23	0.1	1	-- [7]	0	-- [8]	0.17 U	2	-- [7]	0	-- [8]	0.23 U	2	-- [7]	0	-- [8]	0.23 U
Chrysene	mg/kg	15	230		1	0	0		0.17 U	2	0	0		0.23 U	2	0	0		0.23 U
Dibenzo(a,h)anthracene	mg/kg	0.015	0.23		1	-- [7]	0		0.17 U	2	-- [7]	0		0.23 U	2	-- [7]	0		0.23 U
Fluoranthene	mg/kg	2,300	24,000	0.1	1	0	0	-- [8]	0.17 U	2	0	0	-- [8]	0.23 U	2	0	0	-- [8]	0.23 U
Fluorene	mg/kg	2,600	26,000		1	0	0		0.17 U	2	0	0		0.23 U	2	0	0		0.23 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.15	2.3		1	-- [7]	0		0.17 U	2	-- [7]	0		0.23 U	2	-- [7]	0		0.23 U
Naphthalene	mg/kg	120	210	0.1	1	0	0	-- [8]	0.17 U	2	0	0	-- [8]	0.23 U	2	0	0	-- [8]	0.23 U
Phenanthrene	mg/kg			0.1	1			-- [8]	0.17 U	2			-- [8]	0.23 U	2			-- [8]	0.23 U
Pyrene	mg/kg	2,300	32,000	0.1	1	0	0	-- [8]	0.17 U	2	0	0	-- [8]	0.23 U	2	0	0	-- [8]	0.23 U
Low Molecular Weight PAH[9] - soil invertebrate	mg/kg			29	1					2					2				
Low Molecular Weight PAH[9]-mammal	mg/kg			100	1					2					2				
High Molecular Weight PAH[9]-soil invertebrate	mg/kg			18	1					2					2				
High Molecular Weight PAH[9]-mammal	mg/kg			1.1	1					2					2				
Aroclor 1016	mg/kg	3.9	24		1	0	0		0.035 UJ	1	0	0		0.041 U	2	0	0		0.045 U
Aroclor 1221	mg/kg	0.22	0.83		1	0	0		0.035 UJ	1	0	0		0.041 U	2	0	0		0.045 U
Aroclor 1232	mg/kg	0.22	0.83		1	0	0		0.035 UJ	1	0	0		0.041 U	2	0	0		0.045 U
Aroclor 1242	mg/kg	0.22	0.83		1	0	0		0.035 UJ	1	0	0		0.041 U	2	0	0		0.045 U
Aroclor 1248	mg/kg	0.22	0.83		1	0	0		0.035 UJ	1	0	0		0.041 U	2	0	0		0.045 U
Aroclor 1254	mg/kg	0.22	0.83		1	0	0		0.035 UJ	1	0	0		0.041 U	2	0	0		0.045 U
Aroclor 1260	mg/kg	0.22	0.83		1	0	0		0.035 UJ	1	0	0		0.041 U	2	0	0		0.045 U
Total PCB[12]	mg/kg			0.2	1			0	0.035 UJ	1			0	0.041 U	2			0	0.045 U

[1] EPA Region 6 Human Health Medium-Specific Screening Levels, 2008

[2] EPA Retion 4, Supplement to RAGS, 2001

[3] Number of samples analyzed does not include field duplicates and rejected values

[4] Results for antimony rejected for all samples

[5] Thallium not detected in any samples; DL exceeded criterion in all samples

[6] Antimony not detected in any samples; DL exceeded criterion in one sample

[7] Benzo(a)anthracene: not detected in any samples at DL exceeding criterion; Benzo(b)fluoranthene: not detected in any samples at DL exceeding criterion; Benzo(a)pyrene: not detected in any samples at DL exceeding criterion; Dibenzo(a,h)anthracene: not detected in any samples at DL exceeding criterion; Indeno(1,2,3-cd)pyrene: not detected in any samples at DL exceeding criterion

[8] Anthracene: not detected in any samples at DL exceeding criterion; Benzo(a)pyrene: not detected in any samples at DL exceeding criterion; Fluoranthene: not detected in any samples at DL exceeding criterion; Naphthalene: not detected in any samples at DL exceeding criterion; Phenanthrene: not detected in any samples at DL exceeding criterion; Pyrene: not detected in any samples at DL exceeding criterion

[9] Low Molecular Weight PAH = sum of Acenaphthene, Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Naphthalene, and Phenanthrene. High Molecular Weight PAH = sum of Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzo(a)pyrene, Chrysene, Indeno(1,2,3-cd)pyrene, and Pyrene. Both calculations omit non-detected analytes

[10] Antimony: results rejected for all samples; Selenium: results rejected for all samples

[11] Thallium: not detected in any samples at DL exceeding criterion

[12] Total PCBs = sum of aroclors omitting non-detected values

Table 5-7. Comparison of Mine Waste and Soil Samples in the Vicinity of the 1950s Mill and Processing Area to Soil Screening Values

		Soil Screening Values			Fine Ore Piles on the 1950s Mill Site					Soils from the 1950s Mill Site				
		Region 6 Human Health PRG[1]		Region 4 RAGS[2]										
		Residential Soil	Industrial Outdoor Worker Soil	Ecological Risk	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value
Inorganic Constituents														
Aluminum	mg/kg	77,000	100,000	50	2	0	0	2	6,900	13	0	0	13	1,600 J
Antimony	mg/kg	31	450	3.5	2	0	0	1[4]	6.3 UJ	2	0	0	0[6]	6.9 U
Arsenic (non-cancer)	mg/kg	22	280	10	2	0	0	0	4 J	8	0	0	2	150 J
Arsenic (cancer)	mg/kg	0.39	1.8	--	2	2	2	--	4 J	8	6[5]	4[5]	--	150 J
Barium	mg/kg	16,000	100,000	165	2	0	0	1	210	13	0	0	2	240
Beryllium	mg/kg	160	2,200	1.1	2	0	0	0	0.53 U	12	0	0	0	0.8
Cadmium	mg/kg	39	560	1.6	2	0	0	0	0.52 U	12	0	0	1	3.9
Chromium (total)	mg/kg	210	500	0.4	2	0	0	2	37	13	0	0	13	120
Cobalt	mg/kg	900	2,100	20	2	0	0	2	110	13	0	0	3	310
Copper	mg/kg	2,900	42,000	40	2	2	0	2	20,000 J	13	2	0	9	9,600 J
Iron	mg/kg	55,000	100,000	200	2	2	2	2	200,000 J	13	4	3	13	370,000 J
Lead	mg/kg	400	800	50	2	0	0	0	17 J	13	0	0	0	49 J
Manganese	mg/kg	3,500	35,000	100	2	0	0	2	240	13	0	0	11	810
Mercury	mg/kg	23	340	0.1	2	0	0	2	0.38	13	0	0	9[6]	0.49 U
Molybdenum	mg/kg	390	5,700	2	0	--	--	--	--	0	--	--	--	--
Nickel	mg/kg	1,600	23,000	30	2	0	0	0	6.5 J	13	0	0	1	40 J
Selenium	mg/kg	390	5,700	0.81	2	0	0	2	0.38	11	0	0	7[6]	77 J
Silver	mg/kg	390	5,700	2	2	0	0	2	5.3	9	0	0	1	2.2
Thallium	mg/kg	5.5	79	1	2	0	0	--[4]	2.6 UJ	12	2	0	--[6]	12 U
Vanadium	mg/kg	390	5,700	2	2	0	0	2	55	13	0	0	13	45
Zinc	mg/kg	2,300	100,000	50	2	0	0	2	420 J	13	1	0	8	2,700 J
Cyanide (total)	mg/kg	--	--	5	0	--	--	--	--	10	--	--	0[6]	12 U
Organic Constituents														
2-Methylnaphthalene	mg/kg	--	--	--	0	--	--	--	--	13	--	--	--	17 U
Acenaphthene	mg/kg	3,700	33,000	20	0	--	--	--	--	13	0	0	0	17 U
Acenaphthylene	mg/kg	--	--	--	0	--	--	--	--	13	--	--	--	17 U
Anthracene	mg/kg	22,000	100,000	0.1	0	--	--	--	--	13	0	0	--[9]	17 U
Benzaldehyde	mg/kg	6,100	68,000	--	0	--	--	--	--	13	0	0	--	17 U
Benzo(a)anthracene	mg/kg	0.15	2.3	--	0	--	--	--	--	13	1[7]	0[8]	--	17 U
Benzo(b)fluoranthene	mg/kg	0.15	2.3	--	0	--	--	--	--	13	1[7]	0[8]	--	17 U
Benzo(g,h,i)perylene	mg/kg	--	--	--	0	--	--	--	--	13	--	--	--	17 U
Benzo(k)fluoranthene	mg/kg	1.5	23	--	0	--	--	--	--	13	0[7]	0	--	17 U
Benzo(a)pyrene	mg/kg	0.015	0.23	0.1	0	--	--	--	--	13	4[7]	1[8]	1[9]	17 U
bis(2-Ethylhexyl) Phthalate	mg/kg	35	140	--	0	--	--	--	--	13	0	0	--	17 U
Carbazole	mg/kg	24	96	--	0	--	--	--	--	13	0	0	--	17 U
Chrysene	mg/kg	15	230	--	0	--	--	--	--	13	0	0	--	17 U
Dibenzo(a,h)anthracene	mg/kg	0.015	0.23	--	0	--	--	--	--	13	1[7]	0[8]	--	17 U
Fluoranthene	mg/kg	2,300	24,000	0.1	0	--	--	--	--	13	0	0	2[9]	17 U
Fluorene	mg/kg	2,600	26,000	--	0	--	--	--	--	13	0	0	--	17 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.15	2.3	--	0	--	--	--	--	13	1[7]	0[8]	--	17 U
Naphthalene	mg/kg	120	210	0.1	0	--	--	--	--	13	0	0	2[9]	17 U
Phenanthrene	mg/kg	--	--	0.1	0	--	--	--	--	13	--	--	3[9]	17 U
Pyrene	mg/kg	2,300	32,000	0.1	0	--	--	--	--	13	0	0	--[9]	17 U
Low Molecular Weight PAH[10] - soil invertebrate	mg/kg	--	--	29	0	--	--	--	--	13	--	--	0	0.53
Low Molecular Weight PAH[10]-mammal	mg/kg	--	--	100	0	--	--	--	--	13	--	--	0	0.53
High Molecular Weight PAH[10]-soil invertebrate	mg/kg	--	--	18	0	--	--	--	--	13	--	--	0[11]	2.00

High Molecular Weight PAH [10]-mammal	mg/kg	_	_	1.1	0	_	_	_	_	13	_	_	1 [11]	2.00
Aroclor 1016	mg/kg	3.9	24	_	0	_	_	_	_	10	0	0	_	0.13 U
Aroclor 1221	mg/kg	0.22	0.83	_	0	_	_	_	_	10	0	0	_	0.13 U
Aroclor 1232	mg/kg	0.22	0.83	_	0	_	_	_	_	10	0	0	_	0.13 U
Aroclor 1242	mg/kg	0.22	0.83	_	0	_	_	_	_	10	0	0	_	0.13 U
Aroclor 1248	mg/kg	0.22	0.83	_	0	_	_	_	_	10	0	0	_	0.13 U
Aroclor 1254	mg/kg	0.22	0.83	_	0	_	_	_	_	10	0	0	_	0.13 U
Aroclor 1260	mg/kg	0.22	0.83	_	0	_	_	_	_	10	0	0	_	0.13 U
Total PCB [11]	mg/kg	_	_	0.2	0	_	_	_	_	10	_	_	0	0.053

[1] EPA Region 6 Human Health Medium-Specific Screening Levels, 2008

[2] EPA Region 4, Supplement to RAGS, 2001

[3] Number of samples analyzed does not include field duplicates and rejected values

[4] Antimony: not detected in 1 of 2 samples at DL exceeding criterion; Thallium: not detected in any samples at DL exceeding criterion

[5] Arsenic: not detected in 2 of 8 samples at DL that exceeded criterion for residential soil and 1 of 8 samples at DL that exceeded critieron for industrial soil

[6] Antimony: not detected in 1 of 2 samples at DL exceeding criterion; Mercury: not detected in 2 of 13 samples at DL exceeding criterion; Selenium: not detected in 4 of 11 samples at DL exceeding criterion; Thallium: not detected in any samples at DL exceeding criterion; Cyanide: not detected in 2 of 10 samples at DL exceeding criterion

[7] Benzo(a)anthracene: not detected in 10 of 13 samples at DL exceeding criterion; Benzo(b)fluoranthene: not detected in 7 of 13 samples at DL exceeding criterion; Benzo(k) fluoranthene: not detected in 2 of 13 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in 9 of 13 samples at DL exceeding criterion; Dibenzo(a,h)anthracene: not detected in 12 of 13 samples at DL exceeding criterion; Indeno(1,2,3-cd)pyrene: not detected in 9 of 13 samples at DL exceeding criterion

[8] Benzo(a)anthracene: not detected in 2 of 13 samples at DL exceeding criterion; Benzo(b)fluoranthene: not detected in 2 of 13 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in 5 of 13 samples at DL exceeding criterion; Dibenzo(a,h)anthracene: not detected in 5 of 13 samples at DL exceeding criterion; Indeno(1,2,3-cd)pyrene: not detected in 2 of 13 samples at DL exceeding criterion

[9] Anthracene: not detected in 13 of 13 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in 9 of 13 samples at DL exceeding criterion; Fluoranthene: not detected in 10 of 13 samples at DL exceeding criterion; Naphthalene: not detected in 13 of 13 samples at DL exceeding criterion; Phenanthrene: not detected in 10 of 13 samples at DL exceeding criterion; Pyrene: not detected in 10 of 13 samples at DL exceeding criterion

[10] Low Molecular Weight PAH = sum of Acenaphthene, Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Naphthalene, and Phenanthrene. High Molecular Weight PAH = sum of Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzo(a)pyrene, Chrysene, Indeno(1,2,3-cd)pyrene, and Pyrene. Both calculations omit non-detected analytes.

[11] Total PCBs = sum of aroclors omitting non-detected values

Table 5-8. Comparison of Soil Samples Collected from Stream Floodplains to Soil Screening Values

		Soil Screening Values			Floodplain Soils				
		Region 6 Human Health PRG[1]		Region 4 RAGS[2]					
		Residential Soil	Industrial Outdoor Worker Soil	Ecological Risk	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value
Inorganic Constituents									
Aluminum	mg/kg	77,000	100,000	50	8	0	0	8	18,000
Antimony	mg/kg	31	450	3.5	3	0	0	0[6]	27 U
Arsenic (non-cancer)	mg/kg	22	280	10	8	0	0	0	4.6 U
Arsenic (cancer)	mg/kg	0.39	1.8	--	8	6[4]	2[4]	--	4.6 U
Barium	mg/kg	16,000	100,000	165	8	0	0	1	270
Beryllium	mg/kg	160	2,200	1.1	8	0	0	0	0.9
Cadmium	mg/kg	39	560	1.6	8	0	0	1[6]	4
Chromium (total)	mg/kg	210	500	0.4	8	0	0	8	35
Cobalt	mg/kg	900	2,100	20	8	0	0	1	72 J
Copper	mg/kg	2,900	42,000	40	8	0	0	7	900 J
Iron	mg/kg	55,000	100,000	200	8	4	3	8	550,000 J
Lead	mg/kg	400	800	50	8	0	0	0	24 J
Manganese	mg/kg	3,500	35,000	100	8	0	0	7	370 J
Mercury	mg/kg	23	340	0.1	8	0	0	3[6]	0.27
Molybdenum	mg/kg	390	5,700	2	8	--	--	--	--
Nickel	mg/kg	1,600	23,000	30	8	0	0	0	14 J
Selenium	mg/kg	390	5,700	0.81	5	0	0	4[6]	23 J
Silver	mg/kg	390	5,700	2	8	0	0	0	1.4 J
Thallium	mg/kg	5.5	79	1	7	0[5]	0	--[6]	11 U
Vanadium	mg/kg	390	5,700	2	8	0	0	8	73
Zinc	mg/kg	2,300	100,000	50	8	0	0	7	130 J
Cyanide (total)	mg/kg	--	--	5	2	--	--	0	3.6 U
Organic Constituents									
2-Methylphenol	mg/kg	--	--	--	8	--	--	--	0.47 U
Acenaphthene	mg/kg	3,700	33,000	20	8	0	0	0	0.47 U
Acenaphthylene	mg/kg	--	--	--	8	--	--	--	0.47 U
Anthracene	mg/kg	22,000	100,000	0.1	8	0	0	--[9]	0.47 U
Benzaldehyde	mg/kg	6,100	68,000	--	8	0	0	--	0.47 U
Benzo(a)anthracene	mg/kg	0.15	2.3	--	8	--[7]	0	--	0.47 U
Benzo(b)fluoranthene	mg/kg	0.15	2.3	--	8	0[7]	0	--	0.47 U
Benzo(g,h,i)perylene	mg/kg	--	--	--	8	--	--	--	0.47 U
Benzo(k)fluoranthene	mg/kg	1.5	23	--	8	0	0	--	0.47 U
Benzo(a)pyrene	mg/kg	0.015	0.23	0.1	8	--[7]	0[8]	0[9]	0.47 U
Chrysene	mg/kg	15	230	--	8	0	0	--	0.47 U
Dibenzo(a,h)anthracene	mg/kg	0.015	0.23	--	8	--[7]	0[8]	--	0.47 U
Fluoranthene	mg/kg	2,300	24,000	0.1	8	0	0	--[9]	0.47 U
Fluorene	mg/kg	2,600	26,000	--	8	0	0	--	0.47 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.15	2.3	--	8	--[7]	0	--	0.47 U
Naphthalene	mg/kg	120	210	0.1	8	0	0	--[9]	0.47 U
Phenanthrene	mg/kg	--	--	0.1	8	--	--	--[9]	0.47 U
Pyrene	mg/kg	2,300	32,000	0.1	8	0	0	--[9]	0.47 U
Low Molecular Weight PAH[10] - soil invertebrate	mg/kg	--	--	29	8	--	--	0	--
Low Molecular Weight PAH[10]-mammal	mg/kg	--	--	100	8	--	--	0	--
High Molecular Weight PAH[10]-soil invertebrate	mg/kg	--	--	18	8	--	--	0	0.044
High Molecular Weight PAH[10]-mammal	mg/kg	--	--	1.1	8	--	--	0	0.044
Aroclor 1016	mg/kg	3.9	24	--	8	0	0	--	0.088 U
Aroclor 1221	mg/kg	0.22	0.83	--	8	0	0	--	0.088 U
Aroclor 1232	mg/kg	0.22	0.83	--	8	0	0	--	0.088 U
Aroclor 1242	mg/kg	0.22	0.83	--	8	0	0	--	0.088 U
Aroclor 1248	mg/kg	0.22	0.83	--	8	0	0	--	0.088 U
Aroclor 1254	mg/kg	0.22	0.83	--	8	0	0	--	0.088 U
Aroclor 1260	mg/kg	0.22	0.83	--	8	0	0	--	0.088 U
Total PCB[11]	mg/kg	--	--	0.2	8	--	--	--	--

[1] EPA Region 6 Human Health Medium-Specific Screening Levels, 2008

[2] EPA Region 4, Supplement to RAGS, 2001

[3] Number of samples analyzed does not include field duplicates and rejected values

[4] Arsenic: not detected in 2 of 8 samples at DL that exceeded criterion for residential soil and 1 of 8 samples at DL that exceeded critieron for industrial soil

[5] Thallium: not detected in 1 of 7 samples at DL exceeding criterion

[6] Antimony: not detected in 2 of 3 samples at DL exceeding criterion; Cadmium: not detected in 1 of 8 samples at DL exceeding criterion; Mercury: not detected in 3 of 8 samples at DL exceeding criterion; Selenium: not detected in 1 of 5 samples at DL exceeding criterion; Thallium: not detected in any samples at DL exceeding criterion.

[7] Benzo(a)anthracene: not detected in any samples at DL exceeding criterion; Benzo(b)fluoranthene: not detected in 7 of 8 samples at DL exceeding criterion; Benzo(a)pyrene: not detected in any samples at DL exceeding criterion; Dibenzo(a,h)anthracene: not detected in any samples at DL exceeding criterion; Indeno(1,2,3-cd)pyrene: not detected in any samples at DL exceeding criterion

[8] Benzo(a)pyrene: not detected in 1 of 8 samples at DL exceeding criterion; Dibenzo(a,h)anthracene: not detected in 1 of 8 samples at DL exceeding criterion

[9] Anthracene, Benzo(a)pyrene, Fluoranthene, Naphthalene, Phenanthrene, Pyrene: not detected in any samples at DL exceeding criterion

[10] Low Molecular Weight PAH = sum of Acenaphthene, Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Naphthalene, and Phenanthrene. High Molecular Weight PAH = sum of Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzo(a)pyrene, Chrysene, Indeno(1,2,3-cd)pyrene, and Pyrene. Both calculations omit non-detected analytes.

[11] Total PCBs = sum of aroclors omitting non-detected values

Table 5-9. Comparison of Residential Soil Samples to Soil Screening Values

		Soil Screening Values			Residential Soil Samples				
		Region 6 Human Health PRG[1]		Region 4 RAGS[2]					
		Residential Soil	Industrial Outdoor Worker Soil	Ecological Risk	Number of Samples[3]	n Residential HH	n Industrial HH	n Ecological	Maximum Value
Inorganic Constituents									
Aluminum	mg/kg	77,000	100,000	50	3	0	0	3	19,000
Antimony	mg/kg	31	450	3.5	2	0	0	–	1.6
Arsenic (non-cancer)	mg/kg	22	280	10	3	0	0	0	3.4U
Arsenic (cancer)	mg/kg	0.39	1.8	–	3	1	1	–	3.4U
Barium	mg/kg	16,000	100,000	165	3	0	0	0	110
Beryllium	mg/kg	160	2,200	1.1	3	0	0	0	0.78
Cadmium	mg/kg	39	560	1.6	3	0	0	0	1.7U
Chromium (total)	mg/kg	210	500	0.4	3	0	0	3	27
Cobalt	mg/kg	900	2,100	20	3	0	0	0	19J
Copper	mg/kg	2,900	42,000	40		0	0	2	1,800J
Iron	mg/kg	55,000	100,000	200	3	1	0	3	60,000J
Lead	mg/kg	400	800	50	3	0	0	0	15J
Manganese	mg/kg	3,500	35,000	100	3	0	0	3	1,200J
Mercury	mg/kg	23	340	0.1	3	0	0	1	0.48
Molybdenum	mg/kg	390	5,700	2	0	–	–	–	–
Nickel	mg/kg	1,600	23,000	30	3	0	0	0	10J
Selenium	mg/kg	390	5,700	0.81	2	0	0	0	2.6U
Silver	mg/kg	390	5,700	2	2	0	0	0	1.4U
Thallium	mg/kg	5.5	79	1	3	0	0	–	8.6U
Vanadium	mg/kg	390	5,700	2	3	0	0	3	47
Zinc	mg/kg	2,300	100,000	50	3	0	0	2	170J
Cyanide (total)	mg/kg	–	–	5	3	–	–	0	9.3U
Organic Constituents									
Acenaphthene	mg/kg	3,700	33,000	20	3	0	0	0	0.25 U
Acenaphthylene	mg/kg	–	–	–	3	–	–	–	0.25 U
Anthracene	mg/kg	22,000	100,000	0.1	3	0	0	--[6]	0.25 U
Benzaldehyde	mg/kg	6,100	68,000	–	3	0	0	–	0.25 U
Benzo(a)anthracene	mg/kg	0.15	2.3	–	3	--[5]	0	–	0.25 U
Benzo(b)fluoranthene	mg/kg	0.15	2.3	–	3	--[5]	0	–	0.25 U
Benzo(g,h,i)perylene	mg/kg	–	–	–	3	–	–	–	0.25 U
Benzo(k)fluoranthene	mg/kg	1.5	23	–	3	0	0	–	0.25 U
Benzo(a)pyrene	mg/kg	0.015	0.23	0.1	3	--[5]	0	--[6]	0.25 U
Chrysene	mg/kg	15	230	–	3	0	0	–	0.25 U
Dibenzo(a,h)anthracene	mg/kg	0.015	0.23	–	3	--[5]	0	–	0.25 U
Fluoranthene	mg/kg	2,300	24,000	0.1	3	0	0	--[6]	0.25 U
Fluorene	mg/kg	2,600	26,000	–	3	0	0	–	0.25 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.15	2.3	–	3	--[5]	0	–	0.25 U
Naphthalene	mg/kg	120	210	0.1	3	0	0	--[6]	0.25 U
Phenanthrene	mg/kg	–	–	0.1	3	–	–	--[6]	0.25 U
Pyrene	mg/kg	2,300	32,000	0.1	3	0	0	--[6]	–
Low Molecular Weight PAH[7] - soil invertebrate	mg/kg	–	–	29	3	–	–	–	–
Low Molecular Weight PAH[7]-mammal	mg/kg	–	–	100	3	–	–	–	–
High Molecular Weight PAH[7]-soil invertebrate	mg/kg	–	–	18	3	–	–	–	–
High Molecular Weight PAH[7]-mammal	mg/kg	–	–	1.1	3	–	–	–	–
Aroclor 1016	mg/kg	3.9	24	–	1	0	0	–	0.038 U
Aroclor 1221	mg/kg	0.22	0.83	–	1	0	0	–	0.038 U
Aroclor 1232	mg/kg	0.22	0.83	–	1	0	0	–	0.038 U
Aroclor 1242	mg/kg	0.22	0.83	–	1	0	0	–	0.038 U
Aroclor 1248	mg/kg	0.22	0.83	–	1	0	0	–	0.038 U
Aroclor 1254	mg/kg	0.22	0.83	–	1	0	0	–	0.038 U
Aroclor 1260	mg/kg	0.22	0.83	–	1	0	0	–	0.038 U
Total PCB[8]	mg/kg	–	–	0.2	1	–	–	–	–

[1] EPA Region 6 Human Health Medium-Specific Screening Levels, 2008

[2] EPA Region 4, Supplement to RAGS, 2001

[3] Number of samples analyzed does not include field duplicates and rejected values

[5] Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene: not detected in any samples at DL exceeding criterion

[6] Anthracene, Benzo(a)pyrene, Fluoranthene, Naphthalene, Phenanthrene, Pyrene: not detected in any samples at DL exceeding criterion

[7] Low Molecular Weight PAH = sum of Acenaphthene, Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Naphthalene, and Phenanthrene. High Molecular Weight PAH = sum of Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene

[8] Total PCBs = sum of aroclors omitting non-detected values

Table 5-10. Comparison of Average Residential Soil Compositions in the Ore Knob Area to Average Background Soil Concentrations

		Mean Soil Background (Ave. of 6)	Residential Soils	
			average	n>bkg
Aluminum	mg/kg	12,950	14,000	2 of 3
Antimony	mg/kg	<7.5	<1	0 of 2
Arsenic	mg/kg	2.5	<2.2	0 of 3
Barium	mg/kg	67	93.7	3 of 3
Beryllium	mg/kg	<0.69	<0.45	1 of 3
Cadmium	mg/kg	<0.62	<1.0	0 of 1
Chromium	mg/kg	14.4	21.7	3 of 3
Cobalt	mg/kg	<6.4	12.1	3 of 3
Copper	mg/kg	38.5	***662***	2 of 3
Iron	mg/kg	28,833	36,000	2 of 3
Lead	mg/kg	10.3	14	3 of 3
Manganese	mg/kg	284	590	2 of 3
Mercury	mg/kg	<0.08	<0.21	1 of 3
Nickel	mg/kg	<5.4	<9.9	2 of 2
Selenium	mg/kg	<6.5	<1.5	0 of 2
Silver	mg/kg	<1.1	<1.3	0 of 1
Thallium	mg/kg	<3.1	<5	0 of 2
Vanadium	mg/kg	24	35	3 of 3
Zinc	mg/kg	48	93	3 of 3

"<" indicates that one or more values was non-detected; detection limit used for non-detected values

Bold Italics = more than 3X average background

n>bkg = number of samples exceeding average background; non-detected values above average background excluded from analysis

Table 5-11. Comparison of Seep Samples to Ground Water and Surface Water Quality Standards

Criteria from the North Carolina Division of Water Quality (2007)		Class GA Ground Water Quality Standards†	Outstanding Resource Water Quality Criterion‡	Trout Water Quality Criterion‡	Seeps in Headwaters of Ore Knob Branch (OK003 and OK004)				Seeps Emanating from Face of Tailings Dam (OK009, OK010, and OK012)			
					Total Samples	No. GA	No. WQ	Maximum Value	Total Samples	No. GA	No. WQ	Maximum Value
Metals												
Aluminum	ug/L		87		2		2	16,500	3		3	23,700 J
Arsenic	ug/L	50	50		2	0	0	1.5 U	3	0	0	4.5 B
Barium	ug/L	2,000			2	0		18.7	3	0		32.1 J
Beryllium	ug/L		6.5		2		2	25.2	3		0	2.3
Cadmium	ug/L	1.75	2	0.4	2	2	2,2	23.5 J	3	1	1,3	7.8
Calcium	ug/L				2			127,000	3			463,000 J
Chromium	ug/L	50	50		2	0	0	1 U	3	1	1	62
Cobalt	ug/L				2			244 J	3			743 J
Copper	ug/L	1,000	7 (AL)		2	2	2	15,900 J	3	0	3	971 J
Iron	ug/L	300	1,000 (AL)		2	2	0	899	3	3	3	4,090,000
Lead	ug/L	15	25		2	0	0	2.5 U	3	0	0	0.5 U
Magnesium	ug/L				2			6,170	3			130,000 J
Mercury	ug/L	1.05	0.012		2	0	0	R[1]	3	0	0[2]	0.2 U
Molybdenum	ug/L				2			0.3 B	3			5 U
Nickel	ug/L	100	88		2	0	0	67.3 J	3	0	0	73.6 J
Potassium	ug/L				2			9,270	3			46,300
Selenium	ug/L	50	5		2	0	1	6.1	3	0	1	8.4
Silver	ug/L	17.5	0.06 (AL)		2	0	0[2]	0.2 U	3	0	3	4.9
Sodium	ug/L				2			3,280	3			8,490
Vanadium	ug/L				2			3 U	3			23.6 B
Zinc	ug/L	1,050	50 (AL)		2	2	2	4,700 J	3	2	3	4,900
Other Parameters												
pH	s.u	6.5-8.5	6.0-9.0		2	2	2	3.73	3	2	2	3.24
Chloride	mg/L	250	230		2	0	0	3.3 UJ	3	0	0	13.2 U
Sulfate	mg/L	250			2	2		550 J	3	3		10,800 J

*EPA National Recommended Water Quality Criteria (2006)**		Water Quality Criterion	Total Samples	No. WQ	Maximum Value	Total Samples	No. WQ	Maximum Value
Additional Metals								
Antimony	ug/L	640 (D)	2	0	5 U	3	0	0.5 U
Manganese	ug/L	100 (D)	2	2	6,180 J	3	3	25,900 J
Thallium	ug/L	0.47 (D)	2	0	1.5 U	3	0	0.3 U

† Class GA ground water quality standards are from the North Carolina Division of Water Quality (2007); standards refer to total concentrations.
‡ Outstanding Resource Water and Trout Water standards are from the North Carolina Division of Water Quality (2007); standards refer to total concentrations.
* EPA National Recommended Water Quality Criteria (2006) were used for metals that did not have criterion from the North Carolina Division of Water Quality; standards refer to dissolved concentrations.
1. Seep samples from the headwaters of Ore Knob Branch cannot be evaluated for mercury; all results were rejected.
2. Sample results for silver were not detected at reporting levels exceeding the surface water criterion.
AL - action level listed in the EPA National Primary Drinking Water Standards; D - criterion for dissolved metals.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate; B - either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL; E - difference of sample and sample duplicate is >10%; R - the data are rejected and considered unusable.
Maximum value for pH is greatest deviation from acceptable range.

Table 5-12. Comparison of Tailings Impoundment Surface Water Pond Samples to Chronic Surface Water Criteria

Criteria from the North Carolina Division of Water Quality (2007)		Outstanding Resource Water Quality Criterion	Trout Water Quality Criterion	Ponds on the Tailings Impoundment (OK005, OK006, OK007, and OK008) Total Samples	No. WQ	Background Value[§]	No. Background	Maximum Value[§§]
Metals								
Aluminum	ug/L	87 (T)		4	4	258†	2	2,640
Arsenic	ug/L	50 (T)		4	0	1.5 U	0	1.5 U
Barium	ug/L			4		15 J	4	92.9 J
Beryllium	ug/L	6.5 (T)		4	0	0.1 U	2	0.77
Cadmium	ug/L	2 (T)	0.4 (T)	4	0,1	0.1 U	2	1.6 J
Calcium	ug/L			4		2,540	4	40,900
Chromium	ug/L	50 (T)		4	0	3 B	1	3.3
Cobalt	ug/L			4		0.23 J	4	52.7 J
Copper	ug/L	7 (T, AL)		4	3	1.6 J	4	375 J
Iron	ug/L	1,000 (T, AL)		4	4	315 E	4	20,300 E
Lead	ug/L	25 (T)		4	0	0.5 U	1	1.7 J
Magnesium	ug/L			4		1,070	1	5,960
Mercury	ug/L	0.012 (T)		4	0[1]	0.03 U	0[1]	0.03 U
Molybdenum	ug/L			4		0.1 U	0[2]	5 U
Nickel	ug/L	88 (T)		4	0	0.67 J	3	11.5 J
Potassium	ug/L			4		1,050	4	12,600
Selenium	ug/L	5 (T)		4	0	1.5 U	0	1.5 U
Silver	ug/L	0.06 (T, AL)		4	0[1]	0.2 U	0[1]	0.2 U
Sodium	ug/L			4		2,420	1	2,630
Vanadium	ug/L			4		3 U	0	3 U
Zinc	ug/L	50 (T, AL)		4	1	2.9 J	4	532 J
Other Parameters								
pH	s.u.	6.0-9.0		4	3	7.14	4	3.09
Dissolved Oxygen	mg/L	≥5.0	≥6.0	4	0	7.9	4	5.4
Chloride	mg/L	230		4	0	2.7	0[3]	0.9
Total Suspended Solids	mg/L	20	10	4	1,2	2.1 J	3	23

*EPA National Recommended Water Quality Criteria (2006)**		Water Quality Criterion	Total Samples	No. WQ	Background Value[§]	No. Background	Maximum Value[§§]
Additional Metals							
Antimony	ug/L	640 (D)	4	0	0.5 U	0	0.5 U
Manganese	ug/L	100 (D)	4	3	12.6 J	4	1,170
Thallium	ug/L	0.47 (D)	4	0	0.3 U	0[4]	0.3 U

§ Background values are from sample OK015-SW-001 (Peak Creek upstream of Ore Knob Branch); values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.
§§ Maximum values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.
† Background values for aluminum exceed water quality criterion for total metals; dissolved aluminum value is 33.4 J.
* EPA National Recommended Water Quality Criteria (2006) were used for metals that did not have criterion from the North Carolina Division of Water Quality.
1. Sample results for mercury and silver were not detected at reporting levels exceeding the criterion.
2. 1 of 4 results for molybdenum was not detected at a level exceeding the background value.
3. 1 of 4 results for chloride was not detected at a level exceeding the background value.
4. All results for thallium (dissolved) were non-detect; 1 of 4 results had a detection for total thallium (0.6 B).
T - criterion for total metals; D - criterion for dissolved metals; AL - action level set by North Carolina Division of Water Quality.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate; B - either presence of analyte detected in the associate
Maximum value for pH is greatest deviation from acceptable range; maximum value for Dissolved Oxygen is lowest reported value.
Chronic criteria for cadmium, copper, iron, lead, nickel, silver, and zinc are computed at hardness of 50 mg/L.

Table 5-13. Comparison of Ore Knob Branch Surface Water Samples to Chronic Surface Water Criteria

Criteria from the North Carolina Division of Water Quality (2007)		Outstanding Resource Water Quality Criterion	Trout Water Quality Criterion	Ore Knob Branch (OK001, OK002, OK013, and OK014) Total Samples	No. WQ	Background Value§	No. Background	Maximum Value§§	Upwelling Discharge from Collapsed Tailings Pipe‡ (OK011) Total Samples	No. WQ	No. ≥ Background§	Maximum Value§§
Metals												
Aluminum	ug/L	87 (T)		4	4	258†	4	4,660 J	1	1	1	2,670
Arsenic	ug/L	50 (T)		4	0	1.5 U	0	1.5 U	1	0	0	1.5 U
Barium	ug/L			4		15 J	4	31.3 N	1	0	1	35.9 J
Beryllium	ug/L	6.5 (T)		4	1	0.1 U	4	7	1	0	1	0.68
Cadmium	ug/L	2 (T)	0.4 (T)	4	1, 4	0.1 U	4	9.7	1	0	1	1.5 J
Calcium	ug/L			4		2,540	4	130,000	1		1	95,300
Chromium	ug/L	50 (T)		4	0	3 B	2	5.7	1	0	1	4.5
Cobalt	ug/L			4		0.23 J	4	125 J	1		1	63.4 J
Copper	ug/L	7 (T, AL)		4	4	1.6 J	4	4,270 J	1	0	1	255 J
Iron	ug/L	1,000 (T, AL)		4	3	315 E	4	376,000	1	1	1	279,000 E
Lead	ug/L	25 (T)		4	0	0.5 U	1	0.54 J	1	0	1	0.5 J
Magnesium	ug/L			4		1,070	4	18,800	1		1	19,200
Mercury	ug/L	0.012 (T)		4	0[1]	0.03 U	0[1]	0.03 U	1	0	0	0.03 U
Molybdenum	ug/L			4		0.1 U	0	5 U	1		1	0.21 B
Nickel	ug/L	88 (T)		4	0	0.67 J	4	45 J	1	0	1	11.9 J
Potassium	ug/L			4		1,050	4	17,100	1		1	16,000
Selenium	ug/L	5 (T)		4	0	1.5 U	1	2.4 B	1	0	1	1.6 B
Silver	ug/L	0.06 (T, AL)		4	1[1]	0.2 U	1[1]	0.43 B	1	0	1	0.23 B
Sodium	ug/L			4		2,420	3	3,870	1		1	3,330
Vanadium	ug/L			4		3 U	0	3 U	1		0	3 U
Zinc	ug/L	50 (T, AL)		4	4	2.9 J	4	1,720 J	1	0	1	516 J
Other Parameters												
pH	s.u.	6.0-9.0		4	4	7.14	4	2.86	1	1	1	3.61
Dissolved Oxygen	mg/L	≥5.0	≥6.0	4	0, 2	7.9	4	5.1	1		1	4.9
Chloride	mg/L	230		4	0	2.7	0[2]	3.3 UJ	1	0	0	0.9
Total Suspended Solids	mg/L	20	10	4	1, 1	2.1 J	3	83	1		1	135

*EPA National Recommended Water Quality Criteria (2006)**		Water Quality Criterion	Total Samples	No. WQ	Background Value§	No. Background	Maximum Value§§	Total Samples	No. WQ	No. Background	Maximum Value§§
Additional Metals											
Antimony	ug/L	640 (D)	4	0	0.5 U	0	0.5 U	1	0	0	0.5 U
Manganese	ug/L	100 (D)	4	4	9.6 J	4	3,780 J	1	1	1	3,090 J
Thallium	ug/L	0.47 (D)	4	0	0.3 U	1	0.32 B	1	0	1	0.3 B

§ Background values are from sample OK015-SW-001 (Peak Creek upstream of Ore Knob Branch); values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.

§§ Maximum values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.

† Background values for aluminum exceed water quality criterion for total metals; dissolved aluminum value is 33.4 J.

‡ OK011 is considered surface water for the purposes of this comparison; surface water collected at this location is presumably water conveyed by pipe underneath the tailings impoundment.

* EPA National Recommended Water Quality Criteria (2006) were used for metals that did not have criterion from the North Carolina Division of Water Quality.

1. Sample results for mercury and silver were not detected at reporting levels exceeding the criterion; one sample (OK013-SW-001) did exceed water quality criterion for silver.

2. Sample result for chloride was not detected at level exceeding that of the background value.

T - criterion for total metals; D - criterion for dissolved metals; AL - action level set by North Carolina Division of Water Quality.

U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate; B - either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL; E - diff

Maximum value for pH is greatest deviation from acceptable range; maximum value for Dissolved Oxygen is lowest reported value.

Chronic criteria for cadmium, copper, iron, lead, nickel, silver, and zinc are computed at hardness of 50 mg/L.

Table 5-14. Comparison of Ore Knob Branch Sediment Samples to Screening Values

EPA Region 4 Waste Management Division Sediment Screening Values		Conservative Ecological Screening Values	Ore Knob Branch (OK001, OK002, OK004, OK013, and OK014)				
			Total Samples	No. Screening	Background Value[§]	No. Background	Maximum Value
Metals							
Aluminum	mg/kg		5		23,000	2	49,000
Antimony	mg/kg	12	5	0	0.63 UJ	0[1]	7.7 UJ
Arsenic	mg/kg	7.24	5	0	3.3 J	1	3.6 J
Barium	mg/kg		5		260	0	220
Beryllium	mg/kg		5		0.94 U	3	2.2
Cadmium	mg/kg	1	5	3	0.94 U	3	6.7
Calcium	mg/kg		5		4,700 J	0	3,100 J
Chromium	mg/kg	52.3	5	0	47	0	44
Copper	mg/kg	18.7	5	5	500 J†	3	4,200 J
Lead	mg/kg	30.2	5	0	28 J	0	23 J
Magnesium	mg/kg		5		13,000 J	0	6,200 J
Mercury	mg/kg	0.13	5	5	0.2 U[2]	5	0.4
Nickel	mg/kg	15.9	5	2	13 J	2	19 J
Potassium	mg/kg		5		17,000 J	0	7,300
Silver	mg/kg	2	5	0	R[3]	2	1.6
Sodium	mg/kg		5		33 UJ	1[4]	600 J
Thallium	mg/kg		5		4.7 UJ	1[5]	4.4
Vanadium	mg/kg		5		66	1	69
Zinc	mg/kg	124	5	1	170 J†	1	1,000 J

*EPA Region 3 Freshwater Sediment Screening Benchmarks**		Freshwater Sediment Screening Benchmarks	Total Samples	No. Screening	Background Value[§]	No. Background	Maximum Value
Cobalt	mg/kg	50	5	1	11	1	140
Iron	mg/kg	20,000	5	5	69,000 J†	4	330,000 J
Manganese	mg/kg	460	5	2	720†	2	820
Selenium	mg/kg	2	5	3[6]	1.3 UJ	4[6]	21 J

§ Background values are from sample OK015-SD-001 (Peak Creek upstream of Ore Knob Branch).
† Background values for copper, zinc, iron, and manganese exceed sediment screening criterion for metals.
* EPA Region 3 Freshwater Sediment Screening Benchmarks were used for metals that did not have ecological screening values from EPA Region 4.
1. All antimony results were non-detect or rejected; one sample was not detected at a level exceeding background.
2. Background results for mercury were not detected at a level exceeding the screening value; one sample was detected at a level lower than the background non-detect.
3. Background result for silver was rejected; two samples had detections less than the screening value.
4. 4 of 5 results for sodium were not detected at levels exceeding background; one sample exceeded background with a J qualifier.
5. 4 of 5 results for thallium were non-detect; one sample was not detected at a level exceeding the background; one sample exceeded background without qualifiers.
6. 1 of 5 results for selenium was not detected at a level exceeding the screening benchmark; one sample was not detected at a level exceeding background.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate; R - the data are rejected and considered unusable.

Table 5-15. Comparison of Little Peak Creek Surface Water Samples to Chronic Surface Water Criteria

Criteria from the North Carolina Division of Water Quality (2007)		Outstanding Resource Water Quality Criterion	Trout Water Quality Criterion	Little Peak Creek (OK021, OK022, OK023, and OK024) Total Samples	No. WQ	Background Value§	No. Background	Maximum Value§§
Metals								
Aluminum	ug/L	87 (T)		4	4	913†	2	3,590
Arsenic	ug/L	50 (T)		4	0	1.5 U	0	1.5 U
Barium	ug/L			4		20.6 J	3	34
Beryllium	ug/L	6.5 (T)		4	0	0.1 U	3	1.2
Cadmium	ug/L	2 (T)	0.4 (T)	4	0, 1	0.1 U	2	0.91 J
Calcium	ug/L			4		2,210	3	33,700
Chromium	ug/L	50 (T)		4		1.9 B	0	1.9 B
Cobalt	ug/L			4		0.52 J	3	77.5 J
Copper	ug/L	7 (T, AL)		4	3	1.7 J	3	81.3 J
Iron	ug/L	1,000 (T, AL)		4	1	946 E	2	4,890
Lead	ug/L	25 (T)		4	0	0.59 J	1	0.6 B
Magnesium	ug/L			4		799	3	7,560
Mercury	ug/L	0.012 (T)		4	0[1]	0.03 U	0[1]	0.03 U
Molybdenum	ug/L			4	0	0.1 U	0	5 U
Nickel	ug/L	88 (T)		4	0	0.79 J	3	14 J
Potassium	ug/L			4		1,210	3	3,910
Selenium	ug/L	5 (T)		4	0	1.5 U	0	1.5 U
Silver	ug/L	0.06 (T, AL)		4	0[1]	0.2 U	0[1]	0.2 U
Sodium	ug/L			4		1,950	3	4,570
Vanadium	ug/L			4	0	3 U	0	3 U
Zinc	ug/L	50 (T, AL)		4	2	4.5 J	3	139 J
Other Parameters								
pH	s.u.	6.0-9.0		4	2	6.19	2	3.08
Dissolved Oxygen	mg/L	£5.0	£6.0	4	0	7.4	2	6.4
Chloride	mg/L	230		4	0	2.1	3	13.7
Total Suspended Solids	mg/L	20	10	4	0	5	0	5

*EPA National Recommended Water Quality Criteria (2006)**		Water Quality Criterion	Total Samples	No. WQ	Background Value§	No. Background	Maximum Value§§
Additional Metals							
Antimony	ug/L	640 (D)	4	0	0.5 U	0	0.5 U
Manganese	ug/L	100 (D)	4	3	16.1 J	3	3,650 J
Thallium	ug/L	0.47 (D)	4	0	0.3 U	0	0.3 U

§ Background values are from sample OK022-SW-001 (Low Gap branch of Little Peak Creek); values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.
§§ Maximum values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.
† Background values for aluminum exceed water quality criterion for total metals; dissolved aluminum value is 50 U.
* EPA National Recommended Water Quality Criteria (2006) were used for metals that did not have criterion from the North Carolina Division of Water Quality.
1. Sample results for mercury and silver were not detected at reporting levels exceeding the criterion.
T - criterion for total metals; D - criterion for dissolved metals; AL - action level set by North Carolina Division of Water Quality.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate; B - either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL; E - difference of sample and sample duplicate is >10%; N - matrix spike sample recovery is no
Maximum value for pH is greatest deviation from acceptable range; maximum value for Dissolved Oxygen is lowest reported value.
Chronic criteria for cadmium, copper, iron, lead, nickel, silver, and zinc are computed at hardness of 50 mg/L.

Table 5-16. Surface Water Organic Analyses Where Reporting Limits are Above Chronic Surface Water Criteria

EPA National Recommended Water Quality Criteria (2006)		Water Quality Criterion	Reported Analytical Value	Total Samples	
				Little Peak Creek	South Fork New River
Polychlorinated Biphenyl Compounds					
Sum of Aroclors	ug/L	0.000064	1 U[1]	2	none
Semivolatile Organic Compounds					
1,2,4,5-Tetrachlorobenzene	ug/L	1.1	5 U	5	10
2,4,6-Trichlorophenol	ug/L	2.4	5 U	5	10
3,3'-Dichlorobenzidine	ug/L	0.028	5 U	5	10
Benzo(a)Anthracene	ug/L	0.018	5 U	5	10
Benzo(b)Fluoranthene	ug/L	0.018	5 U	5	10
Benzo(k)Fluoranthene	ug/L	0.018	5 U	5	10
Benzo-a-Pyrene	ug/L	0.018	5 U	5	10
bis(2-Chloroethyl) Ether	ug/L	0.53	5 U	5	10
bis(2-Ethylhexyl) Phthalate	ug/L	2.2	5 U	5	10
Chrysene	ug/L	0.018	5 U	5	10
Dibenzo(a,h)Anthracene	ug/L	0.018	5 U	5	10
Hexachlorobenzene (HCB)	ug/L	0.00029	5 U	5	10
Hexachloroethane	ug/L	3.3	5 U	5	10
Indeno (1,2,3-cd) Pyrene	ug/L	0.018	5 U	5	10
n-Nitroso di-n-Propylamine	ug/L	0.51	5 U	5	10
Pentachlorophenol	ug/L	3.0	10 U	5	10
Volatile Organic Compounds					
1,1,2,2-Tetrachloroethane	ug/L	4.0	5 U	2	none
Carbon tetrachloride	ug/L	1.6	5 U	2	none
Vinyl Chloride	ug/L	2.4	5 U	2	none

1. Analytical value for each PCB aroclor is 1 U, exceeding the reporting limit for the sum of the aroclors.
U - analyte not detected, value shown is the quantitation limit.
There were no detections for PCB, SVOC, or VOC in any surface water samples collected from Little Peak Creek or South Fork New River; samples from Ore Knob Branch and Peak Creek were not analyzed for PCB, SVOC, or VOC.

Table 5-17. Comparison of Little Peak Creek Sediment Samples to Screening Values

EPA Region 4 Waste Management Division Sediment Screening Values		Conservative Ecological Screening Values	Little Peak Creek (OK021, OK022, OK023, OK024, and OK025) Total Samples	No. Screening	Background Value§	No. Background	Maximum Value
Metals							
Aluminum	mg/kg		5		3,800	3	11,000
Antimony	mg/kg	12	5	0	6.8 UJ	0[1]	9.4 UJ
Arsenic	mg/kg	7.24	5	0	0.43 UJ	0[1]	1.1 UJ
Barium	mg/kg		5		20 J	4	59 J
Beryllium	mg/kg		5		0.49 UJ	0[2]	0.72 U
Cadmium	mg/kg	1	5	0	0.57 U	0[1]	0.78 U
Calcium	mg/kg		5		170 J	4	410 J
Chromium	mg/kg	52.3	5	0	22	1	46
Copper	mg/kg	18.7	5	4	5.7 J	4	600 J
Lead	mg/kg	30.2	5	0	3.1 J	4	6.3 J
Magnesium	mg/kg		5		750 J	4	2,100 J
Mercury	mg/kg	0.13	5	0[3]	0.1 U	0[3]	0.15 U
Nickel	mg/kg	15.9	5	0	3.6 UJ	2	7.6 J
Potassium	mg/kg		5		600 J	4	1,700 J
Silver	mg/kg	2	5	0	1.1 U	0[2]	1.2 U
Sodium	mg/kg		5		41 UJ	0[4]	780 U
Thallium	mg/kg		5		2.8 UJ	0[4]	3.9 UJ
Vanadium	mg/kg		5		13	4	37
Zinc	mg/kg	124	5	0	18 J	4	72 J

*EPA Region 3 Freshwater Sediment Screening Benchmarks**		Freshwater Sediment Screening Benchmarks	Total Samples	No. Screening	Background Value§	No. Background	Maximum Value
Cobalt	mg/kg	50	5	0	2.8 J	3[5]	21
Iron	mg/kg	20,000	5	4	12,000 J	4	130,000 J
Manganese	mg/kg	460	5	1	120	4	470
Selenium	mg/kg	2	5	0[6]	4 U[7]	0[6]	5 U

§ Background values are from sample OK022-SD-001 (Low Gap Branch of Little Peak Creek).
* EPA Region 3 Freshwater Sediment Screening Benchmarks were used for metals that did not have ecological screening values from EPA Region 4.
1. All results for antimony, arsenic, and cadmium were not detected at levels exceeding the background.
2. All beryllium and silver values were non-detect or rejected; one sample was not detected at a level exceeding background.
3. All mercury values were non-detect; two samples were not detected at levels exceeding screening criteria and background.
4. All sodium and thallium values were non-detect; four samples were not detected at levels exceeding background for both analytes.
5. 1 of 5 results for cobalt was not detected at a level exceeding background.
6. All selenium values were non-detect; three samples were not detected at levels exceeding the screening benchmark, one sample was not detected at a level exceeding background.
7. Background value for selenium was not detected at a level exceeding the screening benchmark.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate.

Table 5-18. Comparison of Peak Creek Surface Water Samples to Chronic Surface Water Criteria

Criteria from the North Carolina Division of Water Quality (2007)		Outstanding Resource Water Quality Criterion	Trout Water Quality Criterion	Peak Creek (OK015, OK016, OK017, and OK018) Total Samples	No. WQ	Background Value§	No. Background	Maximum Value§§
Metals								
Aluminum	ug/L	87 (T)		8	8	258†	6	633
Arsenic	ug/L	50 (T)		8	0	1.5 U	0	1.5 U
Barium	ug/L			8		15 J	4	21.6
Beryllium	ug/L	6.5 (T)		8	0	0.1 U	0	0.1 U
Cadmium	ug/L	2 (T)	0.4 (T)	8	0	0.1 U	5	0.15 B
Calcium	ug/L			8		2,540	7	9,270
Chromium	ug/L	50 (T)		8	0	3 B	0	2.2 B
Cobalt	ug/L			8		0.23 J	7	8.5 J
Copper	ug/L	7 (T, AL)		8	6	1.6 J	7	23.4 J
Iron	ug/L	1,000 (T, AL)		8	6	315 E	7	12,900 E
Lead	ug/L	25 (T)		8	0	0.5 U	0	0.5 U
Magnesium	ug/L			8		1,070	7	2,310
Mercury	ug/L	0.012 (T)		8	0[1]	0.03 U	0[1]	0.03 U
Molybdenum	ug/L			8	0	0.1 U	0	0.1 U
Nickel	ug/L	88 (T)		8	0	0.67 J	6	2.3 J
Potassium	ug/L			8		1,050	6	1,770
Selenium	ug/L	5 (T)		8	0	1.5 U	0	1.5 U
Silver	ug/L	0.06 (T, AL)		8	0[1]	0.2 U	0[1]	0.2 U
Sodium	ug/L			8		2,420	3	2,690
Vanadium	ug/L			8		3 U	0	3 U
Zinc	ug/L	50 (T, AL)		8	3	2.9 J	7	182 J
Other Parameters								
pH	s.u.	6.0-9.0		8	7	7.14	7	3.69
Dissolved Oxygen	mg/L	£5.0	£6.0	8	0	7.9	0	8.2
Chloride	mg/L	230		8	0	2.7	1	2.7
Total Suspended Solids	mg/L	20	10	8	1, 2	2.1 J	7	29.8

*EPA National Recommended Water Quality Criteria (2006)**		Water Quality Criterion	Total Samples	No. WQ	Background Value§	No. Background	Maximum Value§§
Additional Metals							
Antimony	ug/L	640 (D)	8	0	0.5 U	0	0.5 U
Manganese	ug/L	100 (D)	8	6	12.6 J	7	226 J
Thallium	ug/L	0.47 (D)	8	0	0.3 U	0	0.3 U

§ Background values are from sample OK015-SW-001 (Peak Creek upstream of Ore Knob Branch); values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.
§§ Maximum values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.
† Background values for aluminum exceed water quality criterion for total metals; dissolved aluminum value is 33.4 J.
* EPA National Recommended Water Quality Criteria (2006) were used for metals that did not have criterion from the North Carolina Division of Water Quality.
1. Sample results for mercury and silver were not detected at reporting levels exceeding the criterion.
T - criterion for total metals; D - criterion for dissolved metals; AL - action level set by North Carolina Division of Water Quality.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate; B - either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL; E - difference of sample and sample duplicate is >10%; N - matrix spike sample recovery is n
Maximum value for pH is greatest deviation from acceptable range; maximum value for Dissolved Oxygen is lowest reported value.
Chronic criteria for cadmium, copper, iron, lead, nickel, silver, and zinc are computed at hardness of 50 mg/L.

Table 5-19. Comparison of Peak Creek Sediment Samples to Screening Values

EPA Region 4 Waste Management Division Sediment Screening Values		Conservative Ecological Screening Values	Peak Creek (OK015, OK016, OK017, and OK018) Total Samples	No. Screening	Background Value§	No. Background	Maximum Value
Metals							
Aluminum	mg/kg		8		23,000	0	12,000 J
Antimony	mg/kg	12	8	0[1]	0.63 UJ	0[1]	12 UJ
Arsenic	mg/kg	7.24	8	2	3.3 J	3	67 J
Barium	mg/kg		8		260	0	220
Beryllium	mg/kg		8		0.94 U	1	0.27 J
Cadmium	mg/kg	1	8	1[2]	0.94 U	1[2]	15
Calcium	mg/kg		8		4,700 J	1	10,000 J
Chromium	mg/kg	52.3	8	2	47	2	390
Copper	mg/kg	18.7	8	8	500 J†	3	99,000 J
Lead	mg/kg	30.2	8	3	28 J	3	370 J
Magnesium	mg/kg		8		13,000 J	0	4,400 J
Mercury	mg/kg	0.13	8	1[3]	0.2 U	1[3]	1.2
Nickel	mg/kg	15.9	8	3	13 J	3	350 J
Potassium	mg/kg		8		17,000 J	0	14,000 J
Silver	mg/kg	2	8	2	R		23
Sodium	mg/kg		8		33 UJ	2[4]	1,200 J
Thallium	mg/kg		8		4.7 UJ	0[5]	13 UJ
Vanadium	mg/kg		8		66	1	88
Zinc	mg/kg	124	8	3	170 J†	3	6,900 J

*EPA Region 3 Freshwater Sediment Screening Benchmarks**		Freshwater Sediment Screening Benchmarks	Total Samples	No. Screening	Background Value§	No. Background	Maximum Value
Cobalt	mg/kg	50	8	2	11	4	500
Iron	mg/kg	20,000	8	8	69,000 J†	3	940,000 J
Manganese	mg/kg	460	8	4	720†	1	770
Selenium	mg/kg	2	8	3[6]	1.3 UJ	3	260

§ Background values are from sample OK015-SD-001 (Peak Creek upstream of Ore Knob Branch).
† Background values for copper, zinc, iron, and manganese exceed sediment screening criterion for metals.
* EPA Region 3 Freshwater Sediment Screening Benchmarks were used for metals that did not have ecological screening values from EPA Region 4.
1. All values for antimony are non-detect or rejected; three samples were not detected at levels above screening value and background.
2. 7 of 8 results for cadmium were non-detect, one sample was not detected at a level above screening value and background; one sample exceeded screening value and background without a qualifier (OK016-SD-003).
3. 7 of 8 results for mercury were non-detect, three samples were not detected at levels above screening value, one sample was not detected at a level above background; one sample exceeded screening value and background without a qualifier (OK017-SD-001).
4. 6 of 8 results for sodium were non-detect, five samples were not detected at levels above background; two samples exceeded background with J qualifiers.
5. All results for thallium were non-detect, two samples were not detected at levels above background.
6. 3 of 8 results for selenium exceeded the screening benchmark (all on transect OK016), four sample results were rejected.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate.

Table 5-20. Comparison of South Fork New River Surface Water Samples to Chronic Surface Water Criteria

Criteria from the North Carolina Division of Water Quality (2007)		Outstanding Resource Water Quality Criterion	Trout Water Quality Criterion	South Fork New River (OK019, OK020, OK026, and OK027) Total Samples	No. WQ	Background Value[§]	No. Background	Maximum Value[§§]
Metals								
Aluminum	ug/L	87 (T)		10	10	315†	1	322
Arsenic	ug/L	50 (T)		10	0	1.5 U	0	1.5 U
Barium	ug/L			10		15.5	1	15.8
Beryllium	ug/L	6.5 (T)		10	0	0.1 U	0	0.1 U
Cadmium	ug/L	2 (T)	0.4 (T)	10	0	0.1 U	0	0.1 U
Calcium	ug/L			10		5,060	3	5,540
Chromium	ug/L	50 (T)		10	0	1 U	5	1.6 B
Cobalt	ug/L			10		0.35 J	6	1.3 J
Copper	ug/L	7 (T, AL)		10	0	1.7 J	4	3.8 J
Iron	ug/L	1,000 (T, AL)		10	0	553	1	734
Lead	ug/L	25 (T)		10	0	0.5 U	0	0.5 U
Magnesium	ug/L			10		2,230	0	2,120
Mercury	ug/L	0.012 (T)		10	0[1]	0.03 U	0[1]	0.03 U
Molybdenum	ug/L			10		0.15 B	1	0.15 B
Nickel	ug/L	88 (T)		10	0	0.83 J	2	0.98 J
Potassium	ug/L			10		1,400	2	1,500
Selenium	ug/L	5 (T)		10	0	1.5 U	0	1.5 U
Silver	ug/L	0.06 (T, AL)		10	0[1]	0.2 U	0[1]	0.2 U
Sodium	ug/L			10		5,780	2	5,860 J
Vanadium	ug/L			10		3.8 B	0	3.3 B
Zinc	ug/L	50 (T, AL)		10	0	9.2 J	1	22.3 J
Other Parameters								
pH	s.u.	6.0-9.0		10	0	7.52	1	7.11
Dissolved Oxygen	mg/L	£5.0	£6.0	10	0	7.5	1	7.2
Chloride	mg/L	230		10	0	14.8 J	6	17.1 J
Total Suspended Solids	mg/L	20	10	10	0	3.7 J	1	5.5

*EPA National Recommended Water Quality Criteria (2006)**		Water Quality Criterion	Total Samples	No. WQ	Background Value[§]	No. Background	Maximum Value[§§]
Additional Metals							
Antimony	ug/L	640 (D)	10	0	0.5 U	0	5 U
Manganese	ug/L	100 (D)	10	0	29.3 J	4	54.8 J
Thallium	ug/L	0.47 (D)	10	0	0.3 U	0	0.3 U

§ Background values are from sample OK020-SW-001 (South Fork New River upstream of Peak Creek); values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.
§§ Maximum values are total concentrations for all metals except for antimony, manganese, and thallium, which are reported as dissolved concentrations.
† Background values for aluminum exceed water quality criterion for total metals; dissolved aluminum value is 50 U.
* EPA National Recommended Water Quality Criteria (2006) were used for metals that did not have criterion from the North Carolina Division of Water Quality.
1. Sample results for mercury and silver were not detected at reporting levels exceeding the criterion.
T - criterion for total metals; D - criterion for dissolved metals; AL - action level established by North Carolina Division of Water Quality.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate; B - either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL; E - difference of sample and sample duplicate is >10%; N - matrix spike sample recovery is no
Maximum value for pH is greatest deviation from acceptable range; maximum value for Dissolved Oxygen is lowest reported value.
Chronic criteria for cadmium, copper, iron, lead, nickel, silver, and zinc are computed at hardness of 50 mg/L.

Table 5-21. Comparison of South Fork New River Sediment Samples to Screening Values

EPA Region 4 Waste Management Division Sediment Screening Values		Conservative Ecological Screening Values	South Fork New River (OK019, OK020, OK026, and OK027)				
			Total Samples	No. Screening	Background Value§	No. Background	Maximum Value
Metals							
Aluminum	mg/kg		7		3,700	3	19,000
Antimony	mg/kg	12	7	0	UR	0	0.61 UJ
Arsenic	mg/kg	7.24	7	0	1.1 UJ	2[1]	1.9 J
Barium	mg/kg		7		28	3	150
Beryllium	mg/kg		7		0.29 UJ	1[2]	0.9
Cadmium	mg/kg	1	7	0	0.57 U	0[3]	0.69 U
Calcium	mg/kg		7		520 J	2	1,500 J
Chromium	mg/kg	52.3	7	0	16	3	32
Copper	mg/kg	18.7	7	3	9.8 J	4	570 J
Lead	mg/kg	30.2	7	0	1.6 J	5	16 J
Magnesium	mg/kg		7		850 J	3	4,800 J
Mercury	mg/kg	0.13	7	2	0.71†	0	0.29
Nickel	mg/kg	15.9	7	1	4.7 J	3	19 J
Potassium	mg/kg		7		580	3	6,500 J
Silver	mg/kg	2	7	0	0.074 UJ	1[4]	1.3 J
Sodium	mg/kg		7		49 UJ	1[5]	320 J
Thallium	mg/kg		7		2.9 UJ	0[6]	3.4 UJ
Vanadium	mg/kg		7		22	3	52
Zinc	mg/kg	124	7	0	20 J	3	81 J

*EPA Region 3 Freshwater Sediment Screening Benchmarks**		Freshwater Sediment Screening Benchmarks	Total Samples	No. Screening	Background Value§	No. Background	Maximum Value
Cobalt	mg/kg	50	7	0	4 J	2	16
Iron	mg/kg	20,000	7	3	10,000 J	3	130,000 J
Manganese	mg/kg	460	7	1	140 J	5	470 J
Selenium	mg/kg	2	7	1[7]	4 UJ	1[7]	11 J

§ Background values are from sample OK020-SD-001 (South Fork New River upstream of Peak Creek).
† Background value for mercury exceeds sediment screening criterion for metals.
* EPA Region 3 Freshwater Sediment Screening Benchmarks were used for metals that did not have ecological screening values from EPA Region 4.
1. 5 of 7 results for arsenic were non-detect, four samples were not detected at levels above background; two samples exceeded background with J qualifiers.
2. 6 of 7 results for beryllium were non-detect, one sample was not detected at a level above background; one sample exceeded background with no qualifiers.
3. All results for cadmium were non-detect, six samples were not detected at levels above background.
4. 6 of 7 results for silver were non-detect, five samples were not detected at levels above background; one sample exceeded
5. 6 of 7 results for sodium were non-detect, four samples were not detected at levels above background; one sample exceeded background with a J qualifier.
6. All results for thallium were non-detect at levels exceeding background.
7. 5 of 7 results for selenium were non-detect, five samples were not detected at levels above screening benchmark, four samples were not detected at levels above background; two samples had detected results with J qualifiers, one exceeding screening benchmark and background.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate; R - the data are rejected and considered unusable.

Table 5-22. Flow Weighted Mass Loadings for Ore Knob Receiving Waters (Dissolved Metals, Acidity, Sulfate, TDS)

Stream	Sample	Stream Width (ft)	Cross-Sectional Area (sq ft)	Discharge (cfs)[1]	Dissolved Metals (lbs/day)[2,3]								Dissolved Metals Sum (lbs/day)	Total Acidity (lbs/day)[2]	Sulfate (lbs/day)[2]	TDS (lbs/day)[2]
					Al	Cd	Co	Cu	Fe	Pb	Mn	Zn				
Ore Knob Branch	OK013-SW-001	3.0	0.91	0.28	7.0	0.0	0.2	0.4	549.9	*0.0*	5.8	1.0	564	1299	2372	2694
	OK014-SW-001	3.5	1.01	0.39	12.3	0.0	0.2	0.4	300.0	*0.0*	5.3	1.2	319	1098	2369	2138
	Background (OK015-SW-001)			0.39	0.1	*0.0*	0.0	0.0	0.2	*0.0*	0.0	0.0	0.3	28.1	5.6	98.5
Little Peak Creek	OK021-SW-001	10.0	7.31	2.27	0.2	*0.0*	0.1	0.0	0.8	*0.0*	3.8	0.3	5.2	164	256	820
	OK024-SW-001	0.5	0.06	0.11	2.2	0.0	0.0	0.0	3.2	*0.0*	2.2	0.1	7.7	42.3	121	172
	Background (OK022-SW-001)			2.27	*0.6*	*0.0*	0.0	0.0	*1.2*	*0.0*	0.2	0.0	2.1	164	17.0	453
Peak Creek	OK015-SW-001	28.5	17.87	8.08	1.5	*0.0*	0.1	0.1	4.5	*0.0*	0.4	0.1	6.7	584	115	2048
	OK016-SW-001	32.5	14.95	4.38	11.9	0.0	0.3	0.6	195.3	*0.0*	5.5	1.5	215	1015	2360	2501
	OK016-SW-002		6.65	1.79	2.0	*0.0*	0.0	0.1	28.2	*0.0*	1.1	0.2	31.8	129	454	790
	OK016-SW-003		4.32	1.62	0.2	*0.0*	0.0	0.0	9.7	*0.0*	0.5	0.1	10.5	117	110	419
	OK017-SW-001	32.0	30.75	10.35	24.8	0.0	0.4	1.0	160.2	*0.0*	8.7	2.2	197	898	3101	4852
	OK018-SW-001	28.5	7.30	2.16	4.3	0.0	0.1	0.2	16.7	*0.0*	2.3	0.5	24.1	187	605	954
	OK018-SW-002		11.85	6.45	14.0	0.0	0.3	0.8	80.3	*0.0*	6.7	1.5	104	653	1563	2917
	OK018-SW-003		7.03	3.45	5.8	0.0	0.1	0.4	28.8	*0.0*	3.3	0.8	39.3	299	827	1301
	Background (OK015-SW-001)			9.39	1.7	*0.0*	0.1	0.1	5.2	*0.0*	0.5	0.1	7.7	678	134	2379
South Fork New River	OK019-SW-001	128.0	42.89	28.69	*7.7*	*0.0*	0.2	0.2	27.2	*0.1*	2.2	*0.3*	38.0	2072	8859	8658
	OK019-SW-002		42.00	40.39	12.4	*0.0*	0.8	0.3	43.3	*0.1*	3.5	*0.4*	60.9	2916	7030	18934
	OK019-SW-003		34.60	36.31	*9.8*	*0.0*	0.6	0.3	40.0	*0.1*	3.4	*0.4*	54.5	2622	6790	10175
	OK019-SW-004		43.20	37.53	11.5	*0.0*	0.8	0.4	54.5	*0.1*	6.2	0.8	74.2	2710	7949	12135
	OK019-SW-005		49.57	27.71	9.5	*0.0*	0.6	0.4	41.4	*0.1*	7.6	0.7	60.4	2001	4077	7318
	Background (OK020-SW-001)			158.58	*42.8*	*0.1*	3.2	0.8	162.5	*0.4*	16.9	*1.7*	228	11451	*4273*	47855

Summary by Stream	Discharge (cfs)	Dissolved Metals (lbs/day)[2,3]								Dissolved Metals Sum (lbs/day)	Total Acidity (lbs/day)[2]	Sulfate (lbs/day)[2]	TDS (lbs/day)[2]
		Al	Cd	Co	Cu	Fe	Pb	Mn	Zn				
Ore Knob Branch Discharge to Peak Creek	0.39	12.3	0.0	0.2	0.4	300.0	*0.0*	5.3	1.2	319	1098	2369	2138
Ore Knob Background	0.39	0.1	*0.0*	0.0	0.0	0.2	*0.0*	0.0	0.0	0.3	28.1	5.6	98.5
Little Peak Creek Discharge to Peak Creek	2.27	0.2	*0.0*	0.1	0.0	0.8	*0.0*	3.8	0.3	5.2	164	256	820
Little Peak Creek Background	2.27	*0.6* †	*0.0*	0.0	0.0	*1.2* †	*0.0*	0.2	0.0	2.1	164	17	453
Peak Creek Discharge to South Fork New River	12.05	24.2	0.0	0.5	1.4	125.8	*0.0*	12.2	2.9	167	1140	2995	5173
Peak Creek Background	9.39	1.7	*0.0*	0.1	0.1	5.2	*0.0*	0.5	0.1	7.7	678	134	2379
South Fork New River Downstream of Peak Creek	170.63	*51.0*	*0.1*	3.1	1.5	206.4	*0.5*	22.9	*2.6*	288	12322	34704	57221
South Fork New River Upstream of Peak Creek	158.58	*42.8*	*0.1*	3.2	0.8	162.5	*0.4*	16.9	*1.7*	228	11451	*4273*	47855

Comparison to Background by Stream	Dissolved Metals (lbs/day)[2,3]								Dissolved Metals Sum (lbs/day)	Total Acidity (lbs/day)[2]	Sulfate (lbs/day)[2]	TDS (lbs/day)[2]
	Al	Cd	Co	Cu	Fe	Pb	Mn	Zn				
Ore Knob Branch Discharge to Peak Creek (above background)	12.3	*0.0*	0.2	0.4	299.8	*0.0*	5.2	1.2	319	1070	2363	2040
Little Peak Creek Discharge to Peak Creek (above background)	*-0.4†*	*0.0*	0.0	0.0	*-0.5*†	*0.0*	3.6	0.2	3.0	0.0	239	367
Peak Creek Discharge to South Fork New River (above background)	22.5	*0.0*	0.3	1.4	120.6	*0.0*	11.8	2.8	159	461	2861	2794
South Fork New River Downstream of Peak Creek (above background)	*8.2*	*0.0*	-0.1	0.7	43.9	*0.0*	6.1	*0.9*	59.7	870	*30432*	9365

1. All discharge measurements, except weir installation at OK024, were conducted using acoustic doppler velocimeter (ADV®); note that discharge in Peak Creek upstream of Ore Knob Branch (OK015) exceeds discharge downstream of confluence (OK016) - attributed at least partly to reasonable measurement error for both stations.
2. Dissolved metals, total acidity, sulfate, and TDS lbs/day calculations are based on analytical results from the sample indicated and include estimated values as reported by the analytical laboratory.
3. Italicized values were calculated using non-detect results, where the reporting limit was used as the analytical value.
† Calculated values are based on using reporting limits as the analytical value (non-detect) that are greater than some analytical results not flagged (e.g. reporting limit for Al is 50 ug/L, used for sample OK022-SW-001; the non-flagged value reported for OK021-SW-001 was only 16.9 ug/L).

Table 5-23. Flow Weighted Mass Loadings for Ore Knob Receiving Waters (Total Metals)

Stream	Sample	Stream Width (ft)	Cross-Sectional Area (sq ft)	Discharge (cfs)[1]	Total Metals (lbs/day)[2,3]								Total Metals Sum (lbs/day)
					Al	Cd	Co	Cu	Fe	Pb	Mn	Zn	
Ore Knob Branch	OK013-SW-001	3.0	0.91	0.28	6.1	0.0	0.2	0.4	576.0	0.0	6.1	0.8	590
	OK014-SW-001	3.5	1.01	0.39	9.8	0.0	0.2	0.5	308.4	*0.0*	5.4	1.3	326
	Background (OK015-SW-001)			0.39	0.5	*0.0*	0.0	0.0	0.7	*0.0*	0.0	0.0	1.2
Little Peak Creek	OK021-SW-001	10.0	7.31	2.27	3.5	*0.0*	0.1	0.1	4.2	*0.0*	4.1	0.6	12.6
	OK024-SW-001	0.5	0.06	0.11	2.2	0.0	0.0	0.0	3.0	*0.0*	2.2	0.1	7.5
	Background (OK022-SW-001)			2.27	11.2	*0.0*	0.0	0.0	11.6	0.0	0.4	0.1	23.2
Peak Creek	OK015-SW-001	28.5	17.87	8.08	11.2	*0.0*	0.0	0.1	13.7	*0.0*	0.5	0.1	25.8
	OK016-SW-001	32.5	14.95	4.38	15.0	0.0	0.2	0.5	304.7	*0.0*	5.3	2.4	328
	OK016-SW-002		6.65	1.79	4.2	*0.0*	0.0	0.1	68.1	*0.0*	1.2	0.3	74.1
	OK016-SW-003		4.32	1.62	2.0	*0.0*	0.0	0.0	8.1	*0.0*	0.2	0.0	10.4
	OK017-SW-001	32.0	30.75	10.35	30.4	0.0	0.4	1.2	247.8	*0.0*	9.0	10.2	299
	OK018-SW-001	28.5	7.30	2.16	6.2	0.0	0.1	0.3	35.8	*0.0*	2.5	0.9	45.6
	OK018-SW-002		11.85	6.45	17.5	0.0	0.2	0.8	105.3	*0.0*	6.2	1.6	132
	OK018-SW-003		7.03	3.45	10.7	0.0	0.1	0.4	62.7	*0.0*	3.5	0.9	78.3
	Background (OK015-SW-001)			9.39	13.1	*0.0*	0.0	0.1	16.0	*0.0*	0.6	0.1	29.9
South Fork New River	OK019-SW-001	128.0	42.89	28.69	39.8	*0.0*	0.0	0.2	77.4	*0.1*	3.2	3.5	124
	OK019-SW-002		42.00	40.39	64.9	*0.0*	0.1	0.3	109.4	*0.1*	4.8	0.6	180
	OK019-SW-003		34.60	36.31	48.0	*0.0*	0.1	0.3	98.5	*0.1*	4.8	0.5	152
	OK019-SW-004		43.20	37.53	35.4	*0.0*	0.1	0.5	99.6	*0.1*	6.6	0.6	143
	OK019-SW-005		49.57	27.71	35.9	*0.0*	0.2	0.6	109.7	*0.1*	8.2	1.0	156
	Background (OK020-SW-001)			158.58	269.4	*0.1*	0.3	1.5	473.0	*0.4*	25.1	7.9	778

Summary by Stream	Discharge (cfs)	Total Metals (lbs/day)[2,3]								Total Metals Sum (lbs/day)
		Al	Cd	Co	Cu	Fe	Pb	Mn	Zn	
Ore Knob Branch Discharge to Peak Creek	0.39	9.8	0.0	0.2	0.5	308.4	*0.0*	5.4	1.3	326
Ore Knob Background	0.39	0.5	*0.0*	0.0	0.0	0.7	*0.0*	0.0	0.0	1.2
Little Peak Creek Discharge to Peak Creek	2.27	3.5	*0.0*	0.1	0.1	4.2	*0.0*	4.1	0.6	12.6
Little Peak Creek Background	2.27	11.2	*0.0*	0.0	0.0	11.6	0.0	0.4	0.1	23.2
Peak Creek Discharge to South Fork New River	12.05	34.4	0.0	0.5	1.5	203.8	*0.0*	12.1	3.4	256
Peak Creek Background	9.39	13.1	*0.0*	0.0	0.1	16.0	*0.0*	0.6	0.1	29.9
South Fork New River Downstream of Peak Creek	170.63	224.0	*0.1*	0.5	1.9	494.6	*0.5*	27.6	6.1	755
South Fork New River Upstream of Peak Creek	158.58	269.4	*0.1*	0.3	1.5	473.0	*0.4*	25.1	7.9	778

Comparison to Background by Stream	Total Metals (lbs/day)[2,3]								Total Metals Sum (lbs/day)
	Al	Cd	Co	Cu	Fe	Pb	Mn	Zn	
Ore Knob Branch Discharge to Peak Creek (above background)	9.2	*0.0*	0.2	0.5	307.8	*0.0*	5.4	1.3	324
Little Peak Creek Discharge to Peak Creek (above background)	-7.7	*0.0*	0.1	0.1	-7.4	*0.0*	3.8	0.5	-10.6
Peak Creek Discharge to South Fork New River (above background)	21.4	*0.0*	0.5	1.4	187.8	*0.0*	11.5	3.2	226
South Fork New River Downstream of Peak Creek (above background)	-45.5	*0.0*	0.2	0.5	21.6	*0.0*	2.5	-1.8	-22.4

1. All discharge measurements, except weir installation at OK024, were conducted using acoustic doppler velocimeter (ADV®); note that discharge in Peak Creek upstream of Ore Knob Branch (OK015) exceeds discharge downstream of confluence (OK016) - attributed at least partly to reasonable measurement error for both stations.
2. Total metals lbs/day calculations are based on analytical results from the sample indicated and include estimated values as reported by the analytical laboratory.
3. Italicized values were calculated using non-detect results, where the reporting limit was used as the analytical value.

Table 5-24. Summary of Flow Weighted Mass Loadings for Ore Knob Receiving Waters (Dissolved Metals, Acidity, Sulfate, TDS)

Water Body	Dissolved Metals (lbs/day)[1,2]								Dissolved Metals Sum (lbs/day)	Total Acidity (lbs/day)[1]	Sulfate (lbs/day)[1]	TDS (lbs/day)[1]
	Al	Cd	Co	Cu	Fe	Pb	Mn	Zn				
South Fork New River Upstream of Peak Creek	*42.8*	*0.1*	3.2	0.8	162.5	*0.4*	16.9	*1.7*	228	11451	4273	47855
Peak Creek Discharge to South Fork New River	24.2	0.0	0.5	1.4	125.8	*0.0*	12.2	2.9	167	1140	2995	5173
Little Peak Creek Discharge to Peak Creek	0.2	*0.0*	0.1	0.0	0.8	*0.0*	3.8	0.3	5.2	164	256	820
Ore Knob Branch Discharge to Peak Creek	12.3	0.0	0.2	0.4	300.0	*0.0*	5.3	1.2	319	1098	2369	2138

1. Dissolved metals, total acidity, sulfate, and TDS lbs/day calculations are based on analytical results and include estimated values as reported by the analytical laboratory.
2. Italicized values were calculated using non-detect results, where the reporting limit was used as the analytical value.

Table 5-25. Comparison of Residential Drinking Water Samples to Maximum Contaminant Levels

EPA National Primary Drinking Water Standards (2003)		MCL Drinking Water Quality Standards[§]	Residential Wells		
			Total Samples	No. MCL	Maximum Value
Metals					
Aluminum	ug/L	50-200*	7	0	179
Antimony	ug/L	6	7	0	0.5 U
Arsenic	ug/L	10[1]	7	0	1.5 U
Barium	ug/L	2,000	7	0	39.5
Beryllium	ug/L	4	7	0	0.54
Cadmium	ug/L	5	7	0	2.5
Calcium	ug/L		7		
Chromium	ug/L	100	7	0	6.1
Cobalt	ug/L		7		
Copper	ug/L	1,300 (AL)	7	0	41.8 J
Iron	ug/L	300*	7	3	14,800
Lead	ug/L	15 (AL)	7	0	9.9
Magnesium	ug/L		7		
Manganese	ug/L	50*	7	5	18,200 J
Mercury	ug/L	2	7	0	0.03 U
Molybdenum	ug/L		7		
Nickel	ug/L		7		
Potassium	ug/L		7		
Selenium	ug/L	50	7	0	1.5 U
Silver	ug/L	100	7	0	0.2 U
Sodium	ug/L		7		
Thallium	ug/L	2	7	0	0.41 B
Vanadium	ug/L		7		
Zinc	ug/L	5,000*	7	0	848 J
Other Parameters					
pH	s.u	6.5-8.5*	7	6	5.35
Chloride	mg/L	250*	7	0	5.9
Sulfate	mg/L	250*	7	2	478 J

§ Maximum Contaminant Levels (MCL) are from the EPA National Primary Drinking Water Standards (2003); MCLs refer to total concentrations.
* EPA National Secondary Drinking Water Standard; non-enforceable guidelines regulating contaminants that may cause cosmetic or aesthetic effects in drinking water (2003).
1. The standard for arsenic was updated 1/23/2006.
AL - action level listed in the EPA National Primary Drinking Water Standards.
U - analyte not detected, value shown is the quantitation limit; J - reported value is an estimate; B - either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL.
Maximum value for pH is greatest deviation from acceptable range.

FIGURES

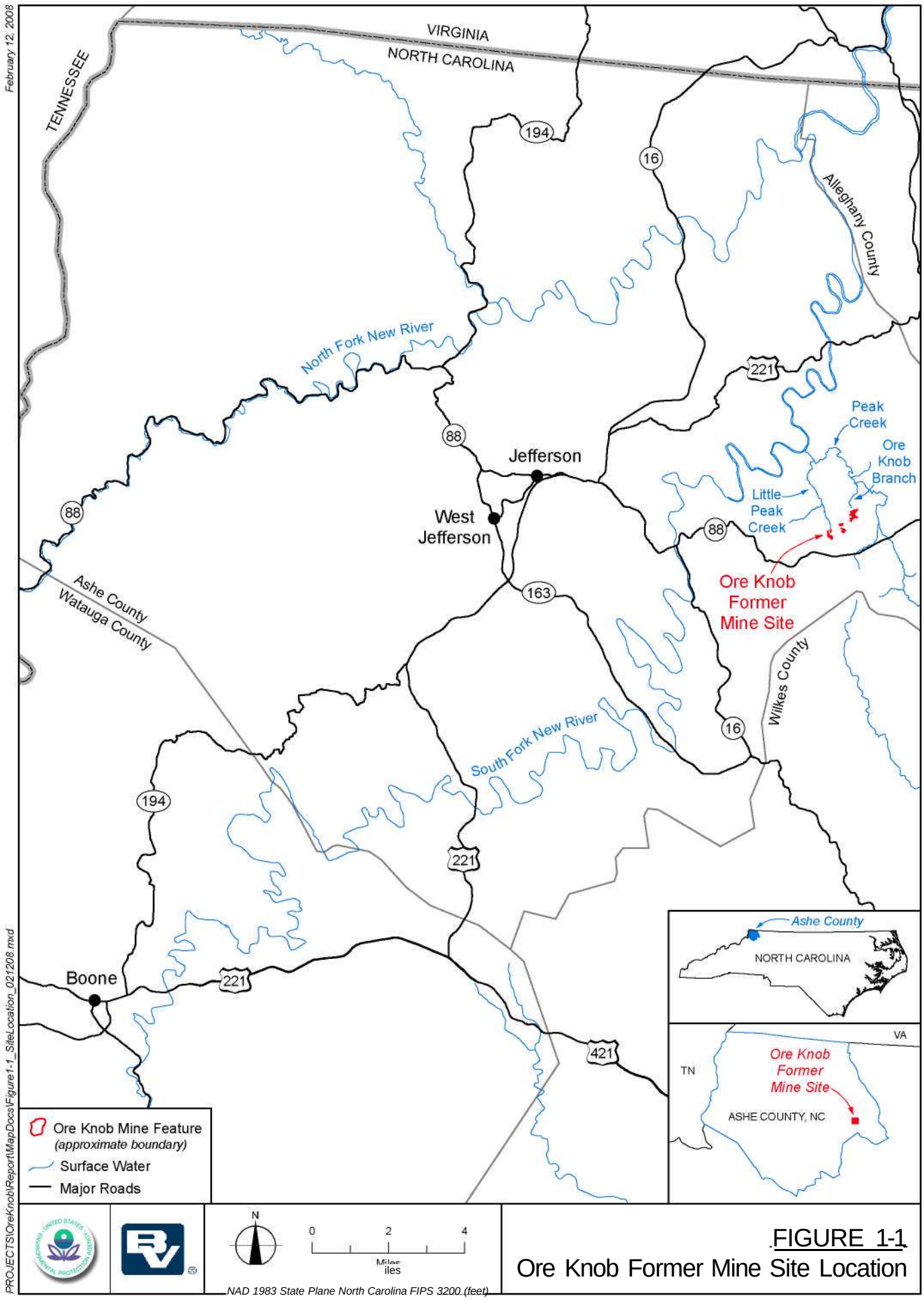


FIGURE 1-1
Ore Knob Former Mine Site Location

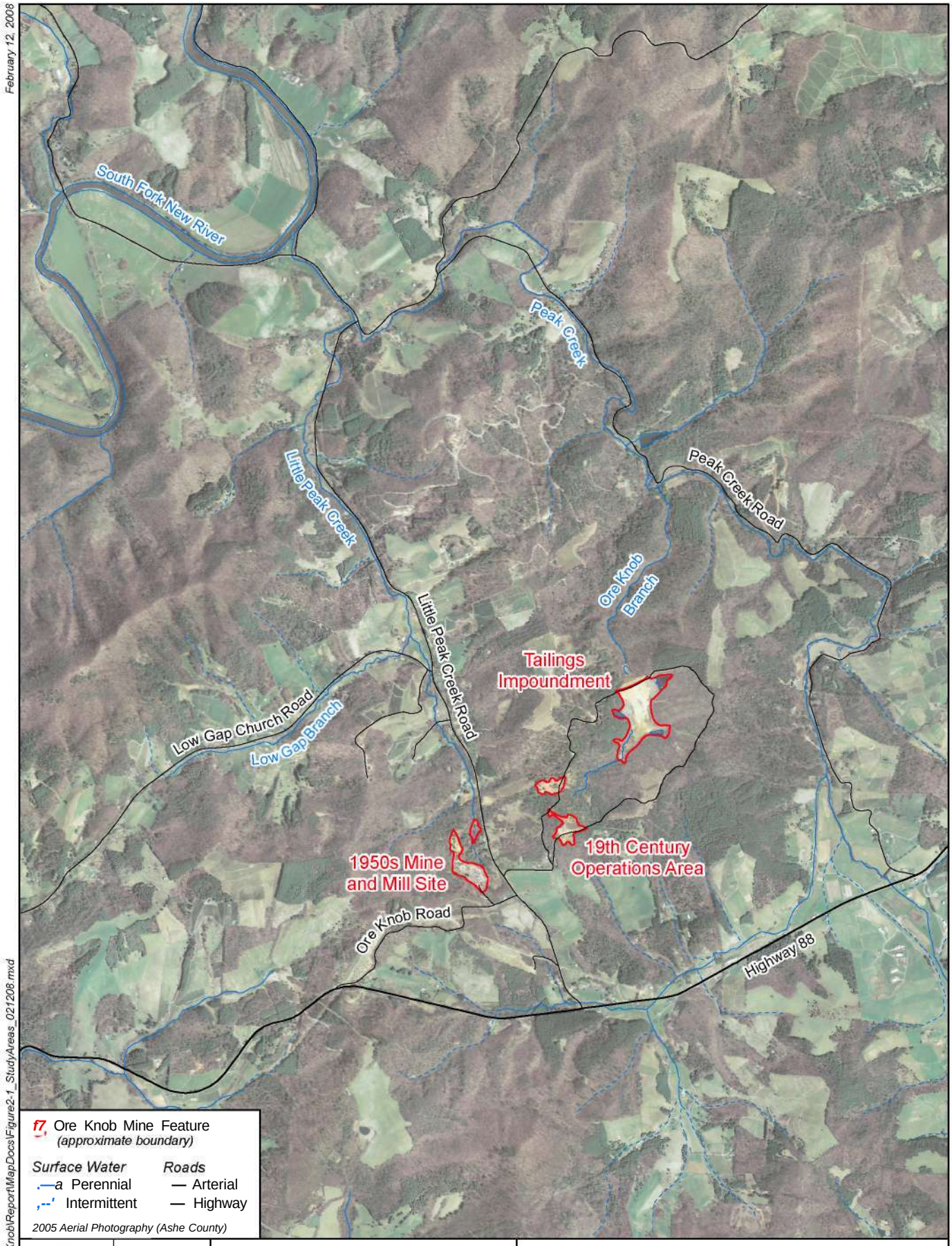


FIGURE 2-1

Ore Knob Former Mine Site Study Areas and Downstream Receiving Waters

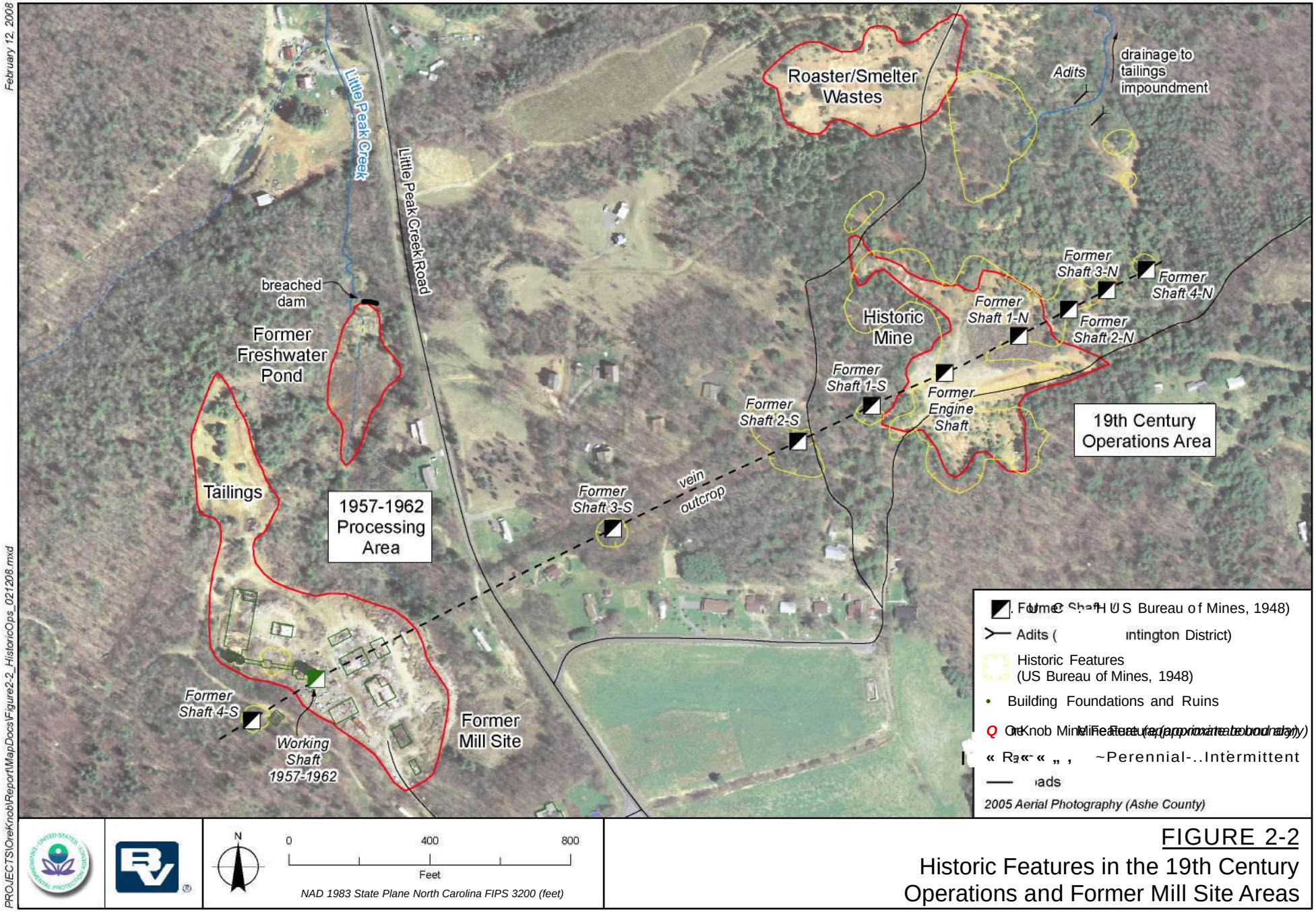
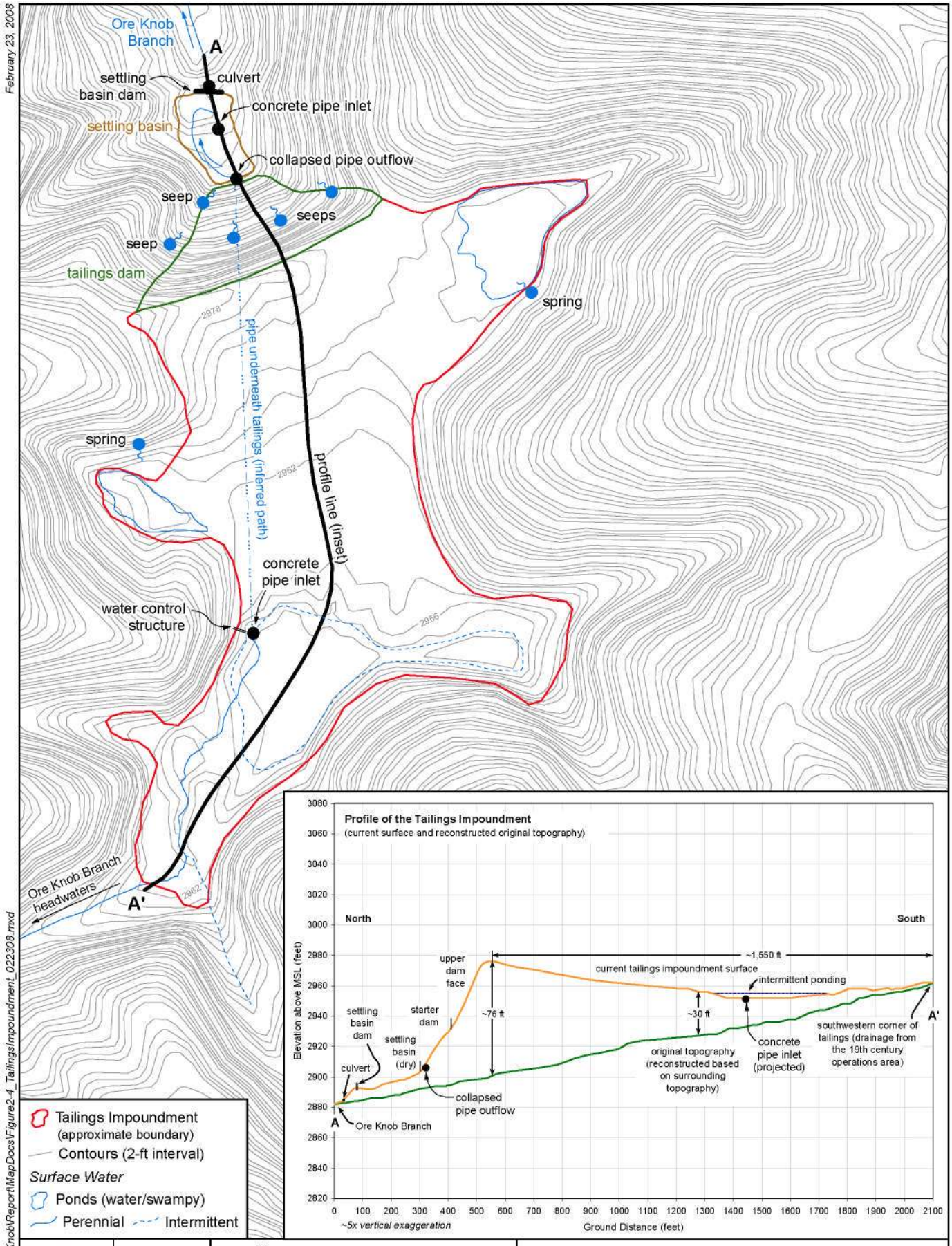


FIGURE 2-2

Historic Features in the 19th Century Operations and Former Mill Site Areas

FIGURE 2-3
Former Mill Site Current and Historic Structures



February 23, 2008

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FIGURE 2-4
Tailings Impoundment Features and Longitudinal Profile

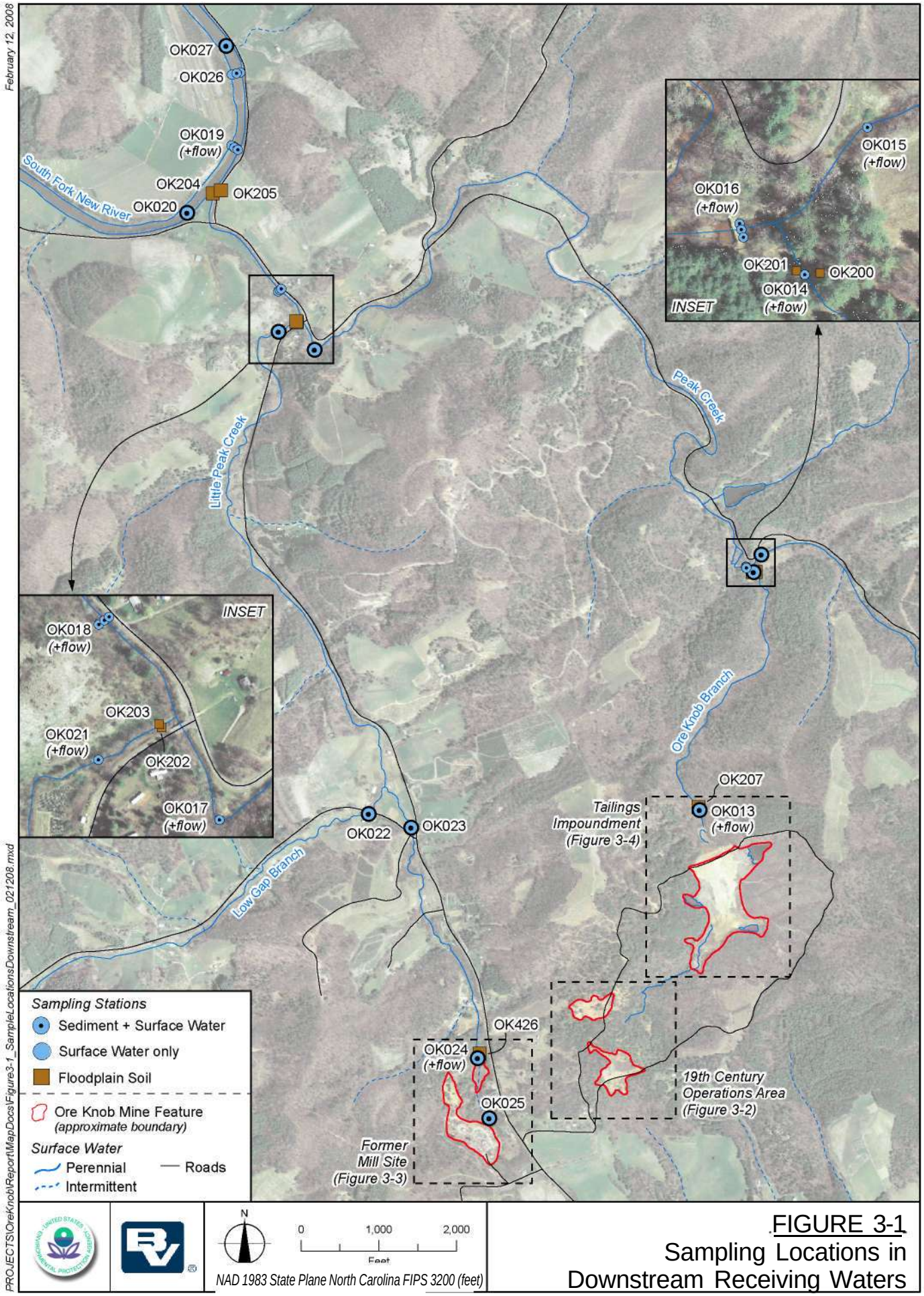

FIGURE 3-1
Sampling Locations in
Downstream Receiving Waters

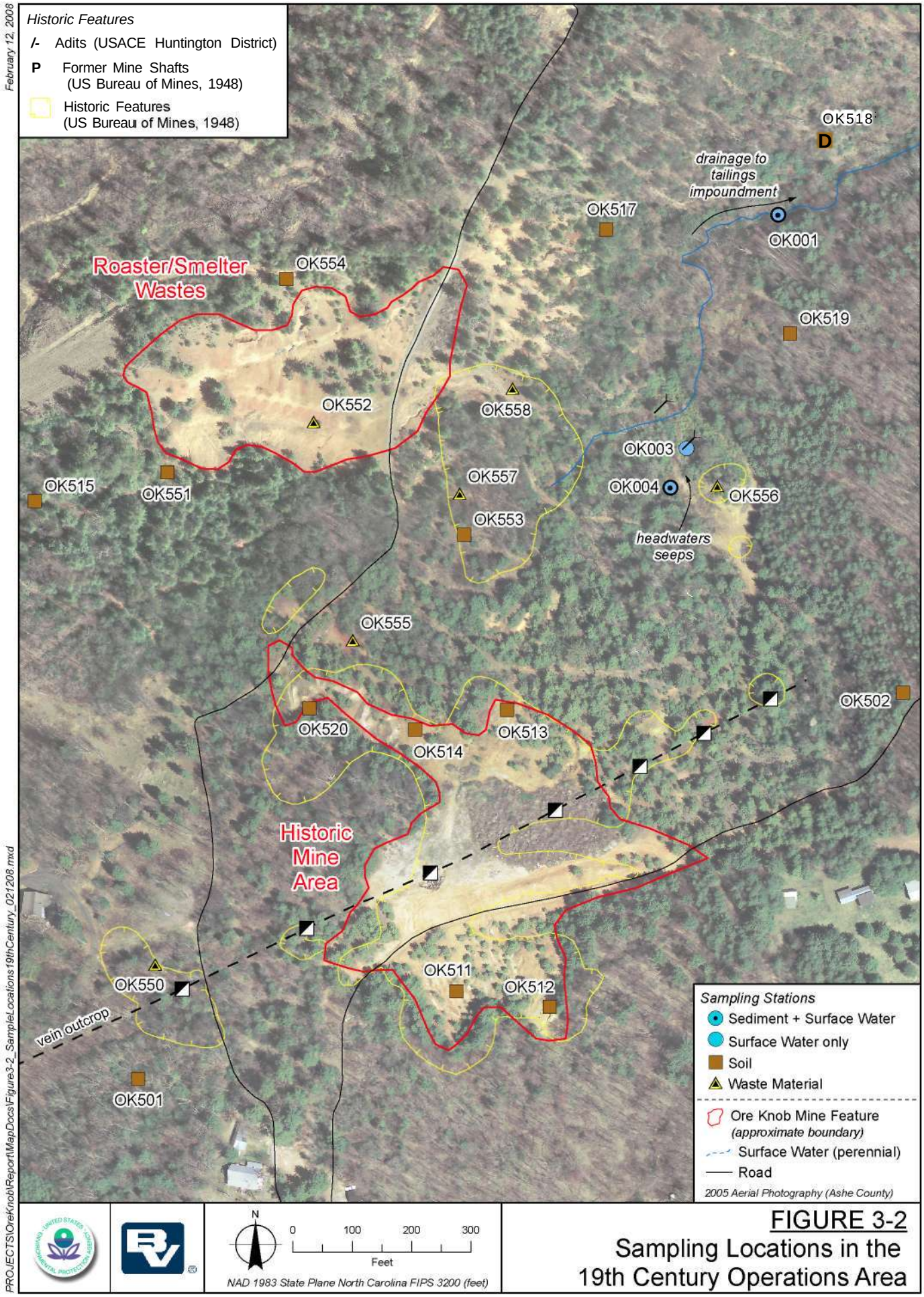

FIGURE 3-2
Sampling Locations in the 19th Century Operations Area

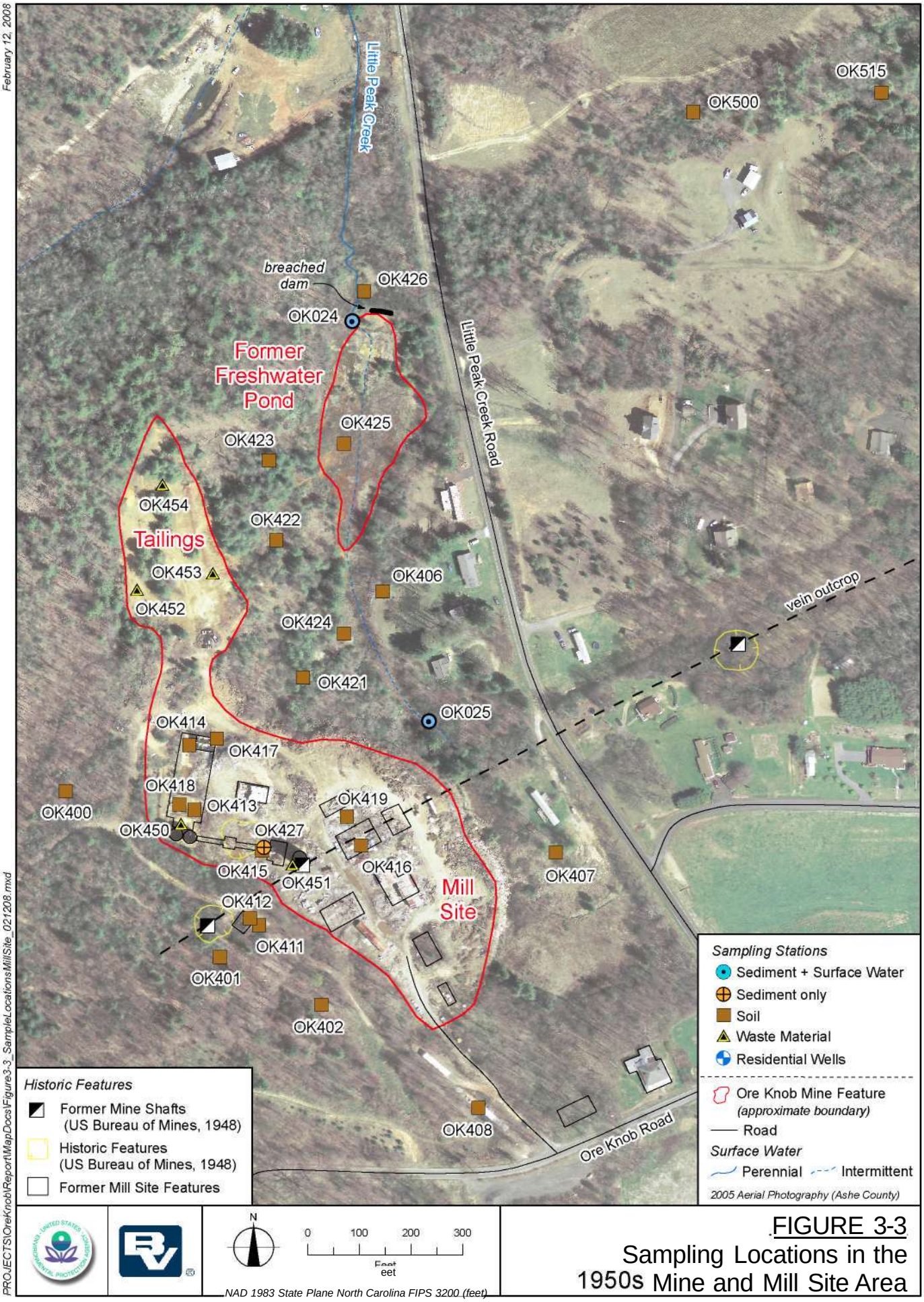

FIGURE 3-3
Sampling Locations in the 1950s Mine and Mill Site Area

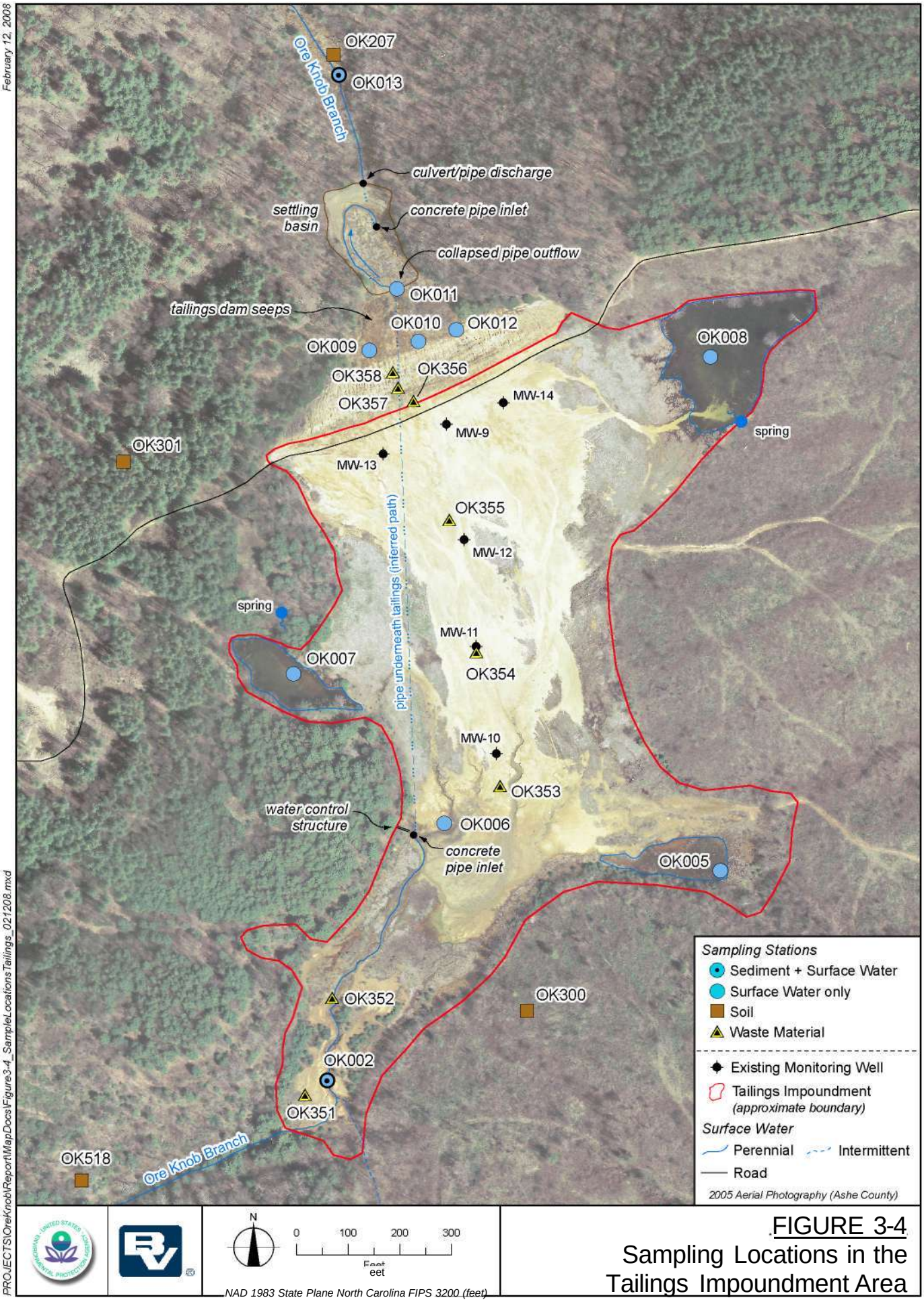

FIGURE 3-4
Sampling Locations in the Tailings Impoundment Area

February 12, 2008

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FIGURE 3-5
Residential Well Sampling Locations

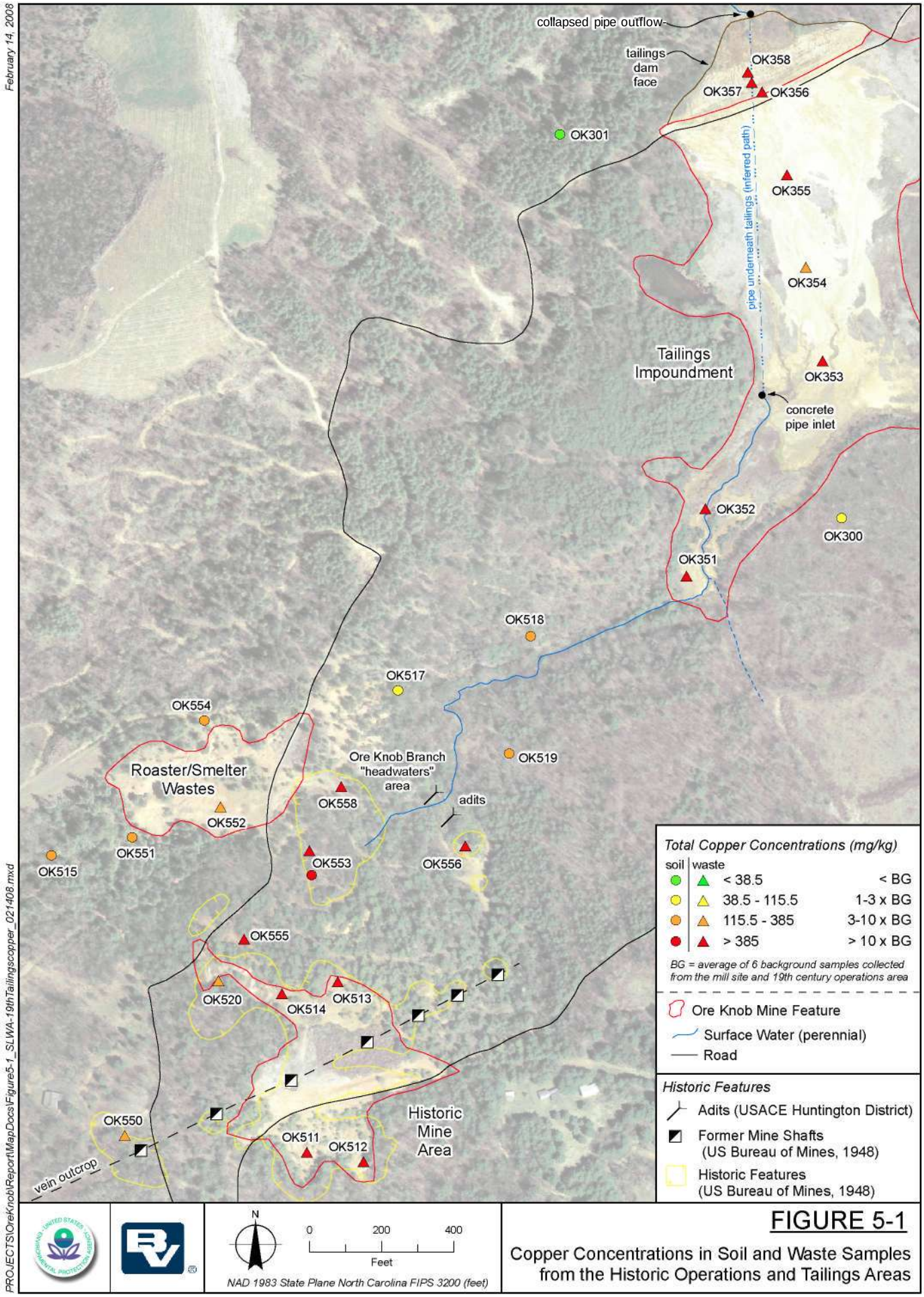
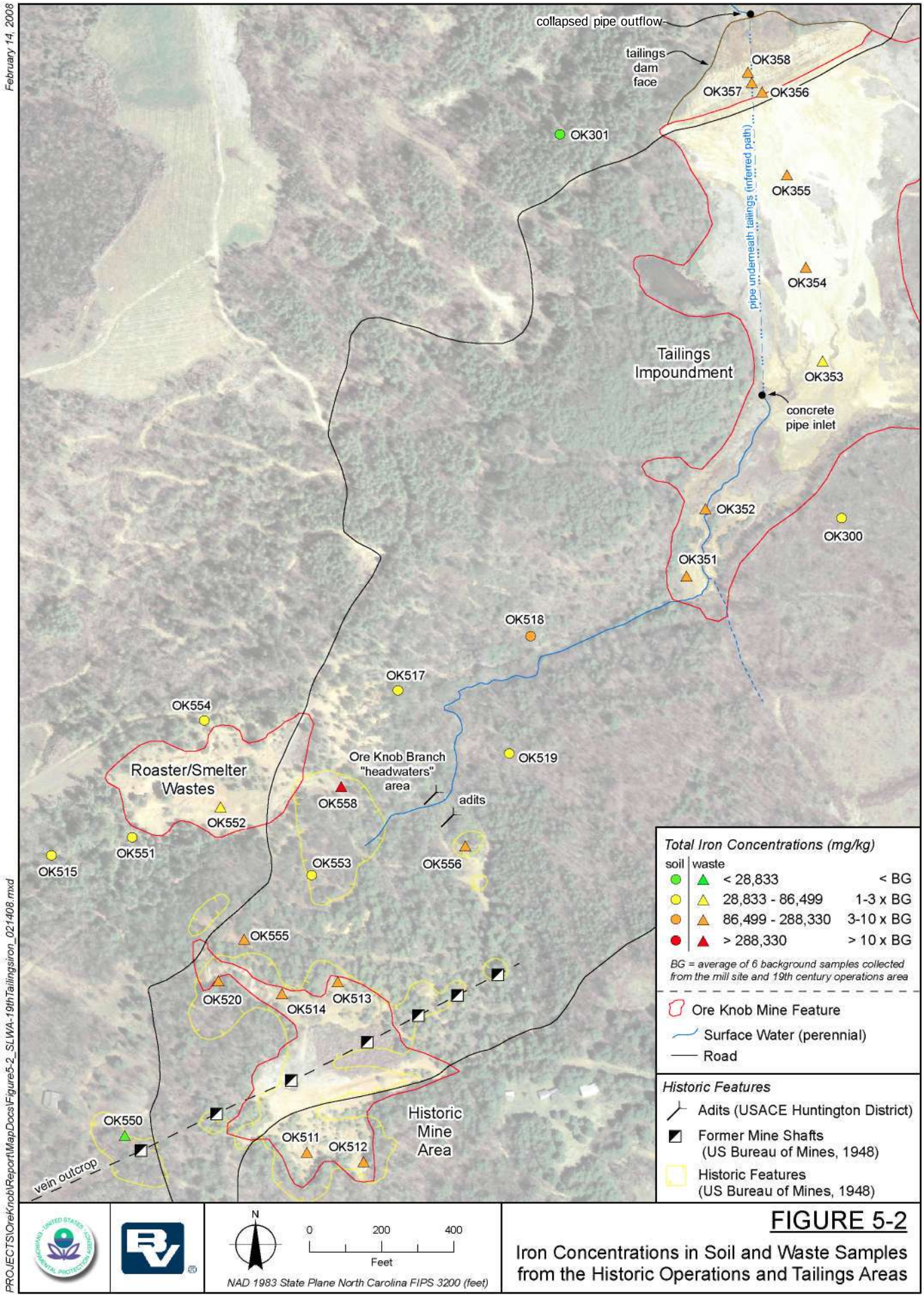


FIGURE 5-1

Copper Concentrations in Soil and Waste Samples from the Historic Operations and Tailings Areas



February 14, 2008

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FIGURE 5-2

Iron Concentrations in Soil and Waste Samples from the Historic Operations and Tailings Areas

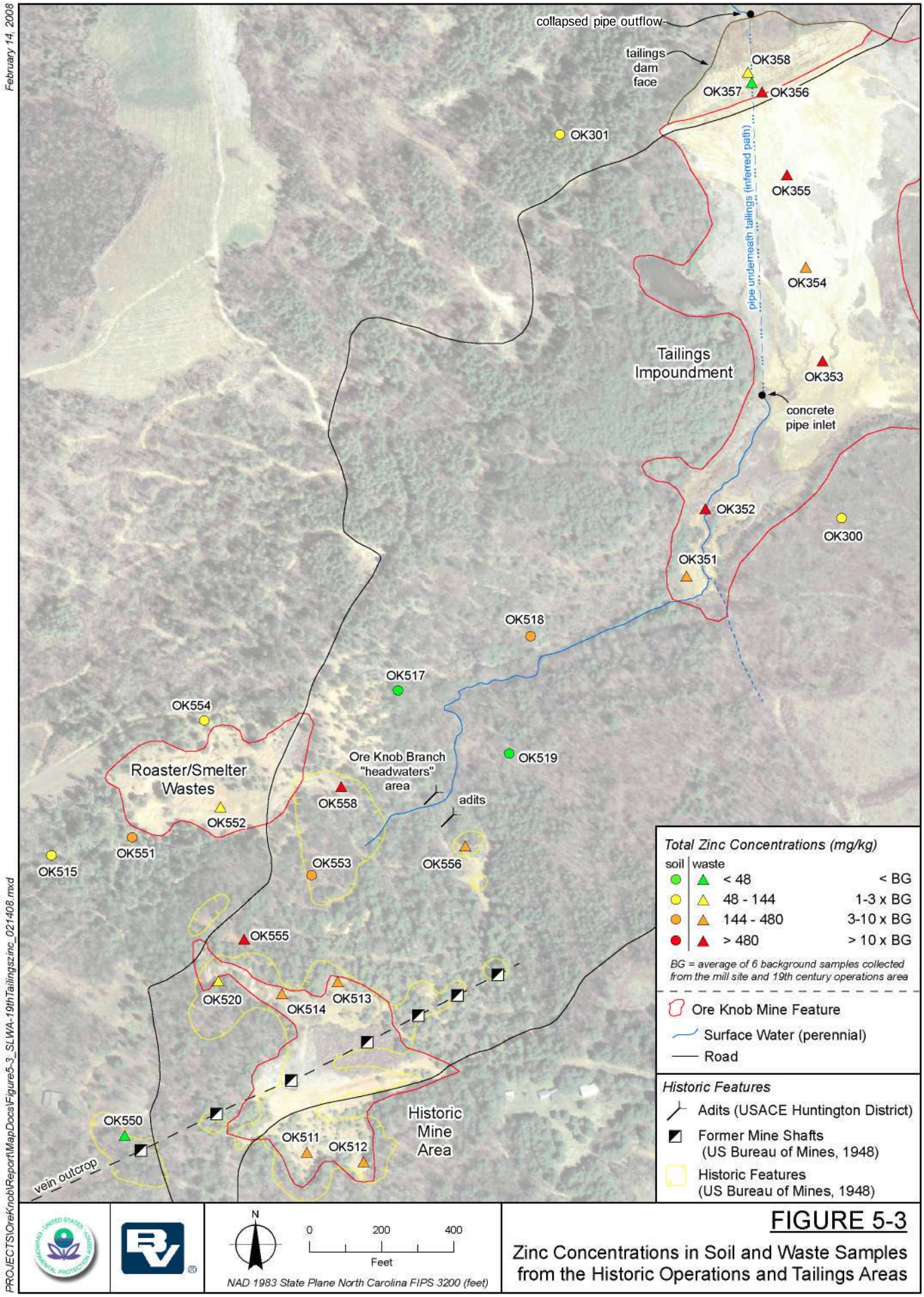


FIGURE 5-3

Zinc Concentrations in Soil and Waste Samples from the Historic Operations and Tailings Areas

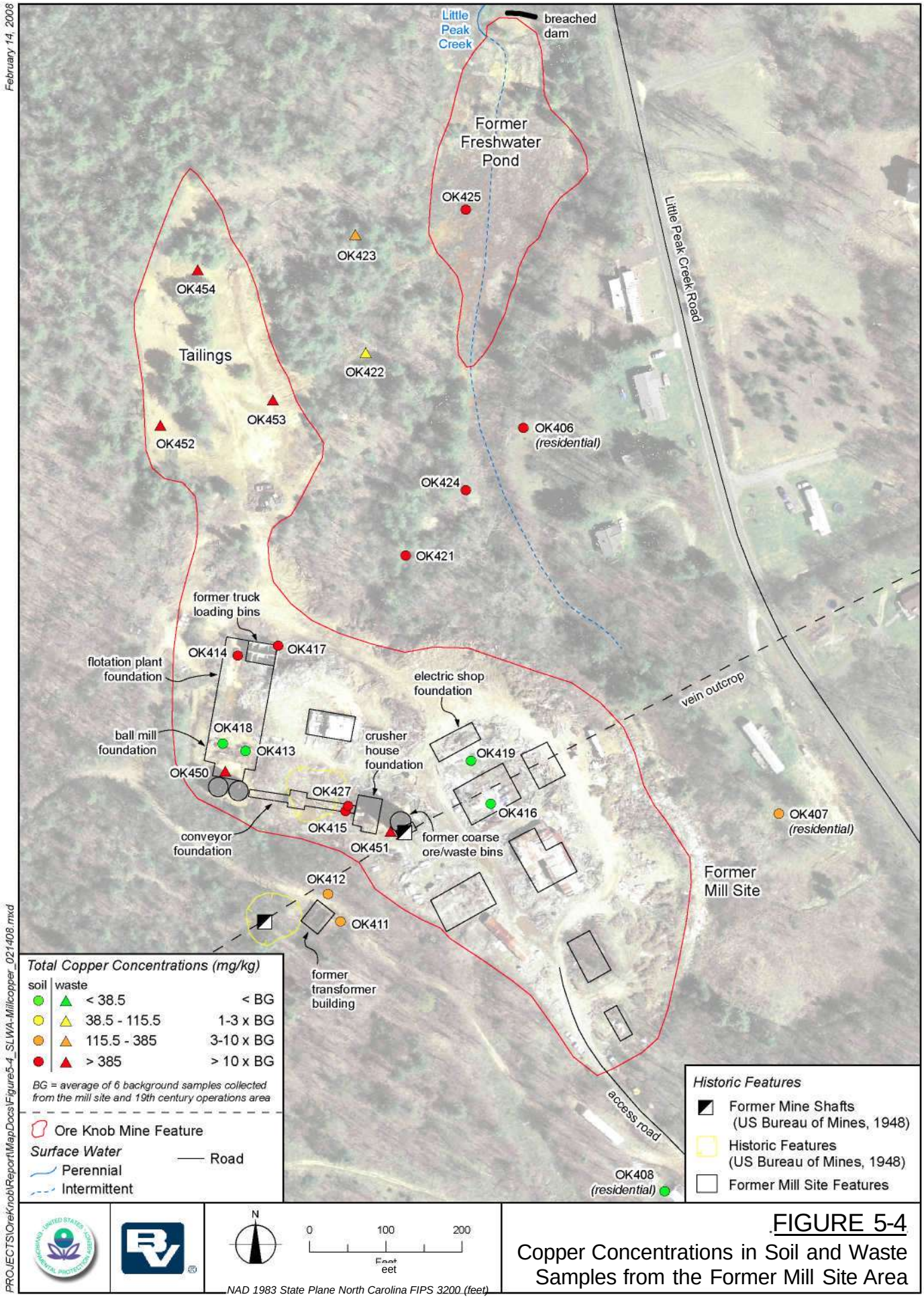


FIGURE 5-4

Copper Concentrations in Soil and Waste Samples from the Former Mill Site Area

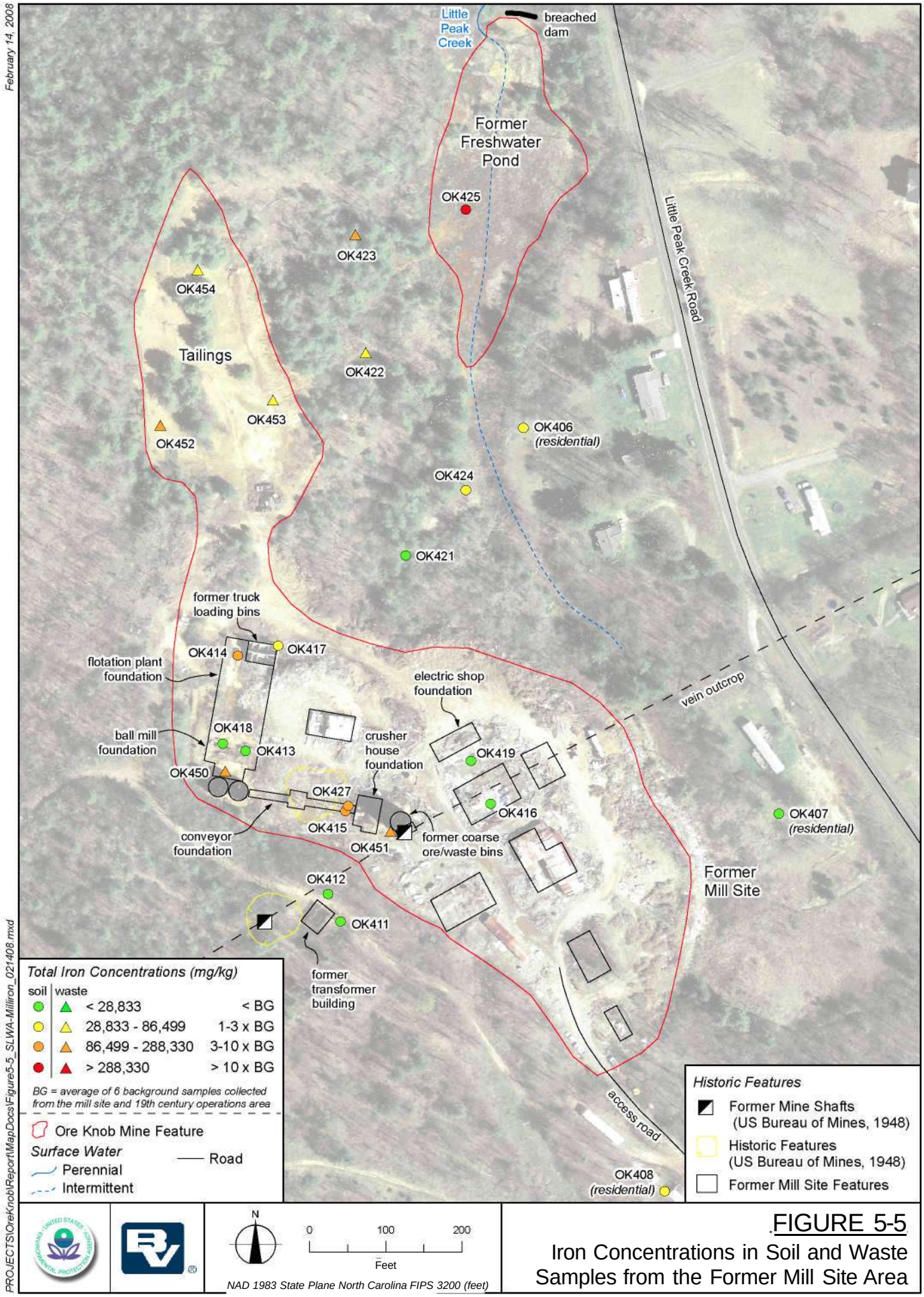


FIGURE 5-5

Iron Concentrations in Soil and Waste Samples from the Former Mill Site Area

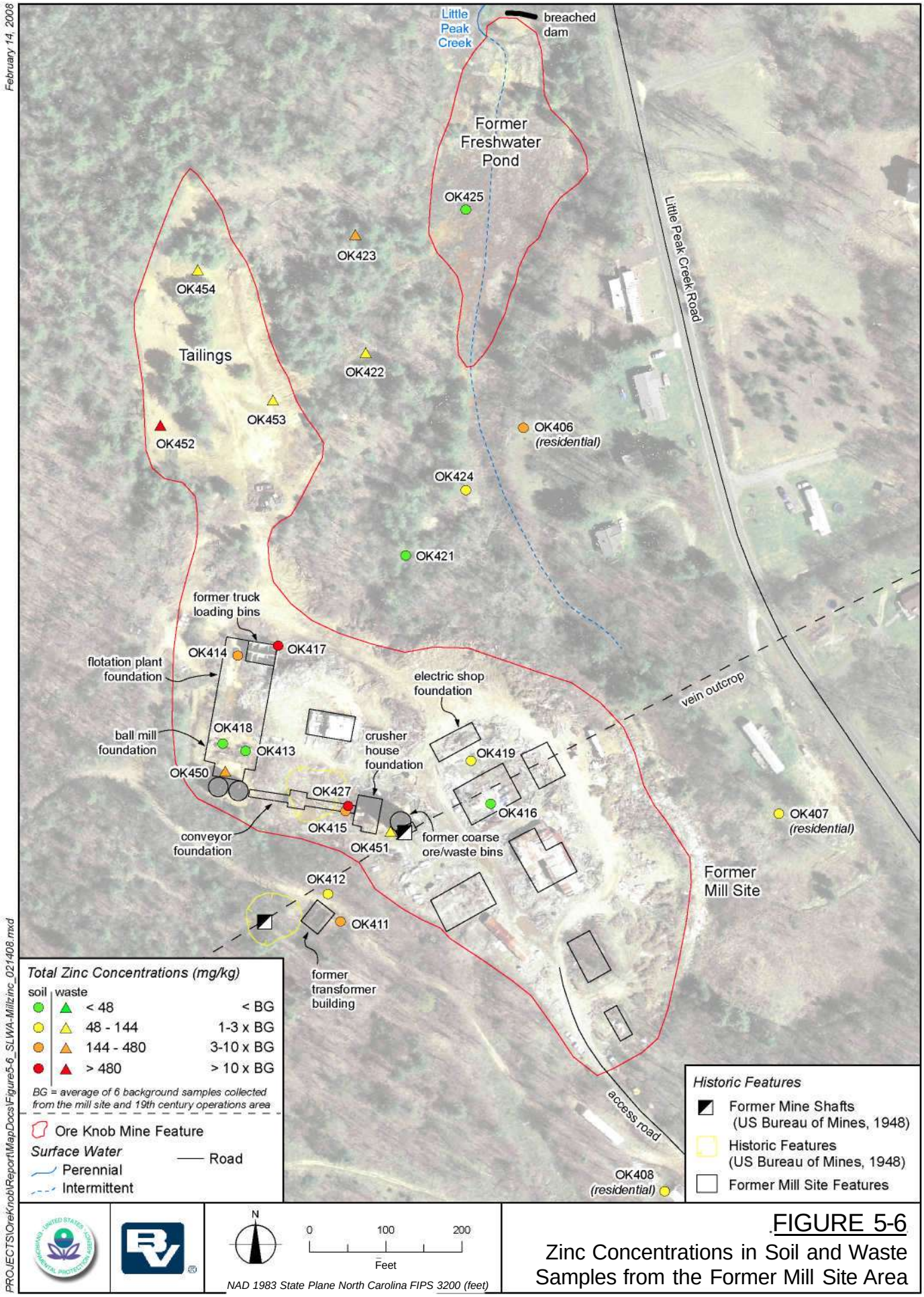


FIGURE 5-6

Zinc Concentrations in Soil and Waste Samples from the Former Mill Site Area

Figure 5-7. Ground Water Levels in the Tailings Impoundment

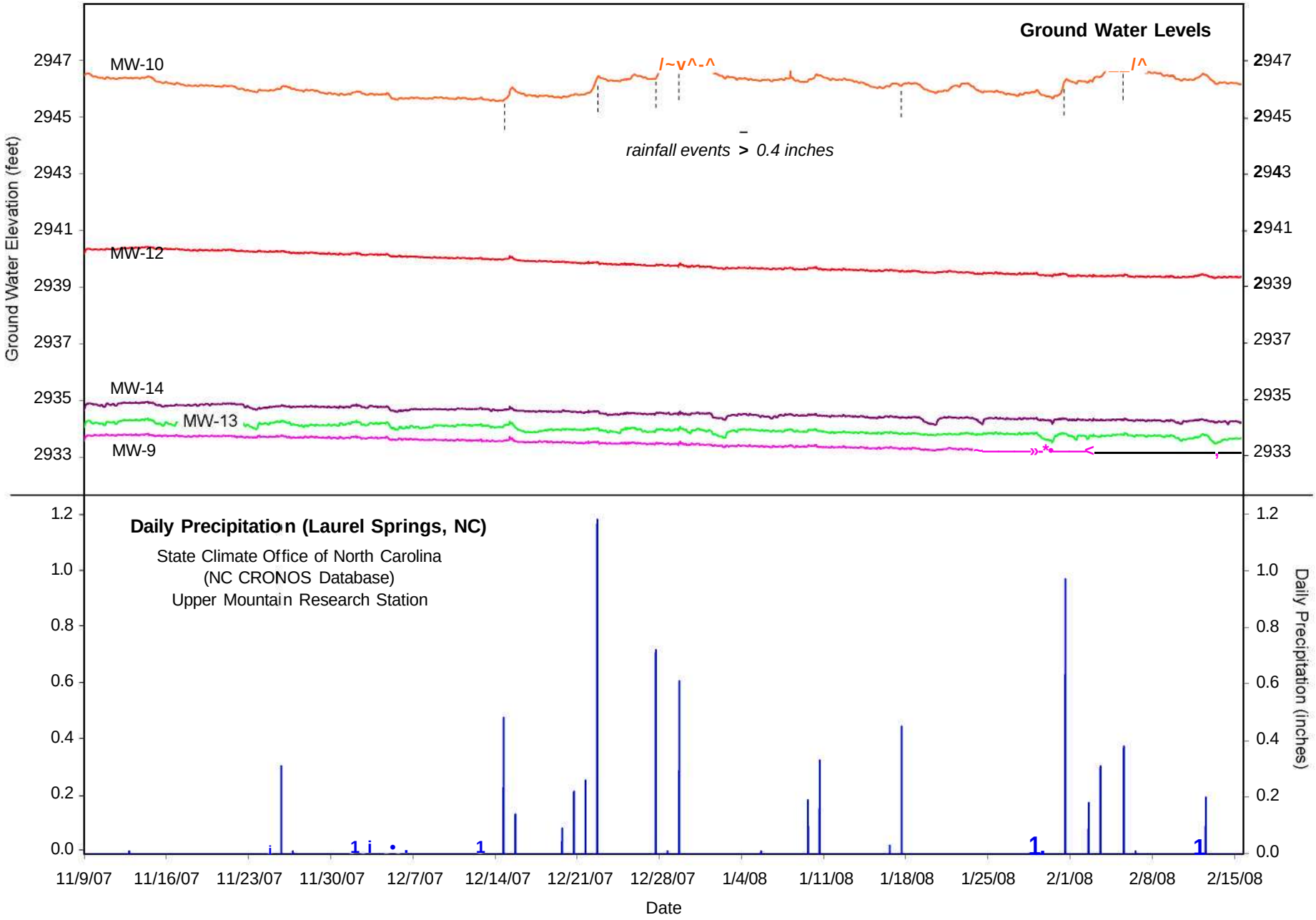
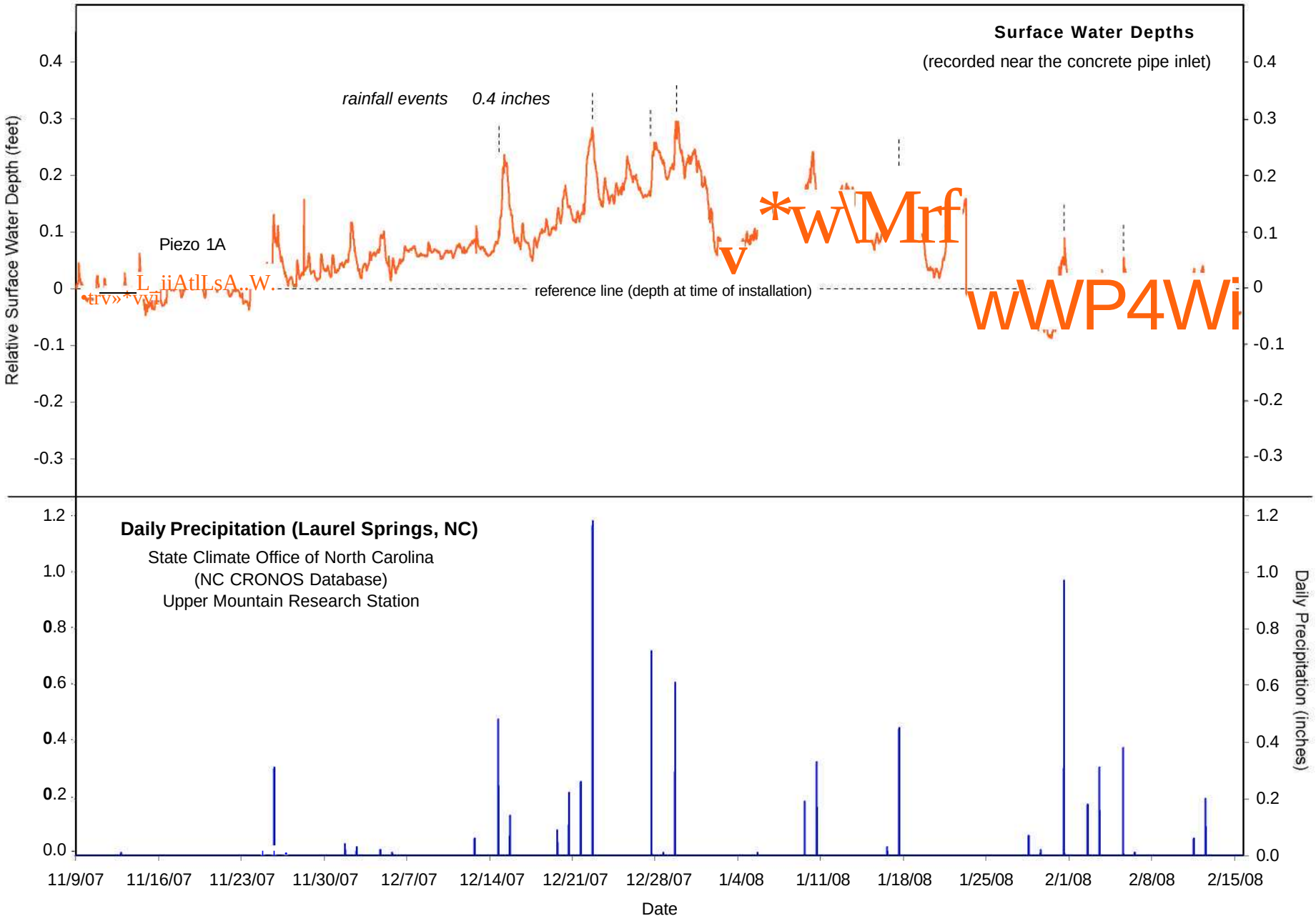


Figure 5-8. Surface Water Depths in the Southern Tailings Impoundment



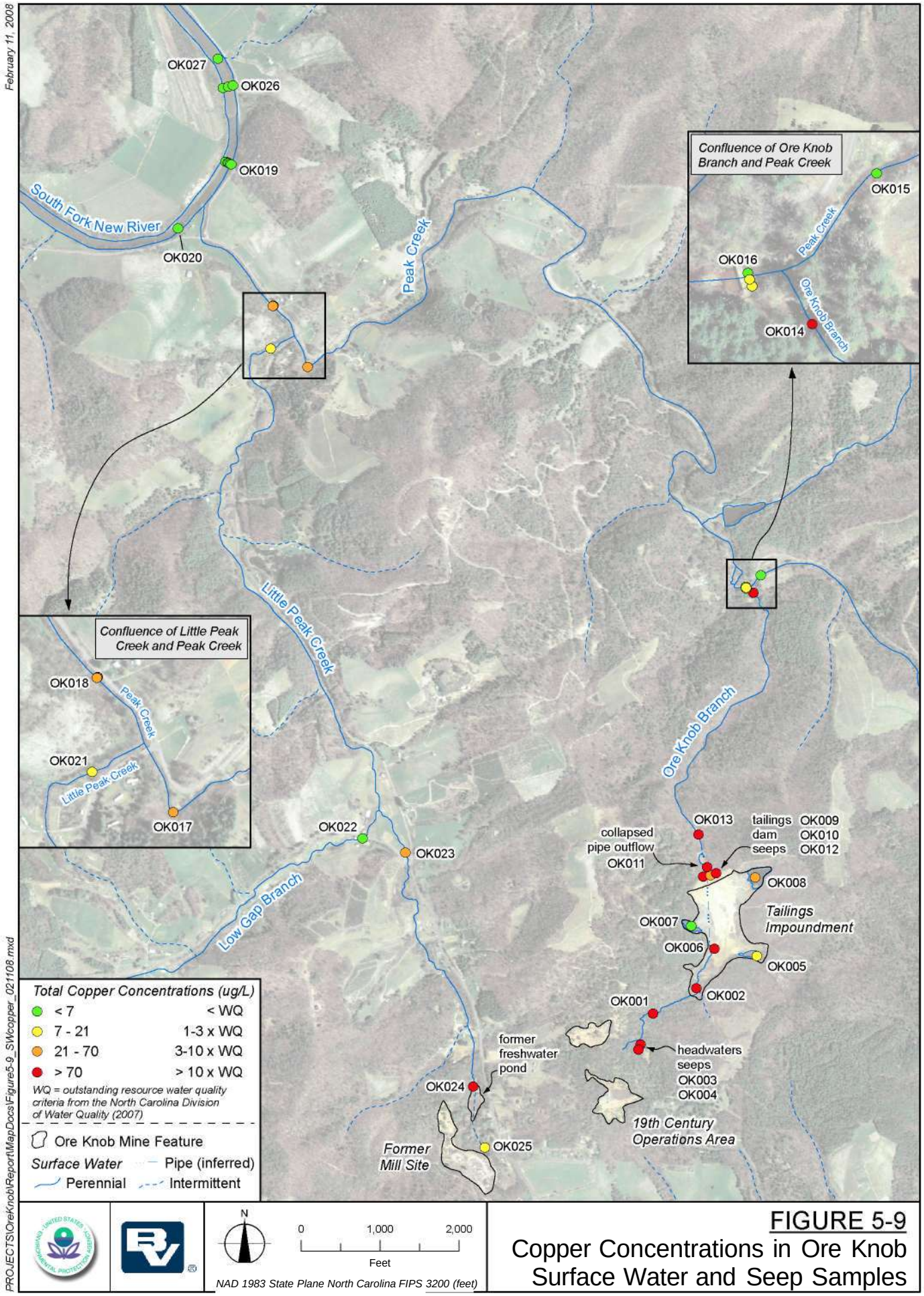


FIGURE 5-9
Copper Concentrations in Ore Knob Surface Water and Seep Samples

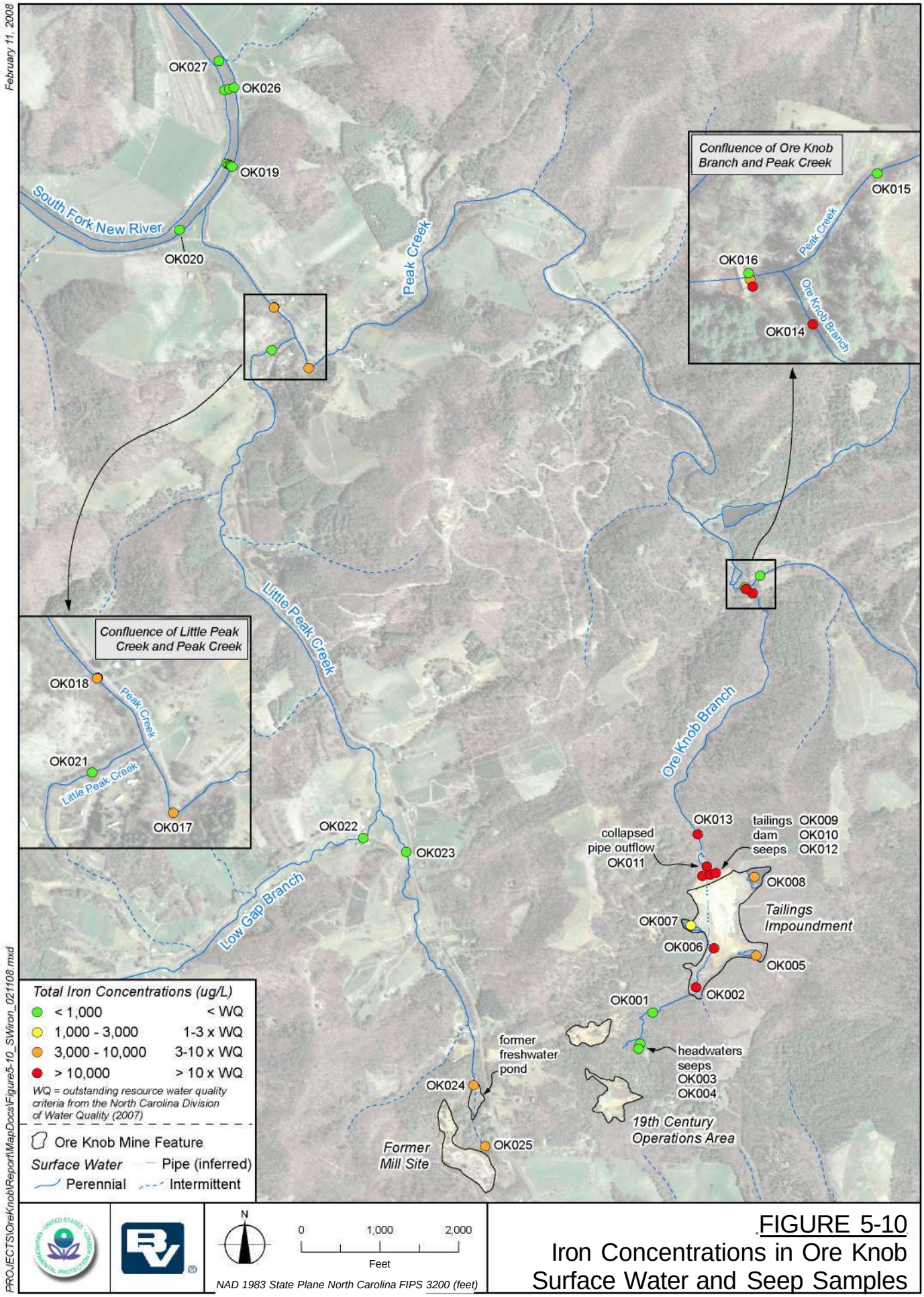


FIGURE 5-10
Iron Concentrations in Ore Knob Surface Water and Seep Samples

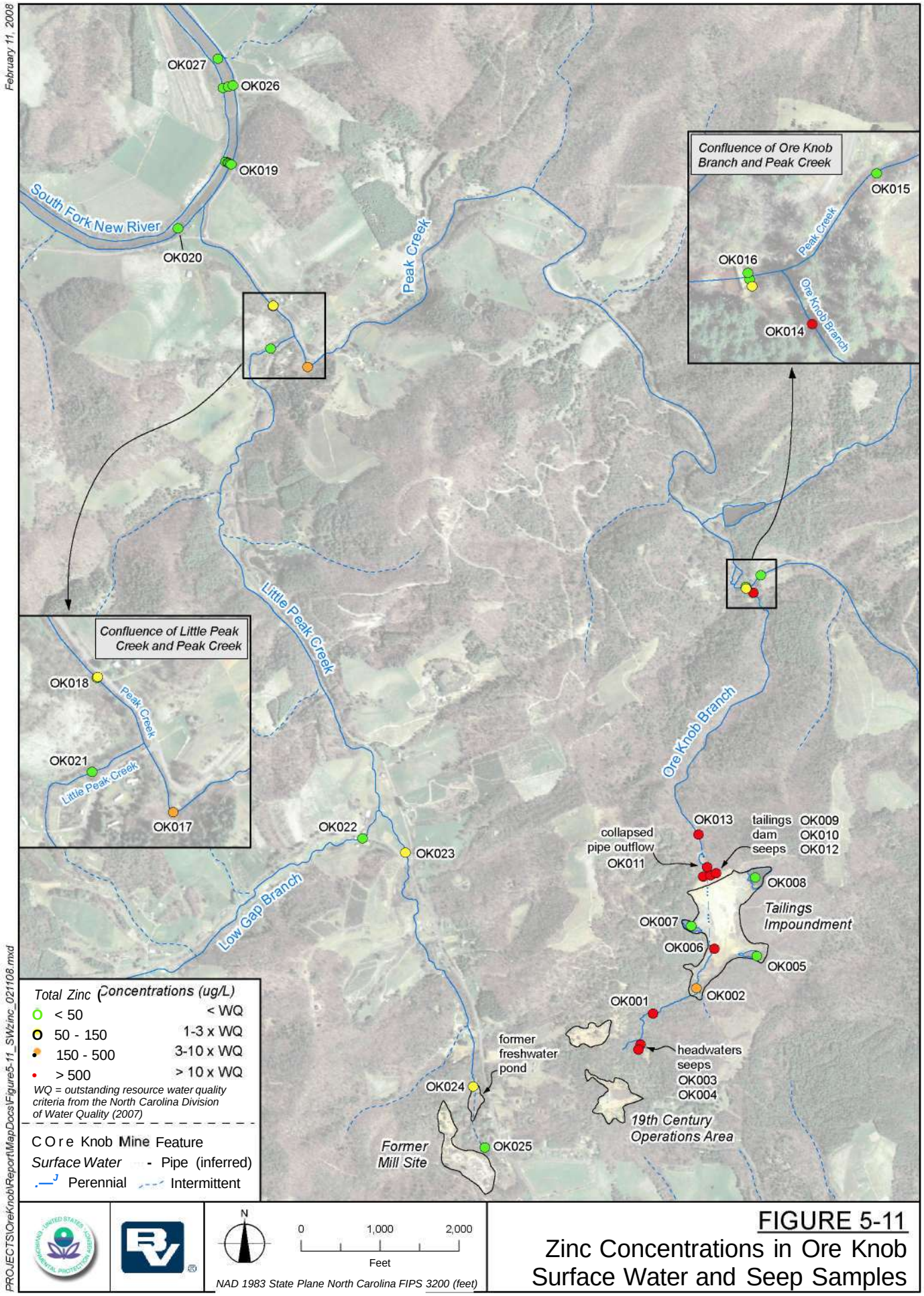


FIGURE 5-11
Zinc Concentrations in Ore Knob Surface Water and Seep Samples

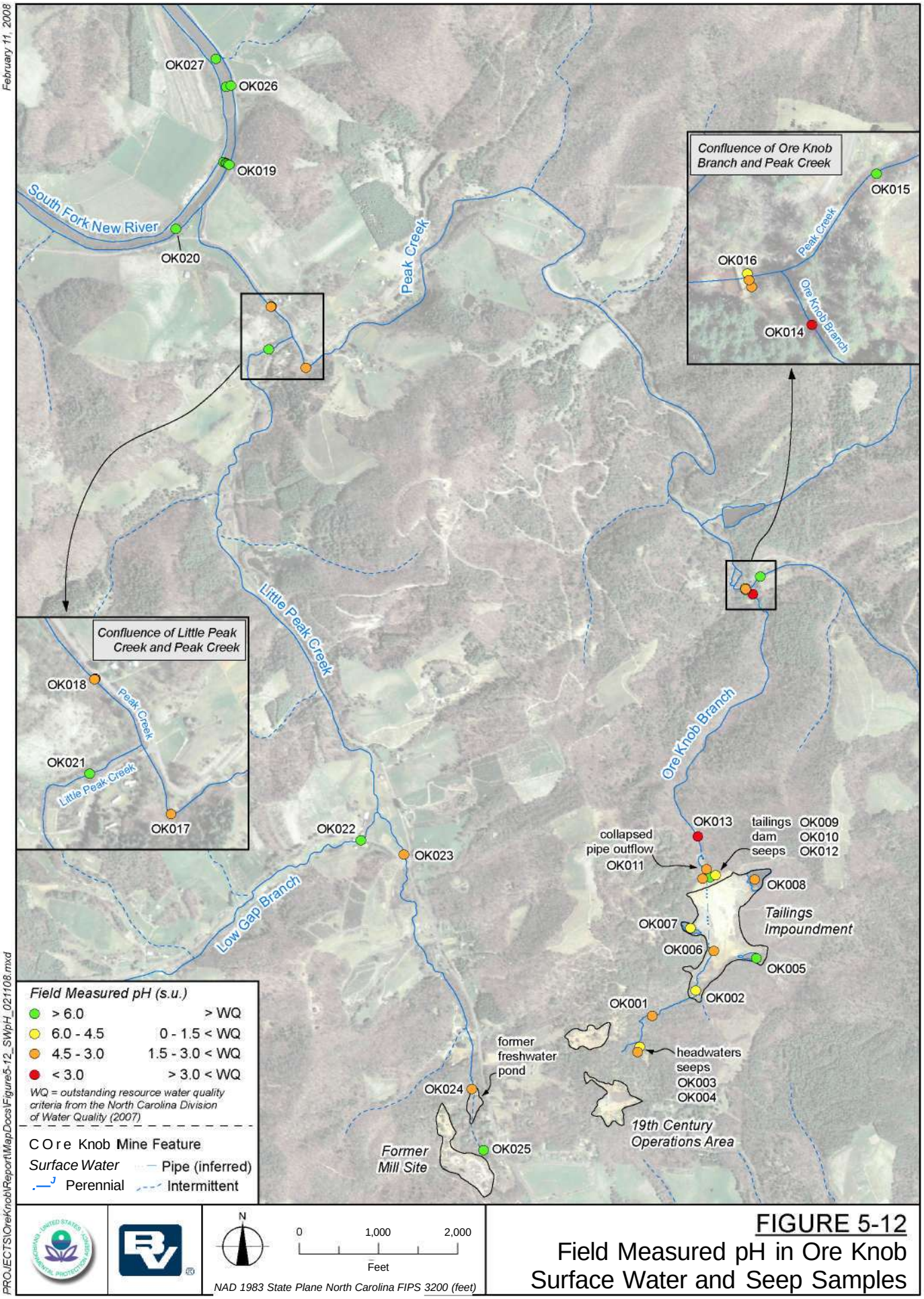


FIGURE 5-12
Field Measured pH in Ore Knob Surface Water and Seep Samples

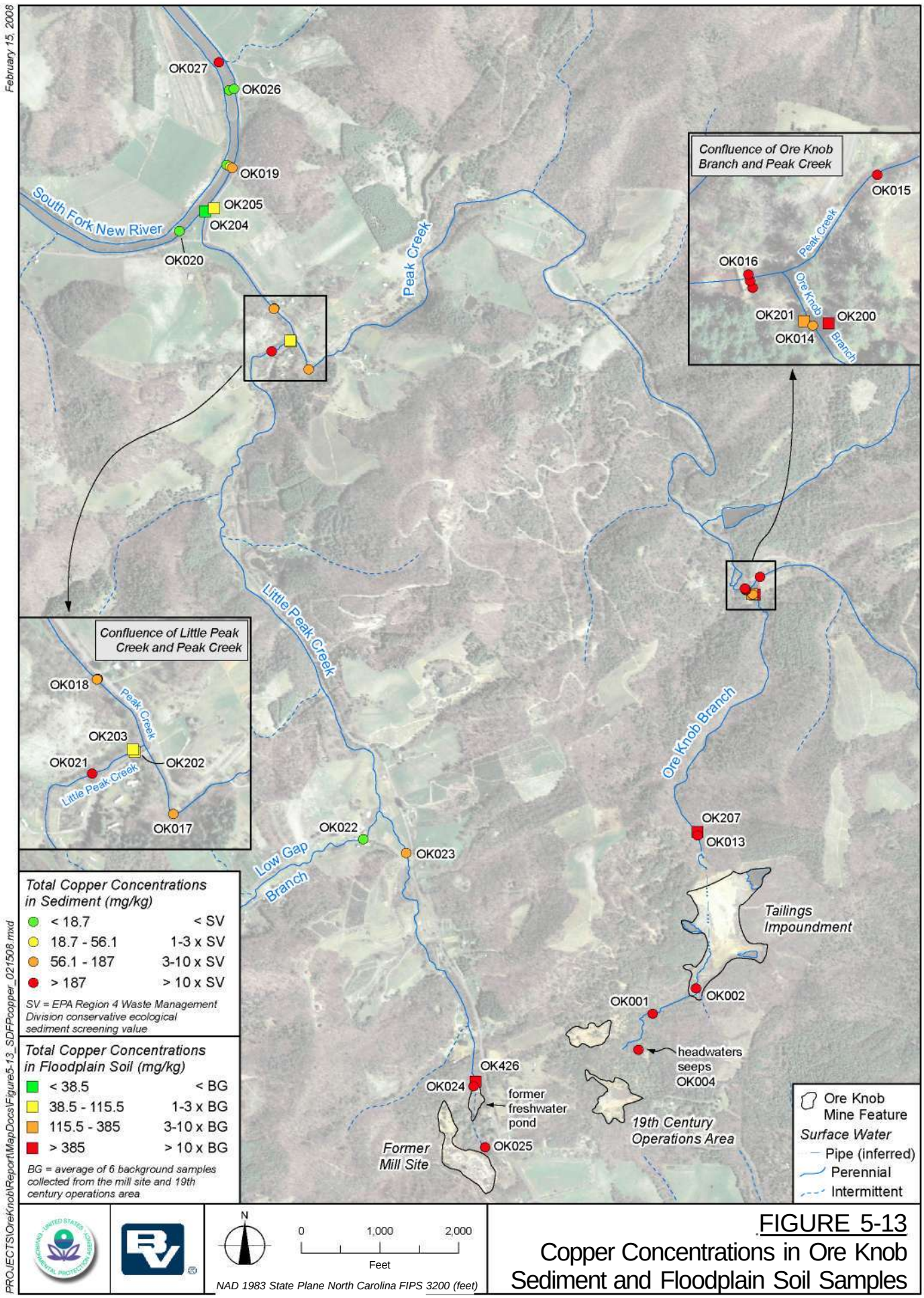


FIGURE 5-13
Copper Concentrations in Ore Knob Sediment and Floodplain Soil Samples

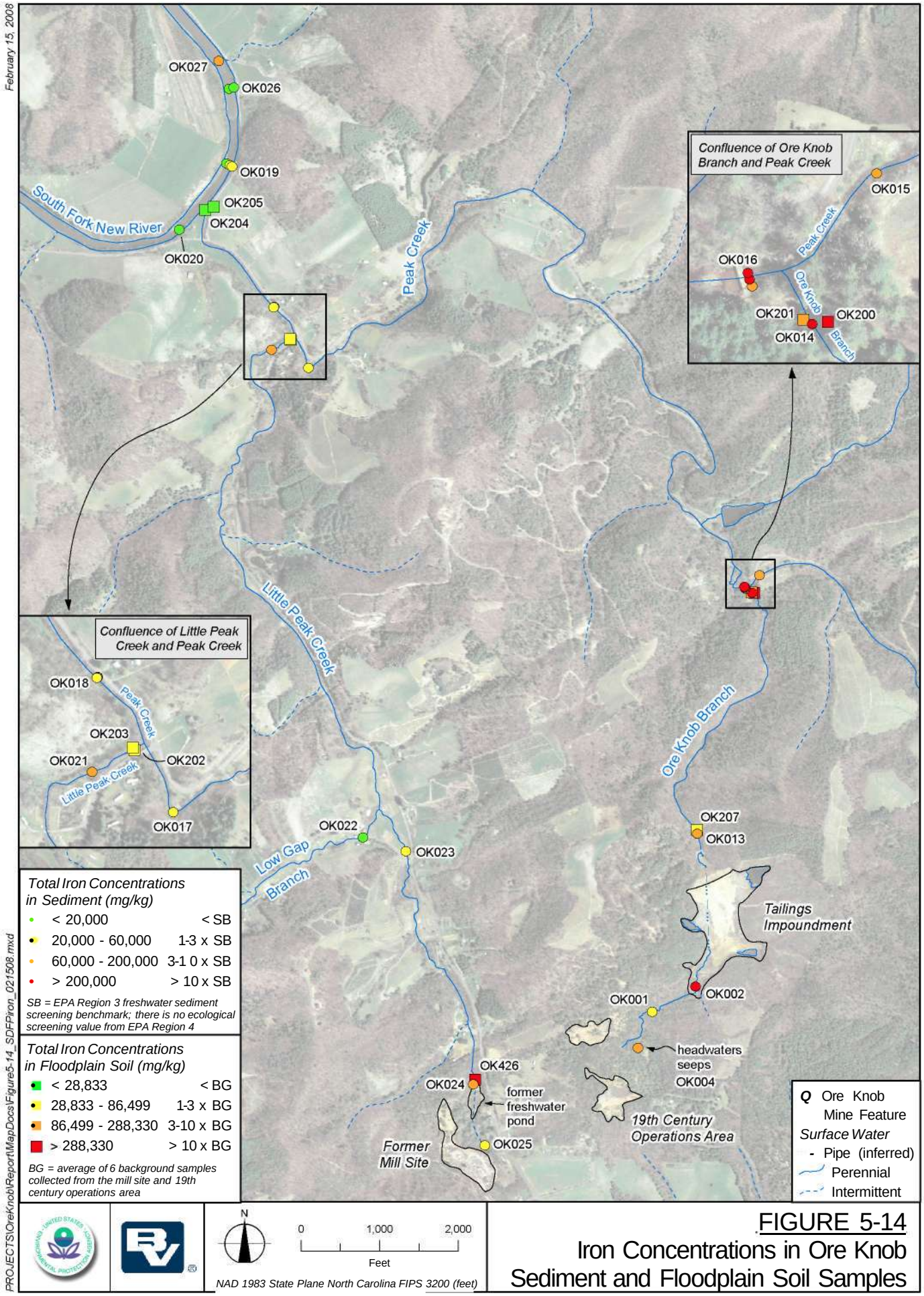


FIGURE 5-14
Iron Concentrations in Ore Knob Sediment and Floodplain Soil Samples

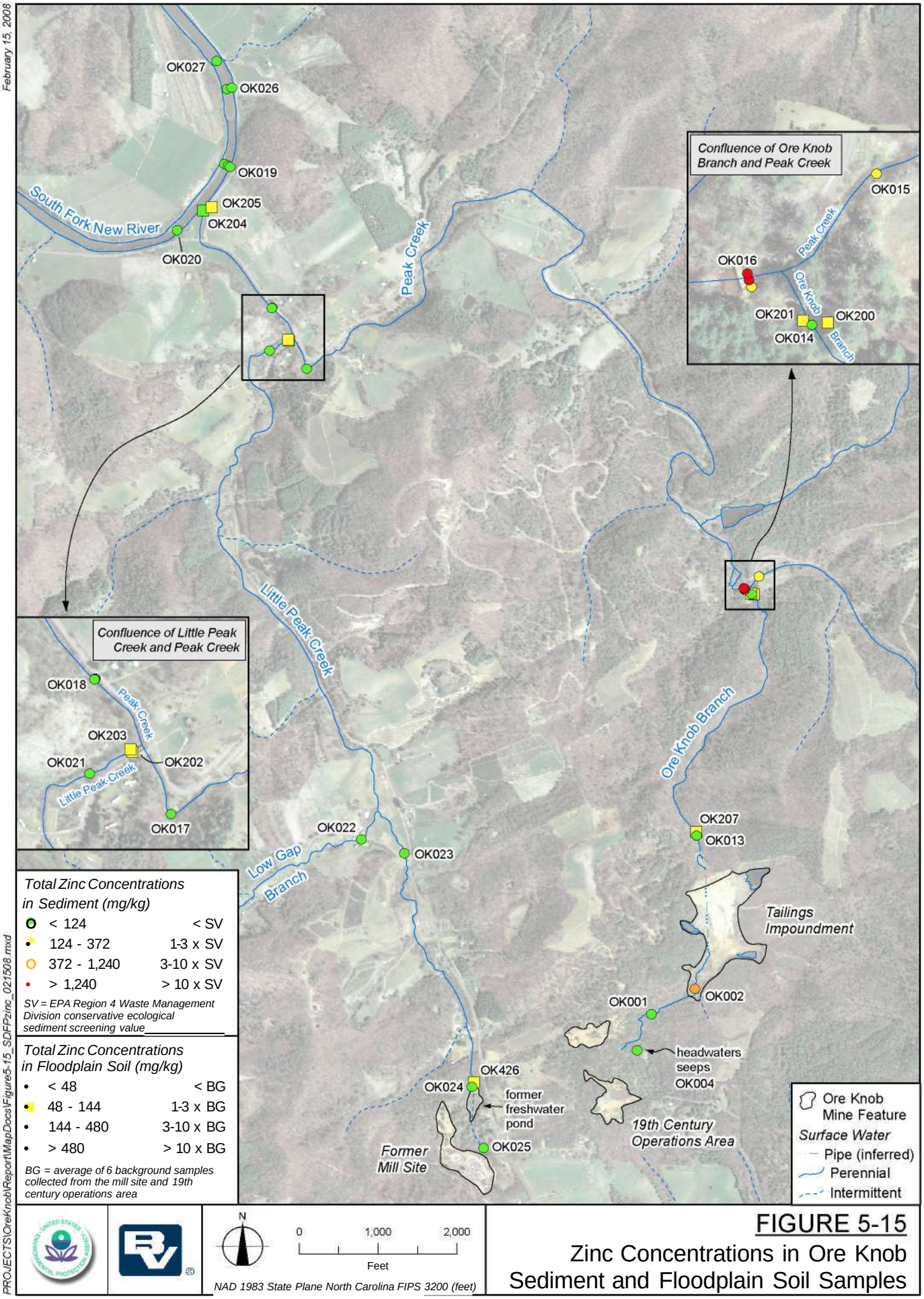
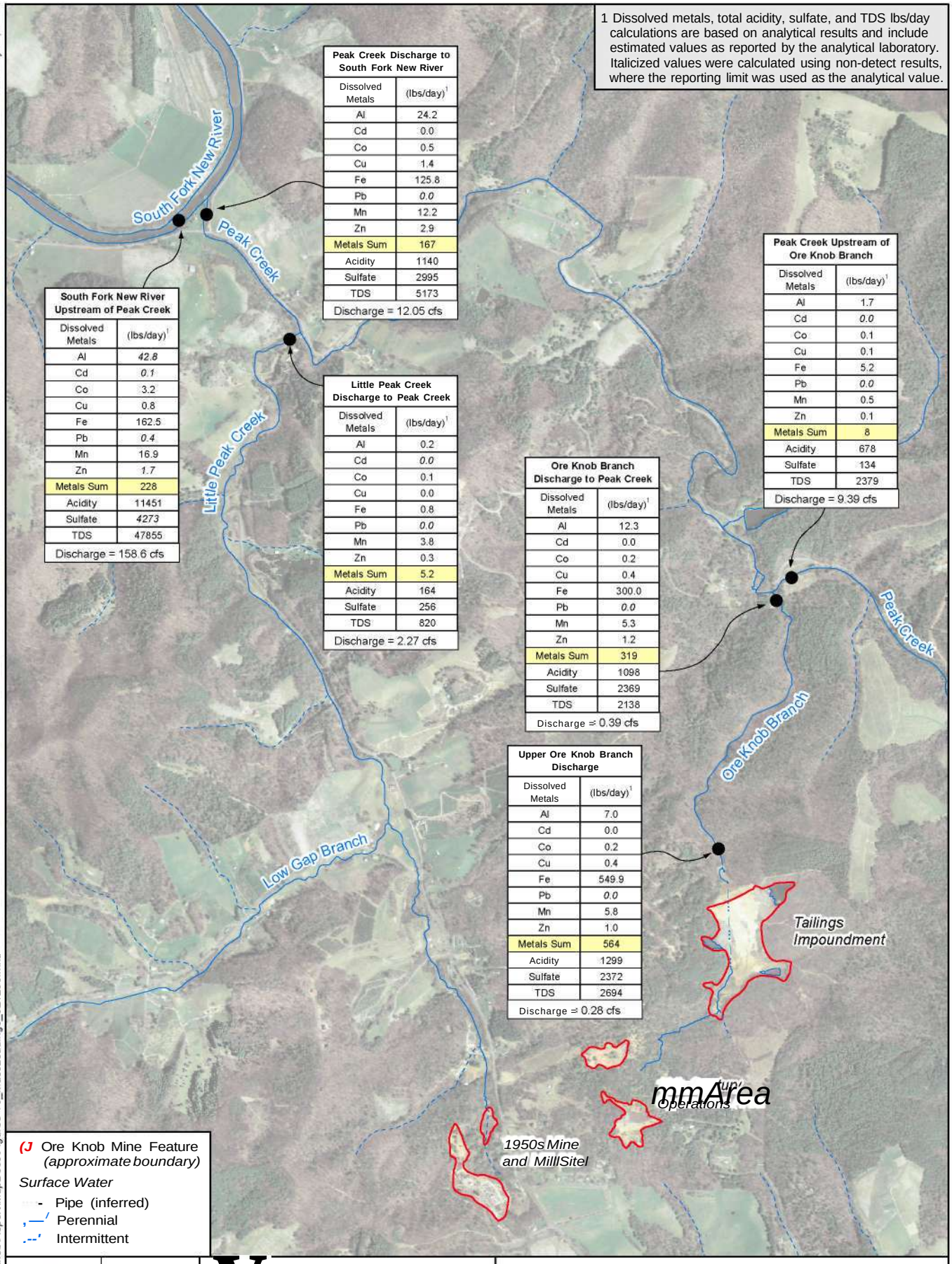


FIGURE 5-15

Zinc Concentrations in Ore Knob Sediment and Floodplain Soil Samples

February 12, 2008

1 Dissolved metals, total acidity, sulfate, and TDS lbs/day calculations are based on analytical results and include estimated values as reported by the analytical laboratory. Italicized values were calculated using non-detect results, where the reporting limit was used as the analytical value.



Peak Creek Discharge to South Fork New River

Dissolved Metals	(lbs/day)[1]
Al	24.2
Cd	0.0
Co	0.5
Cu	1.4
Fe	125.8
Pb	*0.0*
Mn	12.2
Zn	2.9
Metals Sum	167
Acidity	1140
Sulfate	2995
TDS	5173
Discharge = 12.05 cfs	

South Fork New River Upstream of Peak Creek

Dissolved Metals	(lbs/day)[1]
Al	*42.8*
Cd	*0.1*
Co	3.2
Cu	0.8
Fe	162.5
Pb	*0.4*
Mn	16.9
Zn	*1.7*
Metals Sum	228
Acidity	11451
Sulfate	*4273*
TDS	47855
Discharge = 158.6 cfs	

Little Peak Creek Discharge to Peak Creek

Dissolved Metals	(lbs/day)[1]
Al	0.2
Cd	*0.0*
Co	0.1
Cu	0.0
Fe	0.8
Pb	*0.0*
Mn	3.8
Zn	0.3
Metals Sum	5.2
Acidity	164
Sulfate	256
TDS	820
Discharge = 2.27 cfs	

Peak Creek Upstream of Ore Knob Branch

Dissolved Metals	(lbs/day)[1]
Al	1.7
Cd	*0.0*
Co	0.1
Cu	0.1
Fe	5.2
Pb	*0.0*
Mn	0.5
Zn	0.1
Metals Sum	8
Acidity	678
Sulfate	134
TDS	2379
Discharge = 9.39 cfs	

Ore Knob Branch Discharge to Peak Creek

Dissolved Metals	(lbs/day)[1]
Al	12.3
Cd	0.0
Co	0.2
Cu	0.4
Fe	300.0
Pb	*0.0*
Mn	5.3
Zn	1.2
Metals Sum	319
Acidity	1098
Sulfate	2369
TDS	2138
Discharge = 0.39 cfs	

Upper Ore Knob Branch Discharge

Dissolved Metals	(lbs/day)[1]
Al	7.0
Cd	0.0
Co	0.2
Cu	0.4
Fe	549.9
Pb	*0.0*
Mn	5.8
Zn	1.0
Metals Sum	564
Acidity	1299
Sulfate	2372
TDS	2694
Discharge = 0.28 cfs	

(J Ore Knob Mine Feature (approximate boundary)

Surface Water

- Pipe (inferred)
- Perennial
- Intermittent

0 1,000 2,000

Feet

NAD 1983 State Plane North Carolina FIPS 3200 (feet)

PROJECTS\OreKnob\Report\MapDocs\Figure5-16_MassLoadings_021208.mxd

FIGURE 5-16

Flow Weighted Mass Loadings for Ore Knob Receiving Waters

APPENDIX A

Sample Analytical Results Tables

Table A.1-1. Samples Collected from Tailings Piles
Table A.1-2. Samples Collected from Waste Rock Dumps, Slag Dumps, and Ore Bins
Table A.1-3. Samples of Other Processed Materials Near the Historic Smelter
Table A.1-4. Soil Samples from Areas Around the Historic Smelter
Table A.1-5. Soil Samples Collected from the 1950s Mill Area
Table A.1-6. TCLP Sampling
Table A.2-1. Soil Samples Collected from Background Areas Surrounding the Mine Site
Table A.3-1. Surface Water Samples Collected from the South Fork of the New River
Table A.3-2. Surface Water Samples Collected from Peak Creek
Table A.3-3. Surface Water Samples Collected from Little Peak Creek and Tributaries
Table A.3-4. Surface Water Samples Collected from Ore Knob Branch and Tributaries
Table A.3-5. Surface Water and Seep Samples Collected from the Main Tailings Impoundment
Table A.4-1. Sediment and Floodplain Soil from the New River
Table A.4-2. Sediment and Floodplain Soil from Peak Creek
Table A.4-3. Sediment and Floodplain Soil from Little Peak Creek and Tributaries
Table A.4-4. Sediment and Floodplain Soil from Ore Knob Branch
Table A.5-1. Samples from Residential Yards
Table A.5-2. Water Samples Collected from Residential Wells
Table A.6-1. QA Water Samples
Table A.6-2. QA Soil Samples

Table A.1-1. Samples Collected from Tailings Piles

		Main Tailings Impoundment									Tailings North of 1950 Mill Site			Material Eroded from Mill Site Tailings Pile	
		OK351-WA-001 7/17/2007 16:40 discrete 0 to 12 in.	OK352-WA-001 7/17/2007 16:55 discrete 30 to 33 in.	OK353-WA-001 7/17/2007 15:30 discrete 0 to 18 in.	OK354-WA-001 7/17/2007 15:15 discrete 0 to 12 in.	OK355-WA-001 7/17/2007 14:40 discrete 0 to 18 in.	OK355-WA-001D 7/17/2007 14:40 field dupe -001	OK356-WA-001 7/17/2007 13:00 discrete 0 to 12 in.	OK357-WA-001 7/17/2007 12:40 discrete 0 to 12 in.	OK358-WA-001 7/17/2007 12:25 discrete 0 to 12 in.	OK452-WA-001 7/18/2007 17:45 discrete 4 to 30 in.	OK453-WA-001 7/18/2007 17:15 discrete 4 to 48 in.	OK454-WA-001 7/18/2007 15:30 discrete 4 to 48 in.	OK422-SL-001 7/19/2007 9:25 discrete 0 to 6 in.	OK423-SL-001 7/18/2007 16:25 discrete 0 to 12 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
Metals															
Aluminum	mg/kg	6300	9000	3600 J	1200 J	6300 J	10000 J	1400 J	3900 J	2000 J	14000	5500	7900	780	2300
Antimony	mg/kg	UR	UR	UR	UR	UR	UR	UR	UR	UR	UR	1.9 UJ	1.8 UJ	UR	7 UJ
Arsenic	mg/kg	9.2 J	1.3 J	R	6.7 J	3.8 J	4.3 J	9 J	16 J	14 J	2.5 J	2.1 J	1.8 J	2.2 J	4.4 J
Barium	mg/kg	190	130	130 J	240 J	210 J	250 J	150 J	160 J	190 J	230	29	34	70	120
Beryllium	mg/kg	0.24 UJ	0.29 UJ	0.075 UJ	0.036 UJ	0.11 UJ	0.18 UJ	0.055 UJ	0.58 U	0.035 UJ	0.26 J	0.15 UJ	0.21 UJ	R	0.58 U
Cadmium	mg/kg	R	3.1	1.2 J	0.33 J	20 J	5.9 J	1.7 J	0.81 J	R	11	0.55 U	0.56 U	0.64 UJ	0.58 U
Calcium	mg/kg	980 J	6500	6100 J	25000 J	22000 J	28000 J	32000 J	16000 J	30000 J	3300 J	540 J	790 J	170 J	630 J
Chromium	mg/kg	21	38	23 J	11 J	58 J	100 J	9.2 J	38 J	24 J	68	22	22	5.2	12
Cobalt	mg/kg	110	130	72	17	180	220	230	220	140	230	4.3 UJ	5 UJ	3.7 UJ	8.9
Copper	mg/kg	2600 J	540 J	680 J	130 J	4800 J	7300 J	1400 J	2200 J	1400 J	3800 J	1200 J	1700 J	56 J	120 J
Iron	mg/kg	160000 J	120000 J	79000 J	110000 J	140000 J	160000 J	130000 J	180000 J	120000 J	180000 J	31000 J	34000 J	55000 J	110000 J
Lead	mg/kg	21 J	6.7 J	7 J	15 J	16 J	16 J	19 J	14 J	23 J	12 J	19 J	23 J	6.3 J	14 J
Magnesium	mg/kg	1600 J	4800 J	1500 J	500 J	3100 J	3900 J	380 J	1100 J	200 J	7200 J	980 J	1300 J	180 J	530 J
Manganese	mg/kg	210 J	730 J	280 J	230 J	280 J	330 J	200 J	91 J	79 J	540	65	80	68	220
Mercury	mg/kg	0.21	0.51	0.22	0.64	0.2	0.26	0.71	0.68	0.5	0.2	0.22	0.29	0.31	0.13
Nickel	mg/kg	5.5 J	23 J	10 J	7.1 J	25 J	26 J	5.9 J	4 UJ	2.8 UJ	45 J	6.9 J	7.8 J	2.1 UJ	4.6 UJ
Potassium	mg/kg	5800	4700	4700	8000	8000	8300	3700	7500	7100	8700	1000 J	1400 J	2800	4600 J
Selenium	mg/kg	52 J	13 J	13 J	30 J	35 J	35 J	54 J	60 J	87 J	24 J	1.7 UJ	1.4 UJ	14 J	28
Silver	mg/kg	2.4	0.84 UJ	1.1 UJ	1.8	1.7	1.9	2.8	1.3	2.1	1.7	0.17 J	R	0.48 J	1 J
Sodium	mg/kg	140 UJ	140 UJ	120 UJ	140 UJ	440 J	360 J	95 UJ	200 UJ	1200	260 J	550 U	560 U	330 J	360 J
Thallium	mg/kg	2.8 UJ	3.5 UJ	2.9 UJ	2.5 UJ	2.8 UJ	2.8 UJ	2.9 UJ	2.9 UJ	2.8 UJ	R	2.8 UJ	2.8 UJ	3.3 U	2.9 UJ
Vanadium	mg/kg	57	30	33 J	24 J	44 J	67 J	12 J	170 J	48 J	48	13	17	19	38
Zinc	mg/kg	200	1400 J	720 J	430 J	1400 J	1600 J	710 J	45 J	67 J	2500 J	98 J	120 J	69 J	200 J
Percent Solids	%	84	70	84	82	89	88	83	83	86	79	86	85	73	80
Cyanide															
Total Cyanide	mg/kg			3 U				2.9 U	2.9 U	2.9 U	8.8 J	2.8 U	2.9 U	0.36 UJ	
Acid-Base Accounting Parameters															
Paste pH	Std units	2.17	4.04	3.32	4.02	3.01	3.01	2.25	2.15	2.16	4.91	3.08	3.19		4.12
Sulfur, Total	%	4.00	10.90	5.20	3.12	9.04	8.54	8.68	7.93	6.12	7.95	7.85	9.41		1.07
Sulfur, Sulfate (HCl extractable)	%	2.09	2.80	2.96	2.66	2.76	2.79	3.22	3.13	3.12	1.42	3.09 J	2.67 J		0.79
Sulfur, Pyritic (HNO3 extractable)	%	1.91	8.08	2.23	0.46	6.24	5.71	5.46	4.80	2.99	6.48	4.71	6.37		0.28
Sulfur, Residual (non-extractable)	%	0.01 U	0.02	0.01	0.01 U	0.04	0.04	0.01 U	0.01 U	0.01	0.05	0.05	0.37		0.01 U
Acid Neutralization Potential	ton/kton	0.3 U	13.9	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	8.8	0.3 U	0.3 U		0.3 U
Acid Generation Potential	ton/kton	59.7 cal	253 cal	70.0 cal	14.4 cal	196 cal	180 cal	171 cal	150 cal	93.8 cal	204 cal	149 cal	211 cal		8.8 cal
Net Neutralizing Potential	ton/kton	-59.4 cal	-239 cal	-69.7 cal	-14.1 cal	-196 cal	-179 cal	-170 cal	-150 cal	-93.5 cal	-195 cal	-148 cal	-210 cal		-8.5 cal
Neutralizing Potential Ratio		0.01 cal	0.05 cal	0.00 cal	0.02 cal	0.00 cal	0.00 cal	0.00 cal	0.00 cal	0.00 cal	0.04 cal	0.00 cal	0.00 cal		0.03 cal
Polychlorinated Biphenyl Compounds															
% Moisture	%		5												21
Aroclor 1016	ug/kg		35 UJ											UR	41 U
Aroclor 1221	ug/kg		35 UJ											UR	41 U
Aroclor 1232	ug/kg		35 UJ											UR	41 U
Aroclor 1242	ug/kg		35 UJ											UR	41 U
Aroclor 1248	ug/kg		35 UJ											UR	41 U
Aroclor 1254	ug/kg		35 UJ											UR	41 U
Aroclor 1260	ug/kg		35 UJ											UR	41 U
Aroclor 1262	ug/kg		35 UJ											UR	41 U
Aroclor 1268	ug/kg		35 UJ											UR	41 U
Semivolatile Organic Compounds															
% Moisture	%		5											28	21
(3-and/or 4-)Methylphenol	ug/kg		170 U											230 U	210 U
1,1-Biphenyl	ug/kg		170 U											230 U	210 U
1,2,4,5-Tetrachlorobenzene	ug/kg		170 U											230 U	210 U
2,3,4,6-Tetrachlorophenol	ug/kg		170 UJ											230 UJ	210 UJ
2,4,5-Trichlorophenol	ug/kg		170 U											230 U	210 U
2,4,6-Trichlorophenol	ug/kg		170 U											230 U	210 U
2,4-Dichlorophenol	ug/kg		170 U											230 U	210 U
2,4-Dimethylphenol	ug/kg		170 U											230 U	210 U
2,4-Dinitrophenol	ug/kg		340 U											440 UJ	410 U
2,4-Dinitrotoluene	ug/kg		170 U											230 U	210 U
2,6-Dinitrotoluene	ug/kg		170 U											230 U	210 U
2-Chloronaphthalene	ug/kg		170 U											230 U	210 U

Table A.1-1. Samples Collected from Tailings Piles

		Main Tailings Impoundment									Tailings North of 1950 Mill Site			Material Eroded from Mill Site Tailings Pile	
		OK351-WA-001 7/17/2007 16:40 discrete 0 to 12 in.	OK352-WA-001 7/17/2007 16:55 discrete 30 to 33 in.	OK353-WA-001 7/17/2007 15:30 discrete 0 to 18 in.	OK354-WA-001 7/17/2007 15:15 discrete 0 to 12 in.	OK355-WA-001 7/17/2007 14:40 discrete 0 to 18 in.	OK355-WA-001D 7/17/2007 14:40 field dupe -001	OK356-WA-001 7/17/2007 13:00 discrete 0 to 12 in.	OK357-WA-001 7/17/2007 12:40 discrete 0 to 12 in.	OK358-WA-001 7/17/2007 12:25 discrete 0 to 12 in.	OK452-WA-001 7/18/2007 17:45 discrete 4 to 30 in.	OK453-WA-001 7/18/2007 17:15 discrete 4 to 48 in.	OK454-WA-001 7/18/2007 15:30 discrete 4 to 48 in.	OK422-SL-001 7/19/2007 9:25 discrete 0 to 6 in.	OK423-SL-001 7/18/2007 16:25 discrete 0 to 12 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
2-Chlorophenol	ug/kg		170 U											230 U	210 U
2-Methyl-4,6-Dinitrophenol	ug/kg		340 U											440 U	410 U
2-Methylnaphthalene	ug/kg		170 U											230 U	210 U
2-Methylphenol	ug/kg		170 U											230 U	210 U
2-Nitroaniline	ug/kg		340 U											440 U	410 U
2-Nitrophenol	ug/kg		170 U											230 U	210 U
3,3'-Dichlorobenzidine	ug/kg		170 U											230 U	210 U
3-Nitroaniline	ug/kg		340 U											440 U	410 U
4-Bromophenyl Phenyl Ether	ug/kg		170 U											230 U	210 U
4-Chloro-3-Methylphenol	ug/kg		170 U											230 U	210 U
4-Chloroaniline	ug/kg		170 U											230 U	210 U
4-Chlorophenyl Phenyl Ether	ug/kg		170 U											230 U	210 U
4-Nitroaniline	ug/kg		340 U											440 U	410 U
4-Nitrophenol	ug/kg		340 U											440 U	410 U
Acenaphthene	ug/kg		170 U											230 U	210 U
Acenaphthylene	ug/kg		170 U											230 U	210 U
Acetophenone	ug/kg		170 U											230 U	210 U
Anthracene	ug/kg		170 U											230 U	210 U
Atrazine	ug/kg		170 U											230 U	210 U
Benzaldehyde	ug/kg		170 U											230 U	210 U
Benzo(a)Anthracene	ug/kg		170 U											230 U	210 U
Benzo(b)Fluoranthene	ug/kg		170 U											230 U	210 U
Benzo(ghi)Perylene	ug/kg		170 U											230 U	210 U
Benzo(k)Fluoranthene	ug/kg		170 UJ											230 U	210 UJ
Benzo-a-Pyrene	ug/kg		170 U											230 U	210 U
Benzyl Butyl Phthalate	ug/kg		170 U											230 U	210 U
bis(2-Chloroethoxy)Methane	ug/kg		170 U											230 U	210 U
bis(2-Chloroethyl) Ether	ug/kg		170 U											230 U	210 U
bis(2-Chloroisopropyl) Ether	ug/kg		170 U											230 U	210 U
bis(2-Ethylhexyl) Phthalate	ug/kg		170 U											230 U	210 U
Caprolactam	ug/kg		170 U											230 U	210 U
Carbazole	ug/kg		170 U											230 U	210 U
Chrysene	ug/kg		170 U											230 U	210 U
Dibenzo(a,h)Anthracene	ug/kg		170 U											230 U	210 U
Dibenzofuran	ug/kg		170 U											230 U	210 U
Diethyl Phthalate	ug/kg		170 U											230 U	210 U
Dimethyl Phthalate	ug/kg		170 U											230 U	210 U
Di-n-Butylphthalate	ug/kg		170 U											230 U	210 U
Di-n-Octylphthalate	ug/kg		170 U											230 U	210 U
Fluoranthene	ug/kg		170 U											230 U	210 U
Fluorene	ug/kg		170 U											230 U	210 U
Hexachlorobenzene (HCB)	ug/kg		170 U											230 U	210 U
Hexachlorobutadiene	ug/kg		170 U											230 U	210 U
Hexachlorocyclopentadiene (HCCP)	ug/kg		170 U											230 U	210 U
Hexachloroethane	ug/kg		170 U											230 U	210 U
Indeno (1,2,3-cd) Pyrene	ug/kg		170 U											230 U	210 U
Isophorone	ug/kg		170 U											230 U	210 U
Naphthalene	ug/kg		170 U											230 U	210 U
Nitrobenzene	ug/kg		170 U											230 U	210 U
n-Nitroso di-n-Propylamine	ug/kg		170 U											230 U	210 U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg		170 U											230 U	210 U
Pentachlorophenol	ug/kg		340 U											440 U	410 U
Phenanthrene	ug/kg		170 U											230 U	210 U
Phenol	ug/kg		170 U											230 U	210 U
Pyrene	ug/kg		170 U											230 U	210 U
Benzo-a-pyrene Equivalents	ug/kg		U											U	U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.1-2. Samples Collected from Waste Rock Dumps, Slag Dumps, and Ore Bins

		Waste Rock Dumps Adjacent to Shafts and Adits						Slag Dumps		Ore Bins at Mill	
		South of Engine Shaft	North of Engine Shaft			NW of Shaft 2-S	In Area of Former Adits	Dumps North of Historic Smelter Foundation		Beneath Fine Ore Bins	At Ore Bin at Main Shaft
		OK511-SL-001 7/19/2007 8:40 discrete 0 to 12 in.	OK513-SL-001 7/19/2007 9:05 discrete 0 to 12 in.	OK513-SL-001D 7/19/2007 9:15 field dupe -001	OK514-SL-001 7/19/2007 9:35 discrete 0 to 12 in.	OK550-WA-001 7/19/2007 11:15 discrete 0 to 12 in.	OK556-WA-001 7/19/2007 14:10 discrete 0 to 12 in.	OK557-WA-001 7/18/2007 16:55 discrete 0 to 2 in.	OK558-WA-001 7/18/2007 17:45 discrete 0 to 12 in.	OK450-WA-001 7/18/2007 11:10 discrete 0 to 18 in.	OK451-WA-001 7/18/2007 18:25 discrete 0 to 12 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
Metals											
Aluminum	mg/kg	82000	1300	2000	41000	16000	4700 J		18000	6900	4500
Antimony	mg/kg	UR	UR	UR	UR	UR	6.8 UJ	7.4 J	6.4 UJ	6.3 UJ	0.25 UJ
Arsenic	mg/kg	R	1.1 UJ	1.2 UJ	R	R	1.1 UJ	3.7 U	1.1 UJ	3.2 J	4 J
Barium	mg/kg	270	120	160	240	58	310 J	375	300	210	140
Beryllium	mg/kg	1.9	0.06 J	0.11 J	1.1	0.62	0.57 U	2 U	0.6	0.53 U	0.52 U
Cadmium	mg/kg	0.86 UJ	2.7	7	3.3	0.2 UJ	0.57 U	0.1 U	1.6	0.45 UJ	0.52 U
Calcium	mg/kg	600 J	17000 J	38000 J	300 J	180 J	120 J		34000 J	18000 J	10000 J
Chromium	mg/kg	77	3.8	6.9	44	14	32 J	29.1	28	37	24
Cobalt	mg/kg	28	6.7	17	28	11	7.5 J	134	390	110	34
Copper	mg/kg	490 J	650 J	2600 J	2600 J	270 J	2000 J	4600	14000 J	20000 J	5600 J
Iron	mg/kg	91000 J	150000 J	270000 J	170000 J	21000 J	210000 J		350000 J	200000 J	120000 J
Lead	mg/kg	23 J	27 J	47 J	25 J	12 J	26 J	2.1 B	11 J	17 J	16 J
Magnesium	mg/kg	11000 J	370 J	360 J	7500 J	1900 J	2500 J		5000 J	3000 J	2400 J
Manganese	mg/kg	780	110	280	480	400	200 J		7100	240	130
Mercury	mg/kg	0.5	0.3	0.6	0.21	0.15	0.11 U	0.15 J	0.09 U	0.38	0.21
Molybdenum	mg/kg	NA	NA	NA	NA	NA	NA	9.5	NA	NA	NA
Nickel	mg/kg	30 J	0.73 UJ	1.3 UJ	14 J	8.1 J	1.9 UJ	14	24 J	6.5 J	4.2 UJ
Potassium	mg/kg	9200	4400	3700	8400	980	10000 J		4800 J	10000 J	8400 J
Selenium	mg/kg	13 UJ	14 J	22 J	9.9 J	4.1 UJ	37 J	4.9 B	3.7 U	38	21
Silver	mg/kg	3.6 U	4.7	9.4	3.5	1.2 U	4.8	2.8	4.2	5.3	3.8
Sodium	mg/kg	1800 U	400 J	300 J	610 U	580 U	940		1800	460 J	330 J
Thallium	mg/kg	9 U	R	8.6	R	2.9 U	2.8 U	1.6 U	2.7 UJ	2.6 UJ	2.6 UJ
Vanadium	mg/kg	130	18	31	68	18	55 J	25.6	33	55	37
Zinc	mg/kg	220 J	200 J	410 J	210 J	47 J	270 J	R	3900 J	420 J	77 J
Percent Solids	%	26	89	87	82	82	88		93	91	92
Acid-Base Accounting Parameters											
Paste pH	Std units	4.33	2.56	1.08	3.14	4.78	2.35	6.79	6.34	2.28	2.35
Sulfur, Total	%	0.11	3.05	7.04	1.39	0.08	2.42	1.73	1.08	8.16	4.65
Sulfur, Sulfate (HCl extractable)	%	0.09	2.75	4.66	0.81	0.05	1.54	0.37 J	0.64 J	4.02	2.47
Sulfur, Pyritic (HNO3 extractable)	%	0.01	0.28	1.84	0.53	0.02	0.71	0.94	0.94	4.11	2.12
Sulfur, Residual (non-extractable)	%	0.01	0.02	0.54	0.05	0.01	0.17	0.42	0.07	0.03	0.06
Acid Neutralization Potential	ton/kton	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	65.6	44.4	0.3 U	0.3 U
Acid Generation Potential	ton/kton	0.63 cal	9.4 cal	74.4 cal	18.1 cal	0.94 cal	27.5 cal	42.5 cal	13.8 cal	129 cal	68.1 cal
Net Neutralizing Potential	ton/kton	-0.33 cal	-9.1 cal	-74.1 cal	-17.8 cal	-0.64 cal	-27.2 cal	23.1 cal	30.7 cal	-129 cal	-67.8 cal
Neutralizing Potential Ratio		0.48 cal	0.03 cal	0.004 cal	0.02 cal	0.32 cal	0.01 cal	1.54 cal	3.23 cal	0.002 cal	0.004 cal
Polychlorinated Biphenyl Compounds											
% Moisture	%								16		
Aroclor 1016	ug/kg	UR	UR	UR	UR		UR		39 U		
Aroclor 1221	ug/kg	UR	UR	UR	UR		UR		39 U		
Aroclor 1232	ug/kg	UR	UR	UR	UR		UR		39 U		
Aroclor 1242	ug/kg	UR	UR	UR	UR		UR		39 U		
Aroclor 1248	ug/kg	UR	UR	UR	UR		UR		39 U		
Aroclor 1254	ug/kg	UR	UR	UR	UR		UR		39 U		
Aroclor 1260	ug/kg	UR	UR	UR	UR		UR		39 U		
Aroclor 1262	ug/kg	UR	UR	UR	UR		UR		39 U		
Aroclor 1268	ug/kg	UR	UR	UR	UR		UR		39 U		
Semivolatile Organic Compounds											
% Moisture	%	16	11	12	15		10		16		
(3-and/or 4-)Methylphenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
1,1-Biphenyl	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
1,2,4,5-Tetrachlorobenzene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2,3,4,6-Tetrachlorophenol	ug/kg	200 UJ	190 UJ	190 UJ	200 UJ		190 U		200 UJ		
2,4,5-Trichlorophenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2,4,6-Trichlorophenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2,4-Dichlorophenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2,4-Dimethylphenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2,4-Dinitrophenol	ug/kg	380 UJ	360 UJ	380 UJ	390 UJ		360 U		380 U		
2,4-Dinitrotoluene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2,6-Dinitrotoluene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2-Chloronaphthalene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2-Chlorophenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2-Methyl-4,6-Dinitrophenol	ug/kg	380 U	360 U	380 U	390 U		360 U		380 U		
2-Methylnaphthalene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2-Methylphenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
2-Nitroaniline	ug/kg	380 U	360 U	380 U	390 U		360 U		380 U		
2-Nitrophenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
3,3'-Dichlorobenzidine	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
3-Nitroaniline	ug/kg	380 U	360 U	380 U	390 U		360 U		380 U		
4-Bromophenyl Phenyl Ether	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
4-Chloro-3-Methylphenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
4-Chloroaniline	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
4-Chlorophenyl Phenyl Ether	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
4-Nitroaniline	ug/kg	380 U	360 U	380 U	390 U		360 U		380 U		
4-Nitrophenol	ug/kg	380 U	360 U	380 U	390 U		360 U		380 U		
Acenaphthene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Acenaphthylene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Acetophenone	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Anthracene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Atrazine	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Benzaldehyde	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Benzo(a)Anthracene	ug/kg	200 U	190 U	190 UJ	200 U		51 J		38 J		
Benzo(b)Fluoranthene	ug/kg	200 U	190 U	190 UJ	200 U		53 J		39 J		
Benzo(ghi)Perylene	ug/kg	200 U	190 U	190 UJ	200 U		26 J		30 J		
Benzo(k)Fluoranthene	ug/kg	200 U	190 U	190 UJ	200 U		50 J		44 J		
Benzo-a-Pyrene	ug/kg	200 U	190 U	190 UJ	200 U		49 J		41 J		
Benzyl Butyl Phthalate	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
bis(2-Chloroethoxy)Methane	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
bis(2-Chloroethyl) Ether	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
bis(2-Chloroisopropyl) Ether	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
bis(2-Ethylhexyl) Phthalate	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
Caprolactam	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
Carbazole	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
Chrysene	ug/kg	200 U	190 U	190 UJ	200 U		45 J		37 J		
Dibenzo(a,h)Anthracene	ug/kg	200 U	190 U	190 UJ	200 U		190 U		200 U		
Dibenzofuran	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
Diethyl Phthalate	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
Dimethyl Phthalate	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
Di-n-Butylphthalate	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
Di-n-Octylphthalate	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
Fluoranthene	ug/kg	200 U	190 U	190 UJ	200 U		88 J		64 J		
Fluorene	ug/kg	200 U	190 U	190 UJ	200 U		190 UJ		200 U		
Hexachlorobenzene (HCB)	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Hexachlorobutadiene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Hexachlorocyclopentadiene (HCCP)	ug/kg	200 U	190 U	190 U	200 U		190 UJ		200 U		
Hexachloroethane	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Indeno (1,2,3-cd) Pyrene	ug/kg	200 U	190 U	190 UJ	200 U		30 J		36 J		
Isophorone	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Naphthalene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Nitrobenzene	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
n-Nitroso di-n-Propylamine	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Pentachlorophenol	ug/kg	380 U	360 U	380 U	390 U		360 U		380 U		
Phenanthrene	ug/kg	200 U	190 U	190 U	200 U		58 J		200 U		
Phenol	ug/kg	200 U	190 U	190 U	200 U		190 U		200 U		
Pyrene	ug/kg	200 U	190 U	190 UJ	200 U		83 J		79 J		
Benzo-a-pyrene Equivalents	ug/kg	U	U	U	U		62.9 cal		52.8 cal		

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
NA-Not Analyzed.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.1-3. Samples of Other Processed Materials Near the Historic Smelter

		Crushed material behind wood cribbing		Crushed, oxidized material		Former Roaster Area		Fine calcine-like material	
		OK512-SL-001 7/19/2007 8:25 discrete 0 to 12 in.		OK520-SL-001 7/19/2007 9:55 discrete 0 to 6 in.		OK552-WA-001 7/18/2007 13:10 discrete 0 to 6 in.		OK555-WA-001 7/18/2007 11:25 disrete 0 to 6 in.	
		Total		*Total*		*Total*		*Total*	
Metals									
Aluminum	mg/kg	1900		1400		39000		3900	
Antimony	mg/kg		UR		UR	0.26	UJ	7	UJ
Arsenic	mg/kg	1.1	UJ	1.3	UJ	1.3	UJ	1.2	UJ
Barium	mg/kg	160		82		190		140	
Beryllium	mg/kg	0.11	J		R	0.6	UJ	0.08	UJ
Cadmium	mg/kg	4.2		1.5		0.64	U	0.57	UJ
Calcium	mg/kg	18000		61000	J	550	J	210	UJ
Chromium	mg/kg	7.2		8.9		46		10	
Cobalt	mg/kg	19		2.4	UJ	15		85	
Copper	mg/kg	1400	J	170	J	200	J	15000	J
Iron	mg/kg	210000	J	95000	J	56000	J	270000	J
Lead	mg/kg	32	J	16	J	13	J	250	J
Magnesium	mg/kg	460	J	170	J	3000	J	780	J
Manganese	mg/kg	260		73		170		270	
Mercury	mg/kg	0.44		0.18		0.12	U	0.12	U
Nickel	mg/kg	0.94	UJ	5.3	UJ	19	J	4.7	J
Potassium	mg/kg	5600		2600		4200	J	2200	J
Selenium	mg/kg	10	J	10	J	4.5	U	7.8	
Silver	mg/kg	7.5		9.6	J	1.3	U	9.4	
Sodium	mg/kg	360	J	310	J	640	U	15000	
Thallium	mg/kg	4.1				3.2	UJ	2.9	UJ
Vanadium	mg/kg	26		17		75		21	
Zinc	mg/kg	200	J	52	J	92	J	2100	J
Percent Solids	%	85		73		78		83	
Acid-Base Accounting Parameters									
Paste pH	Std units	2.49		4.33		4.57		3.09	
Sulfur, Total	%	3.74		4.02		0.84		4.03	
Sulfur, Sulfate (HCl extractable)	%	3.17		3.49		0.33	J	2.65	J
Sulfur, Pyritic (HNO3 extractable)	%	0.44		0.43		0.43		1.35	
Sulfur, Residual (non-extractable)	%	0.13		0.10		0.08		0.03	
Acid Neutralization Potential	ton/kton	0.3	U	0.3	U	0.3	U	0.3	U
Acid Generation Potential	ton/kton	17.8	cal	16.6	cal	15.9	cal	43.1	cal
Net Neutralizing Potential	ton/kton	-17.5	cal	-16.3	cal	-15.6	cal	-42.8	cal
Neutralizing Potential Ratio		0.02	cal	0.02	cal	0.02	cal	0.01	cal
Polyvchlorinated Biphenyl Compounds									
% Moisture	%					18		17	
Aroclor 1016	ug/kg		UR		UR	40	U	39	U
Aroclor 1221	ug/kg		UR		UR	40	U	39	U
Aroclor 1232	ug/kg		UR		UR	40	U	39	U
Aroclor 1242	ug/kg		UR		UR	40	U	39	U
Aroclor 1248	ug/kg		UR		UR	40	U	39	U
Aroclor 1254	ug/kg		UR		UR	40	U	39	U
Aroclor 1260	ug/kg		UR		UR	40	U	39	U
Aroclor 1262	ug/kg		UR		UR	40	U	39	U
Aroclor 1268	ug/kg		UR		UR	40	U	39	U
Semivolatile Organic Compounds									
% Moisture	%	14		13		18		17	
(3-and/or 4-)Methylphenol	ug/kg	200	U	190	U	200	U	200	U
1,1-Biphenyl	ug/kg	200	U	190	U	200	U	200	U
1,2,4,5-Tetrachlorobenzene	ug/kg	200	U	190	U	200	U	200	U
2,3,4,6-Tetrachlorophenol	ug/kg	200	U	190	U	200	UJ	200	UJ
2,4,5-Trichlorophenol	ug/kg	200	U	190	U	200	U	200	U
2,4,6-Trichlorophenol	ug/kg	200	U	190	U	200	U	200	U
2,4-Dichlorophenol	ug/kg	200	U	190	U	200	U	200	U
2,4-Dimethylphenol	ug/kg	200	U	190	U	200	U	200	U
2,4-Dinitrophenol	ug/kg	380	U	380	U	390	U	390	U
2,4-Dinitrotoluene	ug/kg	200	U	190	U	200	U	200	U
2,6-Dinitrotoluene	ug/kg	200	U	190	U	200	U	200	U
2-Chloronaphthalene	ug/kg	200	U	190	U	200	U	200	U
2-Chlorophenol	ug/kg	200	U	190	U	200	U	200	U
2-Methyl-4,6-Dinitrophenol	ug/kg	380	U	380	U	390	U	390	U
2-Methylnaphthalene	ug/kg	200	U	190	U	200	U	200	U
2-Methylphenol	ug/kg	200	U	190	U	200	U	200	U
2-Nitroaniline	ug/kg	380	U	380	U	390	U	390	U
2-Nitrophenol	ug/kg	200	U	190	U	200	U	200	U
3,3'-Dichlorobenzidine	ug/kg	200	U	190	U	200	U	200	U
3-Nitroaniline	ug/kg	380	U	380	U	390	U	390	U
4-Bromophenyl Phenyl Ether	ug/kg	200	U	190	U	200	U	200	U
4-Chloro-3-Methylphenol	ug/kg	200	U	190	U	200	U	200	U
4-Chloroaniline	ug/kg	200	U	190	U	200	U	200	U
4-Chlorophenyl Phenyl Ether	ug/kg	200	U	190	U	200	U	200	U
4-Nitroaniline	ug/kg	380	U	380	U	390	U	390	U
4-Nitrophenol	ug/kg	380	U	380	U	390	U	390	U
Acenaphthene	ug/kg	200	U	190	U	200	U	200	U
Acenaphthylene	ug/kg	200	U	190	U	200	U	200	U
Acetophenone	ug/kg	200	U	190	U	200	U	200	U
Anthracene	ug/kg	200	U	190	U	200	U	30	J
Atrazine	ug/kg	200	U	190	U	200	U	200	U
Benzaldehyde	ug/kg	200	U	190	U	200	U	200	U

Table A.1-3. Samples of Other Processed Materials Near the Historic Smelter

		Crushed material behind wood cribbing		Crushed, oxidized material		Former Roaster Area		Fine calcine-like material	
		OK512-SL-001 7/19/2007 8:25 discrete 0 to 12 in.		OK520-SL-001 7/19/2007 9:55 discrete 0 to 6 in.		OK552-WA-001 7/18/2007 13:10 discrete 0 to 6 in.		OK555-WA-001 7/18/2007 11:25 disrete 0 to 6 in.	
		Total		*Total*		*Total*		*Total*	
Benzo(a)Anthracene	ug/kg	200	U	190	UJ	200	U	130	J
Benzo(b)Fluoranthene	ug/kg	26	J	190	U	200	U	130	J
Benzo(ghi)Perylene	ug/kg	200	U	190	U	200	U	64	J
Benzo(k)Fluoranthene	ug/kg	30	J	190	U	200	UJ	130	J
Benzo-a-Pyrene	ug/kg	200	U	190	U	200	U	110	J
Benzyl Butyl Phthalate	ug/kg	200	U	190	U	200	U	200	U
bis(2-Chloroethoxy)Methane	ug/kg	200	U	190	U	200	U	200	U
bis(2-Chloroethyl) Ether	ug/kg	200	U	190	U	200	U	200	U
bis(2-Chloroisopropyl) Ether	ug/kg	200	U	190	U	200	U	200	U
bis(2-Ethylhexyl) Phthalate	ug/kg	200	U	190	U	200	U	200	U
Caprolactam	ug/kg	200	U	190	U	200	U	200	U
Carbazole	ug/kg	200	U	190	U	200	U	200	U
Chrysene	ug/kg	200	U	190	UJ	200	U	120	J
Dibenzo(a,h)Anthracene	ug/kg	200	U	190	U	200	U	200	U
Dibenzofuran	ug/kg	200	U	190	U	200	U	200	U
Diethyl Phthalate	ug/kg	200	U	190	U	200	U	200	U
Dimethyl Phthalate	ug/kg	200	U	190	U	200	U	200	U
Di-n-Butylphthalate	ug/kg	200	U	190	U	200	U	200	U
Di-n-Octylphthalate	ug/kg	200	U	190	U	200	U	200	U
Fluoranthene	ug/kg	57	J	190	UJ	200	U	250	
Fluorene	ug/kg	200	U	190	U	200	U	200	U
Hexachlorobenzene (HCB)	ug/kg	200	U	190	U	200	U	200	U
Hexachlorobutadiene	ug/kg	200	U	190	U	200	U	200	U
Hexachlorocyclopentadiene (HCCP)	ug/kg	200	U	190	U	200	U	200	U
Hexachloroethane	ug/kg	200	U	190	U	200	U	200	U
Indeno (1,2,3-cd) Pyrene	ug/kg	200	U	190	U	200	U	86	J
Isophorone	ug/kg	200	U	190	U	200	U	200	U
Naphthalene	ug/kg	200	U	190	U	200	U	200	U
Nitrobenzene	ug/kg	200	U	190	U	200	U	200	U
n-Nitroso di-n-Propylamine	ug/kg	200	U	190	UJ	200	U	200	U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	200	U	190	U	200	U	200	U
Pentachlorophenol	ug/kg	380	U	380	U	390	U	390	U
Phenanthrene	ug/kg	200	U	190	U	200	U	150	J
Phenol	ug/kg	200	U	190	U	200	U	200	U
Pyrene	ug/kg	53	J	190	UJ	200	U	220	
Benzo-a-pyrene Equivalents	ug/kg	2.9	cal		U		U	146.0	cal

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.1-4. Soil Samples from Areas Around the Historic Smelter

		Roaster Area and Downslope			Inside Smelter Foundation	Downslope of Slag Piles			Near Former Adits	Adjacent to Tailings Impoundment	
		OK515-SL-001 7/19/2007 17:10 discrete 0 to 12 in.	OK551-SL-001 7/18/2007 13:45 discrete 0 to 6 in.	OK554-SL-001 7/18/2007 14:30 discrete 0 to 6 in.	OK553-SL-001 7/18/2007 15:45 discrete 0 to 12 in.	OK517-SL-001 7/19/2007 16:30 discrete 0 to 12 in.	OK517-SL-001D 7/19/2007 16:40 field dupe -001	OK518-SL-001 7/19/2007 15:10 discrete 0 to 12 in.	OK519-SL-001 7/19/2007 14:45 discrete 0 to 12 in.	OK300-SL-001 7/17/2007 17:25 discrete 0 to 6 in.	OK301-SL-001 7/17/2007 18:00 discrete 0 to 6 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
Metals											
Aluminum	mg/kg	24000 J	35000	15000	23000	13000 J	12000 J	20000 J	16000 J	24000	24000
Antimony	mg/kg	6.7 UJ	0.64 UJ	6.3 UJ	3.3 UJ	0.34 UJ	6.7 UJ	7 UJ	7.1 UJ	UR	UR
Arsenic	mg/kg	2 J	1.2 J	1.2 J	10 J	0.9 UJ	1.1 UJ	2.2 J	1.4 J	3.5 J	2.5 J
Barium	mg/kg	67 J	100	31 UJ	120	47 J	56 J	140 J	26 J	63	110
Beryllium	mg/kg	0.47 UJ	0.85	0.35 UJ	0.59 UJ	0.29 UJ	0.26 UJ	0.39 UJ	0.4 UJ	0.65	0.8
Cadmium	mg/kg	0.55 U	0.57 U	0.52 J	0.21 UJ	0.58 U	0.56 U	0.58 U	0.59 U	0.57 U	0.58 U
Calcium	mg/kg	62 UJ	660 J	910	810 J	130 J	87 J	950 J	61 UJ	120 J	150 J
Chromium	mg/kg	25 J	42	23	22	18 J	15 J	33 J	21 J	24	25
Cobalt	mg/kg	8.8 J	20	11	18	3.1 UJ	3.3 UJ	9.6 J	6.5 J	5.7	9
Copper	mg/kg	160 J	300 J	290 J	680 J	86 J	90 J	290 J	120 J	62 J	33 J
Iron	mg/kg	32000 J	51000 J	30000 J	35000 J	36000 J	37000 J	110000 J	36000 J	31000 J	28000 J
Lead	mg/kg	11 J	17 J	15 J	37 J	8.1 J	8.4 J	12 J	17 J	13 J	12 J
Magnesium	mg/kg	2600 J	4600 J	1600 J	1800 J	1800 J	1600 J	2800 J	1700 J	1600 J	2500 J
Manganese	mg/kg	230 J	480	220	310	97 J	120 J	390 J	200 J	100 J	230 J
Mercury	mg/kg	0.057 UJ	0.045 UJ	0.043 UJ	0.76	0.064 UJ	0.06 UJ	0.052 UJ	0.15	0.047 UJ	0.08 UJ
Nickel	mg/kg	11 J	19 J	7.6 J	14 J	6.1 J	5.3 J	10 J	5 J	8.5 J	14 J
Potassium	mg/kg	2600 J	5100 J	1200 J	3200 J	2100 J	1900 J	4100 J	2000 J	1400	2600
Selenium	mg/kg	3.9 UJ	4 U	0.36 UJ	4.3 U	1.1 UJ	1.7 UJ	9.4 J	0.3 UJ	R	R
Silver	mg/kg	1.1 U	1.1 U	1 U	0.13 J	1.2 U	1.1 U	0.36 J	1.2 U	1.1 U	1.2 U
Sodium	mg/kg	550 U	15 UJ	520 U	150 UJ	580 U	560 U	30 UJ	590 U	570 U	580 U
Thallium	mg/kg	2.8 U	2.8 UJ	2.6 UJ	3.1 UJ	2.9 U	2.8 U	2.9 U	3 U	2.9 UJ	2.9 UJ
Vanadium	mg/kg	41 J	52	25	37	30 J	28 J	46 J	42 J	38	43
Zinc	mg/kg	79 J	180 J	72 J	150 J	44 J	48 J	170 J	32 J	57 J	67 J
Percent Solids	%	84	86	91	82	86	84	85	80	82	80
Acid-Base Accounting Parameters											
Paste pH	Std units		4.83	5.29	5.22					4.39	4.41
Sulfur, Total	%		0.12	0.20	0.07					0.12	0.04
Sulfur, Sulfate (HCl extractable)	%		0.07 J	0.09 J	0.05 J					0.10	0.03
Sulfur, Pyritic (HNO3 extractable)	%		0.03	0.09	0.02					0.02	0.01
Sulfur, Residual (non-extractable)	%		0.02	0.02	0.01 U					0.01 U	0.01 U
Acid Neutralization Potential	ton/kton		4.7	16	0.3 U					0.3 U	0.3 U
Acid Generation Potential	ton/kton		1.6 cal	3.4 cal	0.6 cal					0.6 cal	0.3 cal
Net Neutralizing Potential	ton/kton		3.1 cal	12.6 cal	-0.3 cal					-0.3 cal	0.0 cal
Neutralizing Potential Ratio			3.0 cal	4.7 cal	0.5 cal					0.5 cal	1.0 cal
Polychlorinated Biphenyl Compounds											
% Moisture	%		7	21	11					27	21
Aroclor 1016	ug/kg		35 U	42 UJ	37 U					45 U	42 U
Aroclor 1221	ug/kg		35 U	42 UJ	37 U					45 U	42 U
Aroclor 1232	ug/kg		35 U	42 UJ	37 U					45 U	42 U
Aroclor 1242	ug/kg		35 U	42 UJ	37 U					45 U	42 U
Aroclor 1248	ug/kg		35 U	42 UJ	37 U					45 U	42 U
Aroclor 1254	ug/kg		35 U	42 UJ	37 U					45 U	42 U
Aroclor 1260	ug/kg		35 U	42 UJ	37 U					45 U	42 U
Aroclor 1262	ug/kg		35 U	42 UJ	37 U					45 U	42 U
Aroclor 1268	ug/kg		35 U	42 UJ	37 U					45 U	42 U
Semivolatile Organic Compounds											
% Moisture	%	16	7	21	11	12	15	14	24	27	21
(3-and/or 4-)Methylphenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
1,1-Biphenyl	ug/kg	200 U	180 U	210 U	190 U	190 U	200 UJ	190 U	220 U	230 U	210 U
1,2,4,5-Tetrachlorobenzene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2,3,4,6-Tetrachlorophenol	ug/kg	200 U	180 UJ	210 U	190 U	190 U	200 U	190 U	220 U	230 UJ	210 U
2,4,5-Trichlorophenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2,4,6-Trichlorophenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2,4-Dichlorophenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2,4-Dimethylphenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2,4-Dinitrophenol	ug/kg	380 U	350 U	420 U	360 U	360 U	380 U	380 U	420 U	450 U	410 U
2,4-Dinitrotoluene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2,6-Dinitrotoluene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2-Chloronaphthalene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2-Chlorophenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2-Methyl-4,6-Dinitrophenol	ug/kg	380 U	350 U	420 U	360 U	360 U	380 U	380 U	420 U	450 U	410 U
2-Methylnaphthalene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2-Methylphenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
2-Nitroaniline	ug/kg	380 U	350 U	420 U	360 U	360 U	380 U	380 U	420 U	450 U	410 U
2-Nitrophenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
3,3'-Dichlorobenzidine	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
3-Nitroaniline	ug/kg	380 U	350 U	420 U	360 U	360 U	380 U	380 U	420 U	450 U	410 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
4-Chloro-3-Methylphenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
4-Chloroaniline	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
4-Chlorophenyl Phenyl Ether	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
4-Nitroaniline	ug/kg	380 U	350 U	420 U	360 U	360 U	380 U	380 U	420 U	450 U	410 U
4-Nitrophenol	ug/kg	380 U	350 U	420 U	360 U	360 U	380 U	380 U	420 U	450 U	410 U
Acenaphthene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Acenaphthylene	ug/kg	200 U	180 U	33 J	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Acetophenone	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Anthracene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Atrazine	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Benzaldehyde	ug/kg	200 U	180 U	210 U	150 J	190 U	200 U	32 J	220 U	230 U	210 U
Benzo(a)Anthracene	ug/kg	200 U	180 U	150 J	53 J	190 U	200 UJ	190 U	220 U	230 U	210 U
Benzo(b)Fluoranthene	ug/kg	200 U	180 U	190 J	120 J	190 U	200 U	190 U	220 U	230 U	210 UJ
Benzo(ghi)Perylene	ug/kg	200 U	180 U	140 J	110 J	190 U	200 U	190 U	220 U	230 U	210 U
Benzo(k)Fluoranthene	ug/kg	200 UJ	180 UJ	200 J	110 J	190 UJ	200 UJ	190 UJ	220 UJ	230 UJ	210 U
Benzo-a-Pyrene	ug/kg	200 U	180 U	200 J	87 J	190 U	200 U	190 U	220 U	230 U	210 U
Benzyl Butyl Phthalate	ug/kg	200 U	180 U	210 U	190 U	190 U	200 UJ	190 U	220 U	230 U	210 U
bis(2-Chloroethoxy)Methane	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
bis(2-Chloroethyl) Ether	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
bis(2-Chloroisopropyl) Ether	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
bis(2-Ethylhexyl) Phthalate	ug/kg	200 U	180 U	210 U	190 U	190 U	200 UJ	190 U	220 U	230 U	210 U
Caprolactam	ug/kg	200 U	180 U	210 U	190 U	190 U	200 UJ	190 U	220 U	230 U	210 U
Carbazole	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Chrysene	ug/kg	200 U	180 U	150 J	75 J	190 U	200 UJ	190 U	220 U	230 U	210 U
Dibenzo(a,h)Anthracene	ug/kg	200 U	180 U	31 J	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Dibenzofuran	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Diethyl Phthalate	ug/kg	200 U	180 U	210 U	190 U	190 U	200 UJ	190 U	220 U	230 U	210 U
Dimethyl Phthalate	ug/kg	200 U	180 U	210 U	190 U	190 U	200 UJ	190 U	220 U	230 U	210 U
Di-n-Butylphthalate	ug/kg	200 U	180 U	210 U	190 U	190 U	200 UJ	190 U	220 U	230 U	210 U
Di-n-Octylphthalate	ug/kg	200 UJ	180 U	210 UJ	190 UJ	190 UJ	200 UJ	190 UJ	220 UJ	230 U	210 UJ
Fluoranthene	ug/kg	200 U	180 U	160 J	110 J	190 U	200 UJ	190 U	220 U	230 U	210 U
Fluorene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Hexachlorobenzene (HCB)	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Hexachlorobutadiene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Hexachlorocyclopentadiene (HCCP)	ug/kg	200 UJ	180 U	210 U	190 U	190 UJ	200 UJ	190 UJ	220 UJ	230 U	210 U
Hexachloroethane	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Indeno (1,2,3-cd) Pyrene	ug/kg	200 U	180 U	130 J	99 J	190 U	200 U	190 U	220 U	230 U	210 U
Isophorone	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Naphthalene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Nitrobenzene	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
n-Nitroso di-n-Propylamine	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Pentachlorophenol	ug/kg	380 U	350 U	420 U	360 U	360 U	380 U	380 U	420 U	450 U	410 U
Phenanthrene	ug/kg	200 U	180 U	210 U	54 J	190 U	200 U	190 U	220 U	230 U	210 U
Phenol	ug/kg	200 U	180 U	210 U	190 U	190 U	200 U	190 U	220 U	230 U	210 U
Pyrene	ug/kg	200 U	180 U	130 J	90 J	190 UJ	200 UJ	190 U	220 U	230 U	210 U
Benzo-a-pyrene Equivalents	ug/kg	U	U	249.2 cal	115.4 cal	U	U	U	U	U	U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.1-5. Soil Samples Collected from the 1950s Mill Area

		Transformer Building Area		Ore Bins Area			Flotation Plant Area				Former Electrical Shop Area		Freshwater Pond Area		Downslope Erosional Area
		OK411-SL-001	OK412-SL-001	OK415-SL-001	OK427-SD-001	OK418-SL-001	OK417-SL-001	OK414-SL-001	OK414-SL-001D	OK413-SL-001	OK416-SL-001	OK419-SL-001	OK424-SL-001	OK425-SL-001	OK421-SL-001
		7/17/2007	7/17/2007	7/17/2007	7/17/2007	7/18/2007	7/17/2007	7/18/2007	7/18/2007	7/18/2007	7/18/2007	7/18/2007	7/19/2007	7/19/2007	7/19/2007
		9:45	10:25	16:25	16:40	9:15	17:35	9:50	9:50	11:35	12:45	12:20	10:15	8:35	14:45
		discrete	discrete	discrete	discrete	discrete	discrete	discrete	field dupe -001	discrete	discrete	discrete	discrete	discrete	discrete
		0 to 6 in.	0 to 6 in.	0 to 4 in.	0 to 4 in.	0 to 6 in.	0 to 6 in.			0 to 4 in.	0 to 3 in.	0 to 6 in.	0 to 18 in.	0 to 6 in.	0 to 6 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
Metals															
Aluminum	mg/kg	16000 J	15000 J	6200	11000	9300	14000 J	3600	9800	9600	7200	10000	6500	3800	4200 J
Antimony	mg/kg	UR	UR	UR	6.9 UJ	UR	UR	UR	UR	UR	UR	UR	UR	UR	1.1 UJ
Arsenic	mg/kg	1.1 J	R	2.4 J	150 J	R	1.6 J	14 J	28 J	R	R	R	0.54 J	3.1 UJ	1.5 UJ
Barium	mg/kg	75 J	87 J	140	73 J	62	200 J	240	280	41	37	79	67	70	41 J
Beryllium	mg/kg	0.8	0.73	0.32 J	0.13 UJ	0.53	0.36 UJ	0.13 UJ	0.24 UJ	0.33 UJ	0.32 UJ	0.58	0.25 J	R	0.089 UJ
Cadmium	mg/kg	0.56 UJ	R	0.76 J	1.4 UJ	0.52 U	0.82 J	1.3	19	0.6 U	0.6 U	0.52 U	0.6 UJ	3.9	0.76 U
Calcium	mg/kg	1100 J	850 J	150 J	2900 J	500 J	4800 J	21000 J	33000 J	190 J	220 J	700 J	1700	160 UJ	540 J
Chromium	mg/kg	16 J	17 J	20	120	11	55 J	22	64	11	9.9	12	14	17	16 J
Cobalt	mg/kg	9	15	3.9 UJ	71	7.2	22	310	680	4.7 J	4.7 J	8	13	15 U	7.5 UJ
Copper	mg/kg	140 J	280 J	510 J	6800 J	22 J	9600 J	1300 J	7700 J	26 J	29 J	19 J	1300 J	480 J	650 J
Iron	mg/kg	22000 J	23000 J	94000 J	170000 J	13000 J	48000 J	180000 J	210000 J	26000 J	18000 J	14000 J	38000 J	370000 J	16000 J
Lead	mg/kg	20 J	17 J	22 J	49 J	4.1 J	32 J	24 J	26 J	5.1 J	3.4 J	4.5 J	9.9 J	6.5 J	5.8 J
Magnesium	mg/kg	2600 J	2400 J	2200 J	1400 J	1900 J	5300 J	730 J	3700 J	1400 J	1700 J	2400 J	1900 J	570 J	1700 J
Manganese	mg/kg	390 J	390 J	130	510	300 J	290 J	150 J	460 J	200 J	83 J	330 J	810	51	150 J
Mercury	mg/kg	0.14	0.18	0.23	0.49 U	0.12	0.23	0.16	0.063 UJ	0.28	0.16	0.076 UJ	0.13	0.21 UJ	0.062 UJ
Nickel	mg/kg	5.7 J	5.4 J	3.7 UJ	40 J	7.5 J	18 J	14 J	68 J	6 J	5.6 J	8.8 J	6.3 J	1.9 UJ	3.3 UJ
Potassium	mg/kg	2100	2400	7200	670 J	1600	5500	11000	8100	1300	1600	2000	2100	1200 J	1800 J
Selenium	mg/kg	3.9 UJ	3.8 UJ	13 J	9.3 UJ	R	6.4 J	77 J	65 J	1.7 J	R	3.6 UJ	2.4 J	9.7 J	1.9 UJ
Silver	mg/kg	1.1 U	1.1 U	1.4	R	1 U	2.2	1.7 U	4.1	0.068 UJ	1.2 U	1 U	R	R	R
Sodium	mg/kg	550 U	540 U	400 J	66 UJ	520 U	710 U	1400	490 J	56 UJ	22 UJ	520 U	620 U	110 UJ	63 UJ
Thallium	mg/kg	2.8 UJ	2.7 UJ		12 UJ	2.6 UJ	3.6 UJ	4.2 UJ	4 UJ	3 UJ	3 UJ	2.6 UJ	3.1 U	7.7 U	3.8 U
Vanadium	mg/kg	25 J	26 J	40	45	21	33 J	24	90	21	19	23	19	27	15 J
Zinc	mg/kg	180 J	77 J	230 J	2700 J	47 J	490 J	350 J	1600 J	28 J	25 J	54 J	110 J	22 J	33 J
Percent Solids	%	89	92	86	20	91	66	59	63	77	77	94	76	31	65
Cyanide															
Total Cyanide	mg/kg			2.9 U	12 U	0.19 UJ		0.76 UJ	3.9 U	1.7	0.36 UJ	2.6 U	3.2 U	7.8 U	3.8 U
Acid-Base Accounting Parameters															
Paste pH	Std units												4.86	2.86	
Sulfur, Total	%												2.06	1.51	
Sulfur, Sulfate (HCl extractable)	%												1.17	1.01	
Sulfur, Pyritic (HNO3 extractable)	%												0.86	0.46	
Sulfur, Residual (non-extractable)	%												0.03	0.04	
Acid Neutralization Potential	ton/kton												0.3 U	0.3 U	
Acid Generation Potential	ton/kton												27.8 cal	15.6 cal	
Net Neutralizing Potential	ton/kton												-27.5 cal	-15.3 cal	
Neutralizing Potential Ratio													0.01 cal	0.02 cal	
Polychlorinated Biphenyl Compounds															
% Moisture	%	12	11	22	70	9	19	40	33	24	21	13	75	64	
Aroclor 1016	ug/kg	37 U	37 U	42 U	110 UJ	36 UJ	41 UJ	54 U	49 U	43 UJ	41 U	38 U	130 UJ	91 U	
Aroclor 1221	ug/kg	37 U	37 U	42 U	110 UJ	36 UJ	41 UJ	54 U	49 U	43 UJ	41 U	38 U	130 UJ	91 U	
Aroclor 1232	ug/kg	37 U	37 U	42 U	110 UJ	36 UJ	41 UJ	54 U	49 U	43 UJ	41 U	38 U	130 UJ	91 U	
Aroclor 1242	ug/kg	37 U	37 U	42 U	110 UJ	36 UJ	41 UJ	54 U	49 U	43 UJ	41 U	38 U	130 UJ	91 U	
Aroclor 1248	ug/kg	37 U	37 U	42 U	110 UJ	36 UJ	41 UJ	54 U	49 U	43 UJ	41 U	38 U	130 UJ	91 U	
Aroclor 1254	ug/kg	37 U	37 U	42 U	110 UJ	36 UJ	41 UJ	44 J	49 U	43 UJ	41 U	38 U	130 UJ	91 U	
Aroclor 1260	ug/kg	37 U	37 U	42 U	110 UJ	36 UJ	53 J	54 U	49 U	43 UJ	41 U	38 U	130 UJ	91 U	
Aroclor 1262	ug/kg	37 U	37 U	42 U	110 UJ	36 UJ	41 UJ	54 U	49 U	43 UJ	41 U	38 U	130 UJ	91 U	
Aroclor 1268	ug/kg	37 U	37 U	42 U	110 UJ	36 UJ	41 UJ	54 U	49 U	43 UJ	41 U	38 U	130 UJ	91 U	
Semivolatile Organic Compounds															
% Moisture	%	12	11	22	70	9	19	40	33	24	21	13	75	64	25
(3-and/or 4-)Methylphenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
1,1-Biphenyl	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 UJ	250 U	220 U	220 U	190 U	670 U	470 U	220 U
1,2,4,5-Tetrachlorobenzene	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2,3,4,6-Tetrachlorophenol	ug/kg	190 U	190 U	210 UJ	17000 U	5500 U	200 U	280 UJ	250 UJ	220 U	220 UJ	190 UJ	670 U	470 U	220 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2,4-Dinitrophenol	ug/kg	370 U	370 U	420 U	34000 U	11000 U	400 U	540 U	480 U	420 U	420 U	370 U	1300 U	910 U	430 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	210 U	17000 U	5500 UJ	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2-Chloronaphthalene	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2-Chlorophenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2-Methyl-4,6-Dinitrophenol	ug/kg	370 U	370 U	420 U	34000 U	11000 U	400 U	540 U	480 U	420 U	420 U	370 U	1300 U	910 U	430 U
2-Methylnaphthalene	ug/kg	190 U	190 U	210 U	17000 U	570 J	200 U	280 U	250 U	26 J	220 U	190 U	670 U	470 U	220 U
2-Methylphenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
2-Nitroaniline	ug/kg	370 U	370 U	420 U	34000 U	11000 U	400 U	540 U	480 U	420 U	420 U	370 U	1300 U	910 U	430 U
2-Nitrophenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
3,3'-Dichlorobenzidine	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 UJ	220 U	190 U	670 U	470 U	220 U
3-Nitroaniline	ug/kg	370 U	370 U	420 U	34000 U	11000 U	400 U	540 U	480 U	420 U	420 U	370 U	1300 U	910 U	430 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
4-Chloroaniline	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
4-Chlorophenyl Phenyl Ether	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
4-Nitroaniline	ug/kg	370 U	370 U	420 U	34000 U	11000 U	400 U	540 U	480 U	420 U	420 U	370 U	1300 U	910 U	430 U
4-Nitrophenol	ug/kg	370 U	370 U	420 U	34000 U	11000 U	400 U	540 U	480 U	420 U	420 U	370 U	1300 U	910 U	430 U
Acenaphthene	ug/kg	190 U	190 U	210 U	17000 U	5500 UJ	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Acenaphthylene	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Acetophenone	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Anthracene	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Atrazine	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Benzaldehyde	ug/kg	44 J	190 U	210 U	17000 U	580 J	200 U	280 U	250 U	50 J	220 U	190 U	670 U	470 U	220 U
Benzo(a)Anthracene	ug/kg	69 J	190 U	210 U	17000 UJ	5500 UJ	200 U	280 U	250 U	220 UJ	180 J	190 U	670 U	470 U	46 J
Benzo(b)Fluoranthene	ug/kg	190 J	31 J	36 J	17000 U	5500 U	34 J	280 U	250 U	220 UJ	310	190 U	670 U	470 U	42 J
Benzo(ghi)Perylene	ug/kg	40 J	86 J	27 J	17000 U	5500 U	200 U	280 U	250 U	220 UJ	180 J	190 U	670 U	470 U	220 U
Benzo(k)Fluoranthene	ug/kg	170 J	190 UJ	26 J	17000 UJ	5500 UJ	35 J	280 UJ	250 UJ	220 UJ	260 J	190 UJ	670 U	470 U	50 J
Benzo-a-Pyrene	ug/kg	60 J	190 U	29 J	17000 U	5500 U	200 U	280 U	250 U	220 UJ	260	190 U	670 U	470 U	48 J
Benzyl Butyl Phthalate	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 UJ	250 U	220 UJ	220 U	190 U	670 U	470 U	220 U
bis(2-Chloroethoxy)Methane	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
bis(2-Chloroethyl) Ether	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
bis(2-Chloroisopropyl) Ether	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
bis(2-Ethylhexyl) Phthalate	ug/kg	42 J	190 U	210 U	17000 UJ	5500 UJ	200 U	280 UJ	250 U	220 UJ	220 U	370	670 U	470 U	220 U
Caprolactam	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 UJ	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Carbazole	ug/kg	34 J	190 U	210 U	17000 UJ	5500 UJ	200 U	280 UJ	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Chrysene	ug/kg	200	190 U	210 U	17000 UJ	5500 UJ	200 U	280 U	250 U	220 UJ	230	190 U	670 U	470 U	51 J
Dibenzo(a,h)Anthracene	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 UJ	45 J	190 U	670 U	470 U	220 U
Dibenzofuran	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Diethyl Phthalate	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 UJ	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Dimethyl Phthalate	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 UJ	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Di-n-Butylphthalate	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 UJ	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Di-n-Octylphthalate	ug/kg	190 UJ	190 U	210 U	17000 UJ	5500 UJ	200 UJ	280 UJ	250 U	220 UJ	220 U	190 U	670 U	470 U	220 U
Fluoranthene	ug/kg	390	190 U	210 U	17000 U	5500 UJ	200 U	280 U	250 U	220 U	380	190 U	670 U	470 U	72 J
Fluorene	ug/kg	190 U	190 U	210 U	17000 UJ	5500 UJ	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Hexachlorobenzene (HCB)	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Hexachlorobutadiene	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Hexachlorocyclopentadiene (HCCP)	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Hexachloroethane	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Indeno (1,2,3-cd) Pyrene	ug/kg	55 J	190 U	29 J	17000 U	5500 U	200 U	280 U	250 U	220 UJ	190 J	190 U	670 U	470 U	28 J
Isophorone	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Naphthalene	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Nitrobenzene	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
n-Nitroso di-n-Propylamine	ug/kg	190 U	190 U	210 U	17000 U	5500 UJ	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Pentachlorophenol	ug/kg	370 U	370 U	420 U	34000 U	11000 U	400 U	540 U	480 U	420 U	420 U	370 U	1300 U	910 U	430 U

Table A.1-5. Soil Samples Collected from the 1950s Mill Area

		Transformer Building Area		Ore Bins Area			Flotation Plant Area				Former Electrical Shop Area		Freshwater Pond Area		Downslope Erosional Area
		OK411-SL-001 7/17/2007 9:45 discrete 0 to 6 in.	OK412-SL-001 7/17/2007 10:25 discrete 0 to 6 in.	OK415-SL-001 7/17/2007 16:25 discrete	OK427-SD-001 7/17/2007 16:40 discrete 0 to 4 in.	OK418-SL-001 7/18/2007 9:15 discrete 0 to 6 in.	OK417-SL-001 7/17/2007 17:35 discrete 0 to 6 in.	OK414-SL-001 7/18/2007 9:50 discrete	OK414-SL-001D 7/18/2007 9:50 field dupe -001	OK413-SL-001 7/18/2007 11:35 discrete 0 to 4 in.	OK416-SL-001 7/18/2007 12:45 discrete 0 to 3 in.	OK419-SL-001 7/18/2007 12:20 discrete 0 to 6 in.	OK424-SL-001 7/19/2007 10:15 discrete 0 to 18 in.	OK425-SL-001 7/19/2007 8:35 discrete 0 to 6 in.	OK421-SL-001 7/19/2007 14:45 discrete 0 to 6 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
Phenanthrene	ug/kg	110 J	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	110 J	150 J	190 U	670 U	470 U	220 U
Phenol	ug/kg	190 U	190 U	210 U	17000 U	5500 U	200 U	280 U	250 U	220 U	220 U	190 U	670 U	470 U	220 U
Pyrene	ug/kg	270	190 U	210 U	17000 UJ	5500 UJ	200 U	280 U	250 U	220 UJ	390	190 U	670 U	470 U	70 J
Benzo-a-pyrene Equivalents	ug/kg	93.3 cal	3.1 cal	35.8 cal	U	U	3.8 cal	U	U	U	330.8 cal	U	U	U	60.2 cal
Volatile Organic Compounds															
% Moisture	%							34	6		20	20		10	
1,1,1-Trichloroethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,1,2,2-Tetrachloroethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,1,2-Trichloroethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,1-Dichloroethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,1-Dichloroethene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,2,3-Trichlorobenzene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,2,4-Trichlorobenzene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,2-Dibromo-3-chloropropane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,2-Dibromoethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,2-Dichlorobenzene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,2-Dichloroethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,2-Dichloropropane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,3-Dichlorobenzene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,4-Dichlorobenzene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
1,4-Dioxane	ug/kg							140 U	99 U		150 U	150 U		170 U	
2-Butanone	ug/kg							14 U	9.9 U		15 U	15 U		17 U	
2-Hexanone	ug/kg							14 U	9.9 U		15 U	15 U		17 U	
4-Methyl-2-pentanone	ug/kg							14 U	9.9 U		15 U	15 U		17 U	
Acetone	ug/kg							14 U	9.9 U		15 U	15 U		17 U	
Benzene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Bromochloromethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Bromodichloromethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Bromoform	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Bromomethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Carbon disulfide	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Carbon tetrachloride	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Chlorobenzene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Chloroethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Chloroform	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Chloromethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
cis-1,2-Dichloroethene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
cis-1,3-Dichloropropene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Cyclohexane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Dibromochloromethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Dichlorodifluoromethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Ethylbenzene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Isopropylbenzene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
m,p-Xylene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Methyl acetate	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Methyl tert-butyl ether	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Methylcyclohexane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Methylene chloride	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
o-Xylene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Styrene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Tetrachloroethene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Toluene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
trans-1,2-Dichloroethene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
trans-1,3-Dichloropropene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Trichloroethene	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Trichlorofluoromethane	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	
Vinyl Chloride	ug/kg							6.8 U	5 U		7.3 U	7.3 U		8.5 U	

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.1-6. TCLP Sampling

		OK557-WA-001 7/18/2007 16:55 discrete 0 to 2 in.		OK557-WA-001-EX 7/18/2007 16:55 Extraction Fluid	
		Total		*Total*	
TCLP Metals					
Arsenic	ug/L	6.5	B	9.6	B
Barium	ug/L	205	J	0.82	J
Cadmium	ug/L	7.4	J	0.3	U
Chromium	ug/L	2.4	B	0.4	U
Lead	ug/L	2.4	U	2.4	U
Mercury	ug/L	0.9	J		R
Selenium	ug/L	3.9	U	3.9	U
Silver	ug/L	0.68	J	0.4	U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
B-either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
R-Data were rejected and considered unusable.
cal-value was calculated

Table A.2-1. Soil Samples Collected from Background Areas Surrounding the Mine Site

		Soils Around the 1950's Mill Area			Soils Around the Historic Smelter and Mine Shafts		
		OK400-SL-001 7/17/2007 12:05 discrete 0 to 6 in.	OK401-SL-001 7/17/2007 11:00 discrete 0 to 6 in.	OK402-SL-001 7/17/2007 12:35 discrete 0 to 6 in.	OK500-SL-001 7/19/2007 17:30 discrete 0 to 12 in.	OK501-SL-001 7/19/2007 11:45 discrete 0 to 6 in.	OK502-SL-001 7/19/2007 18:10 discrete 0 to 12 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*
Metals							
Aluminum	mg/kg	14000 J	16000 J	13000 J	14000 J	19000	1700 J
Antimony	mg/kg	UR	UR	UR	7.4 UJ	UR	7.5 UJ
Arsenic	mg/kg	R	1.8 J	R	2.2 J	R	3.5 J
Barium	mg/kg	51 J	63 J	70 J	33 J	75	110 J
Beryllium	mg/kg	0.57 UJ	0.63	0.67	0.41 UJ	1.2	0.63 U
Cadmium	mg/kg	0.6 UJ	0.59 UJ	0.62 UJ	0.61 U	0.64 UJ	0.63 U
Calcium	mg/kg	79 UJ	200 UJ	470 J	90 J	130 UJ	300 J
Chromium	mg/kg	16 J	15 J	13 J	17 J	16	9.6 J
Cobalt	mg/kg	6.7	7.2	6.2	3.3 UJ	10	5 UJ
Copper	mg/kg	16 J	36 J	43 J	23 J	34 J	79 J
Iron	mg/kg	15000 J	15000 J	13000 J	22000 J	18000 J	90000 J
Lead	mg/kg	7.9 J	13 J	8 J	11 J	12 J	10 J
Magnesium	mg/kg	1500 J	1400 J	1900 J	550 J	2600 J	320 J
Manganese	mg/kg	80 J	410 J	580 J	82 J	420	130 J
Mercury	mg/kg	0.13 U	0.07 UJ	0.046 UJ	0.05 UJ	0.1 UJ	0.11 U
Nickel	mg/kg	6.2 J	6 J	5.6 J	4 UJ	7 J	3.3 UJ
Potassium	mg/kg	1100	720	1300	290 J	1300	4000 J
Selenium	mg/kg	0.26 J		4.3 UJ	0.66 UJ	4.4 UJ	23 J
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	0.79 J
Sodium	mg/kg	600 U	20 UJ	620 U	38 UJ	640 U	380 J
Thallium	mg/kg	3 UJ	3 UJ	3.1 UJ	3.1 U	3.2 U	3.1 U
Vanadium	mg/kg	26 J	25 J	20 J	22 J	23	28 J
Zinc	mg/kg	28 J	31 J	34 J	26 J	51 J	120 J
Percent Solids	%	77	84	78	81	78	76
Polychlorinated Biphenyl Compounds							
% Moisture	%	23	16	21			
Aroclor 1016	ug/kg	43 U	39 U	42 U		UR	
Aroclor 1221	ug/kg	43 U	39 U	42 U		UR	
Aroclor 1232	ug/kg	43 U	39 U	42 U		UR	
Aroclor 1242	ug/kg	43 U	39 U	42 U		UR	
Aroclor 1248	ug/kg	43 U	39 U	42 U		UR	
Aroclor 1254	ug/kg	43 U	39 U	42 U		UR	
Aroclor 1260	ug/kg	43 U	39 U	42 U		UR	
Aroclor 1262	ug/kg	43 U	39 U	42 U		UR	
Aroclor 1268	ug/kg	43 U	39 U	42 U		UR	
Semivolatile Organic Compounds							
% Moisture	%	23	16	21	16	22	12
(3-and/or 4-)Methylphenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
1,1-Biphenyl	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
1,2,4,5-Tetrachlorobenzene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2,3,4,6-Tetrachlorophenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2,4,5-Trichlorophenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2,4,6-Trichlorophenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2,4-Dichlorophenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2,4-Dimethylphenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2,4-Dinitrophenol	ug/kg	430 U	390 U	420 U	380 U	420 U	370 U
2,4-Dinitrotoluene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2,6-Dinitrotoluene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2-Chloronaphthalene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2-Chlorophenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2-Methyl-4,6-Dinitrophenol	ug/kg	430 U	390 U	420 U	380 U	420 U	370 U
2-Methylnaphthalene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2-Methylphenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
2-Nitroaniline	ug/kg	430 U	390 U	420 U	380 U	420 U	370 U
2-Nitrophenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
3,3'-Dichlorobenzidine	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
3-Nitroaniline	ug/kg	430 U	390 U	420 U	380 U	420 U	370 U
4-Bromophenyl Phenyl Ether	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
4-Chloro-3-Methylphenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
4-Chloroaniline	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
4-Chlorophenyl Phenyl Ether	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
4-Nitroaniline	ug/kg	430 U	390 U	420 U	380 U	420 U	370 U
4-Nitrophenol	ug/kg	430 U	390 U	420 U	380 U	420 U	370 U
Acenaphthene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Acenaphthylene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Acetophenone	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Anthracene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Atrazine	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Benzaldehyde	ug/kg	220 U	120 J	220 U	200 U	220 U	190 U
Benzo(a)Anthracene	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
Benzo(b)Fluoranthene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Benzo(ghi)Perylene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Benzo(k)Fluoranthene	ug/kg	220 UJ	200 UJ	220 UJ	200 UJ	220 U	190 UJ
Benzo-a-Pyrene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Benzyl Butyl Phthalate	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
bis(2-Chloroethoxy)Methane	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
bis(2-Chloroethyl) Ether	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
bis(2-Chloroisopropyl) Ether	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
bis(2-Ethylhexyl) Phthalate	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
Caprolactam	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
Carbazole	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Chrysene	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
Dibenzo(a,h)Anthracene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Dibenzofuran	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Diethyl Phthalate	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
Dimethyl Phthalate	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
Di-n-Butylphthalate	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
Di-n-Octylphthalate	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 UJ
Fluoranthene	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
Fluorene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Hexachlorobenzene (HCB)	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Hexachlorobutadiene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Hexachlorocyclopentadiene (HCCP)	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 UJ
Hexachloroethane	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Indeno (1,2,3-cd) Pyrene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Isophorone	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Naphthalene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Nitrobenzene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
n-Nitroso di-n-Propylamine	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Pentachlorophenol	ug/kg	430 U	390 U	420 U	380 U	420 U	370 U
Phenanthrene	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Phenol	ug/kg	220 U	200 U	220 U	200 U	220 U	190 U
Pyrene	ug/kg	220 U	200 U	220 U	200 UJ	220 U	190 U
Benzo-a-pyrene Equivalents	ug/kg	U	U	U	U	U	U
Volatile Organic Compounds							
% Moisture	%	23	14	21			
1,1,1-Trichloroethane	ug/kg	9.8 U	6.8 U	8.4 U			
1,1,2,2-Tetrachloroethane	ug/kg	9.8 U	6.8 U	8.4 U			
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	9.8 U	6.8 U	8.4 U			
1,1,2-Trichloroethane	ug/kg	9.8 U	6.8 U	8.4 U			
1,1-Dichloroethane	ug/kg	9.8 U	6.8 U	8.4 U			
1,1-Dichloroethene	ug/kg	9.8 U	6.8 U	8.4 U			
1,2,3-Trichlorobenzene	ug/kg	9.8 U	6.8 U	8.4 U			
1,2,4-Trichlorobenzene	ug/kg	9.8 U	6.8 U	8.4 U			
1,2-Dibromo-3-chloropropane	ug/kg	9.8 U	6.8 U	8.4 U			
1,2-Dibromoethane	ug/kg	9.8 U	6.8 U	8.4 U			
1,2-Dichlorobenzene	ug/kg	9.8 U	6.8 U	8.4 U			
1,2-Dichloroethane	ug/kg	9.8 U	6.8 U	8.4 U			
1,2-Dichloropropane	ug/kg	9.8 U	6.8 U	8.4 U			
1,3-Dichlorobenzene	ug/kg	9.8 U	6.8 U	8.4 U			
1,4-Dichlorobenzene	ug/kg	9.8 U	6.8 U	8.4 U			
1,4-Dioxane	ug/kg	200 U	140 U	170 U			
2-Butanone	ug/kg	20 U	14 U	17 U			

Table A.2-1. Soil Samples Collected from Background Areas Surrounding the Mine Site

		Soils Around the 1950's Mill Area			Soils Around the Historic Smelter and Mine Shafts		
		OK400-SL-001 7/17/2007 12:05 discrete 0 to 6 in.	OK401-SL-001 7/17/2007 11:00 discrete 0 to 6 in.	OK402-SL-001 7/17/2007 12:35 discrete 0 to 6 in.	OK500-SL-001 7/19/2007 17:30 discrete 0 to 12 in.	OK501-SL-001 7/19/2007 11:45 discrete 0 to 6 in.	OK502-SL-001 7/19/2007 18:10 discrete 0 to 12 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*
2-Hexanone	ug/kg	20 U	14 U	17 U			
4-Methyl-2-pentanone	ug/kg	20 U	14 U	17 U			
Acetone	ug/kg	20 U	17	29			
Benzene	ug/kg	9.8 U	6.8 U	8.4 U			
Bromochloromethane	ug/kg	9.8 U	6.8 U	8.4 U			
Bromodichloromethane	ug/kg	9.8 U	6.8 U	8.4 U			
Bromoform	ug/kg	9.8 U	6.8 U	8.4 U			
Bromomethane	ug/kg	9.8 U	6.8 U	8.4 U			
Carbon disulfide	ug/kg	9.8 U	6.8 U	8.4 U			
Carbon tetrachloride	ug/kg	9.8 U	6.8 U	8.4 U			
Chlorobenzene	ug/kg	9.8 U	6.8 U	8.4 U			
Chloroethane	ug/kg	9.8 U	6.8 U	8.4 U			
Chloroform	ug/kg	9.8 U	6.8 U	8.4 U			
Chloromethane	ug/kg	9.8 U	6.8 U	8.4 U			
cis-1,2-Dichloroethene	ug/kg	9.8 U	6.8 U	8.4 U			
cis-1,3-Dichloropropene	ug/kg	9.8 U	6.8 U	8.4 U			
Cyclohexane	ug/kg	9.8 U	6.8 U	8.4 U			
Dibromochloromethane	ug/kg	9.8 U	6.8 U	8.4 U			
Dichlorodifluoromethane	ug/kg	9.8 U	6.8 U	8.4 U			
Ethylbenzene	ug/kg	9.8 U	6.8 U	8.4 U			
Isopropylbenzene	ug/kg	9.8 U	6.8 U	8.4 U			
m,p-Xylene	ug/kg	9.8 U	6.8 U	8.4 U			
Methyl acetate	ug/kg	9.8 U	6.8 U	8.4 U			
Methyl tert-butyl ether	ug/kg	9.8 U	6.8 U	8.4 U			
Methylcyclohexane	ug/kg	9.8 U	6.8 U	8.4 U			
Methylene chloride	ug/kg	9.8 U	6.8 U	8.4 U			
o-Xylene	ug/kg	9.8 U	6.8 U	8.4 U			
Styrene	ug/kg	9.8 U	6.8 U	8.4 U			
Tetrachloroethene	ug/kg	9.8 U	6.8 U	8.4 U			
Toluene	ug/kg	9.8 U	6.8 U	8.4 U			
trans-1,2-Dichloroethene	ug/kg	9.8 U	6.8 U	8.4 U			
trans-1,3-Dichloropropene	ug/kg	9.8 U	6.8 U	8.4 U			
Trichloroethene	ug/kg	9.8 U	6.8 U	8.4 U			
Trichlorofluoromethane	ug/kg	9.8 U	6.8 U	8.4 U			
Vinyl Chloride	ug/kg	9.8 U	6.8 U	8.4 U			

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.3-1. Surface Water Samples Collected from the South Fork of the New River

		S. Fork New River 500 Feet Above Peak Creek		S. Fork New River 630 Feet Downstream of Peak Creek Confluence																S. Fork New River 1,550 Feet Downstream of Peak Creek Confluence						S. Fork New River 1,930 Feet Downstream of Peak Creek	
		OK020-SW-001		OK019-SW-001		OK019-SW-002		OK019-SW-003		OK019-SW-004		OK019-SW-005		OK019-SW-005D		OK026-SW-001		OK026-SW-002		OK026-SW-003		OK027-SW-001	
		7/19/2007		7/19/2007		7/19/2007		7/19/2007		7/19/2007		7/19/2007		7/19/2007		7/17/2007		7/17/2007		7/17/2007		7/19/2007	
		9:30		12:15		12:20		12:30		12:35		12:40		12:45		12:32		13:10		12:25		8:55	
		Center Channel		Left Channel		Left-Center Channel		Center Channel		Right-Center Channel		Right Channel		Field duplicate -005		Center Channel		Center Channel		Right Channel		Center Channel	
Metals		*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*
Aluminum	ug/L	315	50 U	257	50 U	298	57.1	245	50 U	175	56.8	240	63.5	282	77.4	152	52.3 J	113 J	52.8	134 J	54.2	322	44.3 B
Antimony	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Arsenic	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Barium	ug/L	15.5	12.2	12	10.2	12.1	10.6	11.6	10.5	12.1	10.1 N	13	11.5 N	12.2	11.6	12.3 J	10.8	11.5	9.6	12.6	10.8	15.8	13.6 N
Beryllium	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Cadmium	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Calcium	ug/L	5060	4400	4510	4740	4660	4730	4550	4980	5080	4530	5540	4930	4910	5400	4640	4450 J	4530 J	4790	4760 J	4720	5270	4780
Chromium	ug/L	1 U	1 U	1.6 B	1 U	1.4 B	1 U	1.4 B	1 U	1 U	1 U	1 U	1 U	1.4 B	1 U	1.6 B	5 U	5 U	1 B	5 U	1.3 B	1 U	1 U
Cobalt	ug/L	0.35 J	3.7 J	0.28 J	1.6 J	0.3 J	3.6 J	0.37 J	3.1 J	0.61 J	3.8 J	1.3 J	4.3 J	1.2 J	2.5 J	0.23 J	2.8 J	0.39 J	0.48 J	0.71 J	2 J	0.77 J	3.9 J
Copper	ug/L	1.7 J	0.97 J	1.6 J	1.3 J	1.5 J	1.2 J	1.6 J	1.4 J	2.3 J	2 J	3.8 J	2.7 J	3.5 J	3.1 J	1.2 J	1.1 J	1.8 J	1.5 J	2.3 J	1.9 J	2.6 J	1.8 J
Iron	ug/L	553	190	500	176	502	199	503	204	492	269	734	277	799	241	384 E	202	408	226	539	263	690	218
Lead	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Magnesium	ug/L	2230	1950	1920	2090	2040	2070	1830	2100	2120	1730	2200	1860	1960	2090	2020	1840 J	1820 J	1890	2080 J	1760	2170	2010
Manganese	ug/L	29.3 J	19.7 J	20.7 J	14.3 J	22.2 J	16 J	24.4 J	17.4 J	32.5 J	30.6 J	54.8 J	50.9 J	53.5 J	49.5 J	19.6 J	17.8 J	25.5 J	22.1 J	40.8 J	41 J	46.9 J	34 J
Mercury	ug/L	0.03 U	R	R	0.03 U	R	0.03 U	R	0.03 U	R	0.03 U	R	0.03 U	R	0.03 U	0.03 U	0.03 U	0.03 U	R	0.03 U	R	R	0.03 U
Molybdenum	ug/L	0.15 B	0.1 U	0.1 U	0.16 B	0.11 B	0.16 B	0.1 U	0.17 B	0.15 B	5 U	0.14 B	5 U	0.1 U	0.14 B	0.14 B	5 U	5 U	0.13 B	5 U	0.1 U	0.14 B	5 U
Nickel	ug/L	0.83 J	R	R	0.63 J	R	0.87 J	R	0.8 J	0.78 J	2.8 J	0.93 J	3.1 J	R	0.85 J	0.56 J	0.62 J	0.5 U	R	0.54 J	R	0.98 J	2.9 J
Potassium	ug/L	1400	1210	1350	1310	1340	1380	1230	1350	1390	1180	1500	1300	1240	1320	1240	1230	1350	1220	1350	1090	1450	1420
Selenium	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Silver	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Sodium	ug/L	5780	5340 J	5840 J	5570	5260 J	5370	5860 J	5740	5150	5130	5360	5520	4790 J	5120	5420	5430	5080	5900 J	4680	4720 J	5190	5390
Thallium	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.31 B	0.3 U	0.3 U	0.3 U	0.3 U
Vanadium	ug/L	3.8 B	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 B	3 U	3.3 B	3 U	3 U	3 U
Zinc	ug/L	9.2 J	2 U	22.3 J	2 UJ	2.7 J	2 UJ	2.4 J	2 UJ	3.1 J	3.8 J	6.5 J	4.8 J	6.9 J	7.3 J	2 U	2.5 J	5.6 J	2.2 J	6.2 J	3.9 J	3.9 J	4 J
Hardness	mg/L	21.8 cal	19.0 cal	19.2 cal	20.4 cal	20.0 cal	20.3 cal	18.9 cal	21.1 cal	21.4 cal	18.4 cal	22.9 cal	20.0 cal	20.3 cal	22.1 cal	19.9 cal	18.7 cal	18.8 cal	19.7 cal	20.4 cal	19.0 cal	22.1 cal	20.2 cal
General Chemistry																							
Acidity	mg/L	13.4		13.4		13.4		13.4		13.4		13.4		13.4		13.4		13.4		13.4		13.4	
Alkalinity	mg/L	18.1 J		14.1 J		17.6 J		18.1 J		15.1 J		14.6 J		13.6 J		17.1 J		17.1 J		14.1 J		15.6 J	
Chloride	mg/L	14.8 J		17.1 J		16.6 J		16.2 J		16.3 J		15.8 J		15.0 J		7.4		7.0		6.6		15.6 J	
Sulfate	mg/L	5 UJ		57.3 J		32.3 J		34.7 J		39.3 J		27.3 J		22.3 J		2.56 J		3.83 J		7.0 J		5 UJ	
Total Dissolved Solids	mg/L	56		56		87		52		60		49		5 J		54		65		54		64	
Total Suspended Solids	mg/L	3.7 J		2.4 J		2 J		2.8 J		3.1 J		3 J		3 J		1 J		1.5 J		1.7 J		5.5	
Field Parameters																							
Temperature	°C	23.4		25.5		25.5		25.4		25.2		24.7		NA		24.2		24.0		23.5		22.7	
pH	s.u.	7.52		8.73		8.78		8.73		8.47		7.60		NA		8.95		8.68		7.95		7.11	
Specific Conductance	uS/cm	70		70		70		70		71		72		NA		68		68		69		71	
Dissolved Oxygen	mg/L	7.5		8.9		8.9		9.0		9.0		8.9		NA		9.4		9.2		9.0		7.2	
Dissolved Oxygen Saturation	%	97		118		119		120		120		118		NA		NA		NA		116		91	
ORP (Redox Potential)	mV	71		4		29		33		13		30		NA		80		57		80		63	
Turbidity	NTU	7.4		4.8		5.0		5.0		4.9		4.9		NA		1.3		0.7		0.1		7.8	
Semivolatile Organic Compounds																							
(3-and/or 4-)Methylphenol	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
1,1-Biphenyl	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
1,2,4,5-Tetrachlorobenzene	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2,3,4,6-Tetrachlorophenol	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2,4,5-Trichlorophenol	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2,4,6-Trichlorophenol	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2,4-Dichlorophenol	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2,4-Dimethylphenol	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2,4-Dinitrophenol	ug/L	10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
2,4-Dinitrotoluene	ug/L	5 U		5 U		5 UJ		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 UJ	
2,6-Dinitrotoluene	ug/L	5 U		5 U		5 UJ		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2-Chloronaphthalene	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2-Chlorophenol	ug/L	5 U		5 U		5 UJ		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2-Methyl-4,6-Dinitrophenol	ug/L	10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
2-Methylnaphthalene	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2-Methylphenol	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2-Nitroaniline	ug/L	10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
2-Nitrophenol	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
3,3'-Dichlorobenzidine	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
3-Nitroaniline	ug/L	10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
4-Bromophenyl Phenyl Ether	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
4-Chloro-3-Methylphenol	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
4-Chloroaniline	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
4-Chlorophenyl Phenyl Ether	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
4-Nitroaniline	ug/L	10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
4-Nitrophenol	ug/L	10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
Acenaphthene	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 UJ	
Acenaphthylene	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Acetophenone	ug/L	5 U		5 U		5 UJ		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Anthracene	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Atrazine	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Benzaldehyde	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Benzo(a)Anthracene	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Benzo(b)Fluoranthene	ug/L	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Benzo(ghi)Perylene	ug/L	5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ	

Table A.3-1. Surface Water Samples Collected from the South Fork of the New River

		S. Fork New River 500 Feet Above Peak Creek	S. Fork New River 630 Feet Downstream of Peak Creek Confluence						S. Fork New River 1,550 Feet Downstream of Peak Creek Confluence			S. Fork New River 1,930 Feet Downstream of Peak Creek
		OK020-SW-001	OK019-SW-001	OK019-SW-002	OK019-SW-003	OK019-SW-004	OK019-SW-005	OK019-SW-005D	OK026-SW-001	OK026-SW-002	OK026-SW-003	OK027-SW-001
		7/19/2007	7/19/2007	7/19/2007	7/19/2007	7/19/2007	7/19/2007	7/19/2007	7/17/2007	7/17/2007	7/17/2007	7/19/2007
		9:30	12:15	12:20	12:30	12:35	12:40	12:45	12:32	13:10	12:25	8:55
		Center Channel	Left Channel	Left-Center Channel	Center Channel	Right-Center Channel	Right Channel	Field duplicate -005	Left Channel	Center Channel	Right Channel	Center Channel
Benzo(k)Fluoranthene	ug/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ
Benzo-a-Pyrene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzyl Butyl Phthalate	ug/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Chloroethoxy)Methane	ug/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Chloroethyl) Ether	ug/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Chloroisopropyl) Ether	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Ethylhexyl) Phthalate	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Caprolactam	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbazole	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenzo(a,h)Anthracene	ug/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Dibenzofuran	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Diethyl Phthalate	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl Phthalate	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-Butylphthalate	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-Octylphthalate	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluorene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobenzene (HCB)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobutadiene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene (HCCP)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	ug/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Indeno (1,2,3-cd) Pyrene	ug/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Isophorone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Nitrobenzene	ug/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
n-Nitroso di-n-Propylamine	ug/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
n-Nitrosodiphenylamine/Diphenylamine	ug/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Pentachlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Phenol	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.

J-Identification of analyte is acceptable; reported value is an estimate.

UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.

B-either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

E-difference of sample and sample duplicate is >10%

N-matrix spike sample recovery is not within specified control limits

R-Data were rejected and considered unusable.

UR-Nondetected value was rejected and considered unusable.

cal-value was calculated

Table A.3-2. Surface Water Samples Collected from Peak Creek

		Peak Creek Above Ore Knob Branch				Peak Creek 60 Feet Below Ore Knob Branch								Peak Creek 440 Feet Above Little Peak Creek				Peak Creek 1,700 Feet Above S. Fork New River							
		OK015-SW-001 7/18/2007 17:05 Center Channel				OK016-SW-001 7/18/2007 15:30 Left Channel				OK016-SW-002 7/18/2007 15:35 Center Channel				OK016-SW-003 7/18/2007 15:40 Right Channel				OK017-SW-001 7/18/2007 13:50 Center Channel				OK018-SW-001 7/18/2007 9:30 Left Channel			
Metals		*Total*		*Dissolved*		*Total*		*Dissolved*		*Total*		*Dissolved*		*Total*		*Dissolved*		*Total*		*Dissolved*		*Total*		*Dissolved*	
Aluminum	ug/L	258		33.4	J	633		504	J	439	J	211		231		21	J	545	J	445		533	J	371	
Antimony	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Arsenic	ug/L	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Barium	ug/L	15	J	11.7		13.8	J	12.2		13.1		12.6	J	13	J	11.9		17.7		17.8	J	19.8		19.8	J
Beryllium	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Cadmium	ug/L	0.1	U	0.1	U	0.15	J	0.15	B	0.1	U	0.1	U	0.1	U	0.1	U	0.11	B	0.11	J	0.13	B	0.15	J
Calcium	ug/L	2540		2480	J	9270		8750	J	5850	J	5670		2780		3770	J	7600	J	6770		6560	J	6940	
Chromium	ug/L	3	B	5	U	2.2	B	5	U	5	U	1.5	B	1.7	B	5	U	5	U	1.4	B	5	U	1.5	B
Cobalt	ug/L	0.23	J	2.9	J	8.5	J	10.8	J	4.6	J	5.1	J	0.58	J	3.4	J	7.2	J	6.3	J	7.4	J	7.9	J
Copper	ug/L	1.6	J	1.3	J	20.6	J	24.9	J	12.3	J	10.2	J	2.4	J	2.8	J	21.6	J	18	J	22.7	J	20.4	J
Iron	ug/L	315	E	103		12900	E	8270		7070		2930	E	930	E	1110		4440		2870	E	3070		1430	E
Lead	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Magnesium	ug/L	1070		909	J	2310		2400	J	1680	J	1570		1100		1220	J	2060	J	1900		1830	J	1850	
Manganese	ug/L	12.6	J	9.6	J	226	J	233	J	129	J	114	J	24	J	53.2	J	162	J	156	J	211	J	199	J
Mercury	ug/L	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
Molybdenum	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Nickel	ug/L	0.67	J	4.4	J	1.6	J	1.8	J	1	J	1	J	0.5	U	0.62	J	2.3	J	1.3	J	2.3	J	1.7	J
Potassium	ug/L	1050		1030		1770		1810		1390		1300		1000		1180		1660		1550		1440		1520	
Selenium	ug/L	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Silver	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Sodium	ug/L	2420		2280		2540		2560		2560		2710		2410		2350		2690		2370		2360		2330	
Thallium	ug/L	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Vanadium	ug/L	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
Zinc	ug/L	2.9	J	2.1	J	103	J	64.7	J	30.9	J	25.4	J	4.3	J	11.5	J	182	J	40.3	J	74.2	J	44.8	J
Hardness	mg/L	10.7	cal	9.9	cal	32.7	cal	31.7	cal	21.5	cal	20.6	cal	11.5	cal	14.4	cal	27.5	cal	24.7	cal	23.9	cal	24.9	cal
General Chemistry																									
Acidity	mg/L	13.4				43.0				13.4				13.4				16.1				16.1			
Alkalinity	mg/L	5.03	J			0.725	UJ			0.725	UJ			1.01	J			0.725	UJ			0.725	UJ		
Chloride	mg/L	2.7				2.5				2.7				2.6				2.4				2.5			
Sulfate	mg/L	2.65	J			100	J			47.1	J			12.6	J			55.6	J			52	J		
Total Dissolved Solids	mg/L	47				106				82				48				87				82			
Total Suspended Solids	mg/L	2.1	J			29.8				16				3.4	J			8.5				5	J		
Field Parameters																									
Temperature	°C	21.0				20.9				21.0				21.2				19.6				17.6			
pH	s.u.	7.14				3.69				4.04				5.92				3.90				3.93			
Specific Conductance	uS/cm	35				230				130				56				164				143			
Dissolved Oxygen	mg/L	7.9				8.2				8.2				8.2				8.4				8.7			
Dissolved Oxygen Saturation	%	97				102				102				101				104				102			
ORP (Redox Potential)	mV	47				460				425				131				411				410			
Turbidity	NTU	4.1				14.4				10.3				5.2				9.0				9.5			

		Peak Creek 1,700 Feet Above S. Fork New River							
		OK018-SW-002 7/18/2007 9:35 Center Channel				OK018-SW-003 7/18/2007 9:40 Right Channel			
Metals		*Total*		*Dissolved*		*Total*		*Dissolved*	
Aluminum	ug/L	504		404	J	575	J	313	
Antimony	ug/L	0.5	U	0.5	U	0.5	U	0.5	U
Arsenic	ug/L	1.5	U	1.5	U	1.5	U	1.5	U
Barium	ug/L	19.8	J	19.7		21.6		18.9	J
Beryllium	ug/L	0.1	U	0.1	U	0.1	U	0.1	U
Cadmium	ug/L	0.13	J	0.12	B	0.15	B	0.14	J
Calcium	ug/L	6150		6650	J	6870	J	6280	
Chromium	ug/L	1.3	B	5	U	5	U	1	U
Cobalt	ug/L	7.1	J	7.4	J	7.6	J	7.7	J
Copper	ug/L	21.7	J	22.1	J	23.4	J	22.4	J
Iron	ug/L	3030	E	2310		3370		1550	E
Lead	ug/L	0.5	U	0.5	U	0.5	U	0.5	U
Magnesium	ug/L	1730		1940	J	1980	J	1710	
Manganese	ug/L	178	J	192	J	187	J	175	J
Mercury	ug/L	0.03	U	0.03	U	0.03	U	0.03	U
Molybdenum	ug/L	0.1	U	0.1	U	0.1	U	0.1	U
Nickel	ug/L	1.7	J	1.5	J	1.9	J	1.6	J
Potassium	ug/L	1390		1670		1670		1470	
Selenium	ug/L	1.5	U	1.5	U	1.5	U	1.5	U
Silver	ug/L	0.2	U	0.2	U	0.2	U	0.2	U
Sodium	ug/L	2110		2370		2190		2220	
Thallium	ug/L	0.3	U	0.3	U	0.3	U	0.3	U
Vanadium	ug/L	3	U	3	U	3	U	3	U
Zinc	ug/L	46.9	J	44.4	J	46.6	J	45.3	J
Hardness	mg/L	22.5	cal	24.6	cal	25.3	cal	22.7	cal
General Chemistry									
Acidity	mg/L	18.8				16.1			
Alkalinity	mg/L	0.725	UJ			0.725	UJ		
Chloride	mg/L	2.5				2.6			
Sulfate	mg/L	45	J			44.5	J		
Total Dissolved Solids	mg/L	84				70			
Total Suspended Solids	mg/L	6.1				9.1			
Field Parameters									
Temperature	°C	17.7				17.7			
pH	s.u.	3.93				3.91			
Specific Conductance	uS/cm	148				151			
Dissolved Oxygen	mg/L	8.8				8.6			
Dissolved Oxygen Saturation	%	103				102			
ORP (Redox Potential)	mV	419				422			
Turbidity	NTU	9.2				9.2			

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
B-either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
E-difference of sample and sample duplicate is >10%
cal-value was calculated

Table A.3-3. Surface Water Samples Collected from Little Peak Creek and Tributaries

		Little Peak Creek Above the Former Freshwater Pond		Little Peak Creek Below the Former Freshwater Pond		Little Peak Creek Above Low Gap Creek		Low Gap Creek Above Little Peak Creek		Little Peak Creek Above Peak Creek	
		OK025-SW-001 7/19/2007 16:50 Center Channel		OK024-SW-001 7/19/2007 15:40 Center Channel		OK023-SW-001 7/18/2007 10:25 Center Channel		OK022-SW-001 7/18/2007 9:25 Center Channel		OK021-SW-001 7/18/2007 13:05 Center Channel	
Metals		*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*
Aluminum	ug/L	143	50 U	3590	3600	1480 J	1210	913	50 U	284 J	16.9
Antimony	ug/L	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Arsenic	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Barium	ug/L	38.6	36.8	34	33.3 N	26.8	26.5 J	20.6 J	15	22.8	21.9 J
Beryllium	ug/L	0.1 B	0.1 U	1.2	1.3	0.37 B	0.37 B	0.1 U	0.1 U	0.1 B	0.1 U
Cadmium	ug/L	0.1 U	0.1 U	0.91 J	0.81	0.3 B	0.32 J	0.1 U	0.1 U	0.1 U	0.1 U
Calcium	ug/L	21700	22500	33700	5 U	12600 J	11800	2210	2070 J	6000 J	5790
Chromium	ug/L	1 B	1 U	1 U	1.5 J	5 U	1.2 B	1.9 B	5 U	5 U	1 U
Cobalt	ug/L	6.3 J	10.3 J	77.5 J	75.9 J	21.9 J	22.2 J	0.52 J	2.9 J	5.3 J	5.3 J
Copper	ug/L	13.5 J	1.7 J	81.3 J	76.4	33.4 J	33 J	1.7 J	0.78 J	7.8 J	3.9 J
Iron	ug/L	3300	2660	4890	5250	948	833 E	946 E	100 U	345	62.8 E
Lead	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.6 B	0.5 J	0.59 J	0.5 U	0.5 U	0.5 U
Magnesium	ug/L	5570	5450	7560	6500	2750 J	2530	799	818 J	1640 J	1510
Manganese	ug/L	476 J	463 J	3570 J	3650 J	1320 J	1250 J	29.5 J	16.1 J	338 J	311 J
Mercury	ug/L	R	0.03 U	R	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Molybdenum	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	5 U	5 U	0.1 U
Nickel	ug/L	R	4.2 J	14 J	15.2 J	4.7 J	4.9 J	0.79 J	0.5 U	2.2 J	1.7 J
Potassium	ug/L	2890	3150	3910	3680	2020	1800	1210	1250	1490	1380
Selenium	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Silver	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Sodium	ug/L	5640 J	5090	4570	4260	2500	2260	1950	1910	2010	2300
Thallium	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Vanadium	ug/L	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Zinc	ug/L	29.4 J	28.9 J	139 J	138 J	70.3 J	69.8 J	4.5 J	2.9 J	48.3 J	20.9 J
Hardness	mg/L	77.1 cal	78.6 cal	115.3 cal	26.8 cal	42.8 cal	39.9 cal	8.8 cal	8.5 cal	21.7 cal	20.7 cal
Cyanide											
Cyanide	ug/L		1.5 U	3.52 J							
General Chemistry											
Acidity	mg/L	13.4		69.9		24.2		13.4		13.4	
Alkalinity	mg/L	4.52 J		0.725 UJ		0.725 UJ		9.05 J		2.01 J	
Chloride	mg/L	14.9 J		13.7 J		2.7		2.1		2.3	
Sulfate	mg/L	83.4 J		200 J		89.5 J		1.39 J		20.9 J	
Total Dissolved Solids	mg/L	157		284		126		37		67	
Total Suspended Solids	mg/L	3.4 J		0.6 J		0.6 U		5		2.9 J	
Field Parameters											
Temperature	°C	17.6		21.6		17.5		18.1		18.3	
pH	s.u.	6.35		3.08		4.23		6.19		6.85	
Specific Conductance	uS/cm	216		593		218		32		71	
Dissolved Oxygen	mg/L	7.4		6.4		7.3		7.4		8.6	
Dissolved Oxygen Saturation	%	82		79		NA		83		104	
ORP (Redox Potential)	mV	46		512		399		393		124	
Turbidity	NTU	2.8		0.2		0.8		7.8		9.7	
Polychlorinated Biphenyl Compounds											
Aroclor 1016	ug/L	1 U		1 U							
Aroclor 1221	ug/L	1 U		1 U							
Aroclor 1232	ug/L	1 U		1 U							
Aroclor 1242	ug/L	1 U		1 U							
Aroclor 1248	ug/L	1 U		1 U							
Aroclor 1254	ug/L	1 U		1 U							
Aroclor 1260	ug/L	1 U		1 U							
Aroclor 1262	ug/L	1 U		1 U							
Aroclor 1268	ug/L	1 U		1 U							
Semivolatile Organic Compounds											
(3-and/or 4-)Methylphenol	ug/L	5 U		5 U		5 U		5 U		5 U	
1,1-Biphenyl	ug/L	5 U		5 U		5 U		5 U		5 U	
1,2,4,5-Tetrachlorobenzene	ug/L	5 U		5 U		5 U		5 U		5 U	
2,3,4,6-Tetrachlorophenol	ug/L	5 U		5 U		5 U		5 U		5 U	
2,4,5-Trichlorophenol	ug/L	5 U		5 U		5 U		5 U		5 U	
2,4,6-Trichlorophenol	ug/L	5 U		5 U		5 U		5 U		5 U	
2,4-Dichlorophenol	ug/L	5 U		5 U		5 U		5 U		5 U	
2,4-Dimethylphenol	ug/L	5 U		5 U		5 U		5 U		5 U	
2,4-Dinitrophenol	ug/L	10 U		10 U		10 U		10 U		10 U	
2,4-Dinitrotoluene	ug/L	5 U		5 U		5 U		5 U		5 U	
2,6-Dinitrotoluene	ug/L	5 U		5 U		5 U		5 U		5 U	
2-Chloronaphthalene	ug/L	5 U		5 U		5 U		5 U		5 U	
2-Chlorophenol	ug/L	5 U		5 U		5 U		5 U		5 U	
2-Methyl-4,6-Dinitrophenol	ug/L	10 U		10 U		10 U		10 U		10 U	
2-Methylnaphthalene	ug/L	5 U		5 U		5 U		5 U		5 U	
2-Methylphenol	ug/L	5 U		5 U		5 U		5 U		5 U	
2-Nitroaniline	ug/L	10 U		10 U		10 U		10 U		10 U	
2-Nitrophenol	ug/L	5 U		5 U		5 U		5 U		5 U	
3,3'-Dichlorobenzidine	ug/L	5 U		5 U		5 U		5 U		5 U	
3-Nitroaniline	ug/L	10 U		10 U		10 U		10 U		10 U	
4-Bromophenyl Phenyl Ether	ug/L	5 U		5 U		5 U		5 U		5 U	
4-Chloro-3-Methylphenol	ug/L	5 U		5 U		5 U		5 U		5 U	
4-Chloroaniline	ug/L	5 U		5 U		5 U		5 U		5 U	
4-Chlorophenyl Phenyl Ether	ug/L	5 U		5 U		5 U		5 U		5 U	
4-Nitroaniline	ug/L	10 U		10 U		10 U		10 U		10 U	
4-Nitrophenol	ug/L	10 U		10 U		10 U		10 U		10 U	
Acenaphthene	ug/L	5 U		5 U		5 U		5 U		5 U	
Acenaphthylene	ug/L	5 U		5 U		5 U		5 U		5 U	
Acetophenone	ug/L	5 U		5 U		5 U		5 U		5 U	
Anthracene	ug/L	5 U		5 U		5 U		5 U		5 U	
Atrazine	ug/L	5 U		5 U		5 U		5 U		5 U	
Benzaldehyde	ug/L	5 U		5 U		5 U		5 U		5 U	
Benzo(a)Anthracene	ug/L	5 U		5 U		5 U		5 U		5 U	
Benzo(b)Fluoranthene	ug/L	5 U		5 U		5 U		5 U		5 U	
Benzo(ghi)Perylene	ug/L	5 UJ		5 UJ		5 UJ		5 UJ		5 UJ	
Benzo(k)Fluoranthene	ug/L	5 UJ		5 UJ		5 UJ		5 UJ		5 UJ	
Benzo-a-Pyrene	ug/L	5 U		5 U		5 U		5 U		5 U	
Benzyl Butyl Phthalate	ug/L	5 U		5 U		5 U		5 U		5 U	
bis(2-Chloroethoxy)Methane	ug/L	5 U		5 U		5 U		5 U		5 U	
bis(2-Chloroethyl) Ether	ug/L	5 U		5 U		5 U		5 U		5 U	
bis(2-Chloroisopropyl) Ether	ug/L	5 U		5 U		5 U		5 U		5 U	
bis(2-Ethylhexyl) Phthalate	ug/L	5 U		5 U		5 U		5 U		5 U	
Caprolactam	ug/L	5 U		5 U		5 U		5 U		5 U	
Carbazole	ug/L	5 U		5 U		5 U		5 U		5 U	
Chrysene	ug/L	5 U		5 U		5 U		5 U		5 U	
Dibenzo(a,h)Anthracene	ug/L	5 UJ		5 UJ		5 UJ		5 UJ		5 UJ	
Dibenzofuran	ug/L	5 U		5 U		5 U		5 U		5 U	
Diethyl Phthalate	ug/L	5 U		5 U		5 U		5 U		5 U	
Dimethyl Phthalate	ug/L	5 U		5 U		5 U		5 U		5 U	

Table A.3-3. Surface Water Samples Collected from Little Peak Creek and Tributaries

		Little Peak Creek Above the Former Freshwater Pond		Little Peak Creek Below the Former Freshwater Pond		Little Peak Creek Above Low Gap Creek		Low Gap Creek Above Little Peak Creek		Little Peak Creek Above Peak Creek	
		OK025-SW-001 7/19/2007 16:50 Center Channel		OK024-SW-001 7/19/2007 15:40 Center Channel		OK023-SW-001 7/18/2007 10:25 Center Channel		OK022-SW-001 7/18/2007 9:25 Center Channel		OK021-SW-001 7/18/2007 13:05 Center Channel	
Di-n-Butylphthalate	ug/L	5 U		5 U		5 U		5 U		5 U	
Di-n-Octylphthalate	ug/L	5 U		5 U		5 U		5 U		5 U	
Fluoranthene	ug/L	5 U		5 U		5 U		5 U		5 U	
Fluorene	ug/L	5 U		5 U		5 U		5 U		5 U	
Hexachlorobenzene (HCB)	ug/L	5 U		5 U		5 U		5 U		5 U	
Hexachlorobutadiene	ug/L	5 U		5 U		5 U		5 U		5 U	
Hexachlorocyclopentadiene (HCC	ug/L	5 U		5 U		5 U		5 U		5 U	
Hexachloroethane	ug/L	5 U		5 U		5 U		5 U		5 U	
Indeno (1,2,3-cd) Pyrene	ug/L	5 UJ		5 UJ		5 UJ		5 UJ		5 UJ	
Isophorone	ug/L	5 U		5 U		5 U		5 U		5 U	
Naphthalene	ug/L	5 U		5 U		5 U		5 U		5 U	
Nitrobenzene	ug/L	5 U		5 U		5 U		5 U		5 U	
n-Nitroso di-n-Propylamine	ug/L	5 U		5 U		5 U		5 U		5 U	
n-Nitrosodiphenylamine/Dipheny	ug/L	5 U		5 U		5 U		5 U		5 U	
Pentachlorophenol	ug/L	10 U		10 U		10 U		10 U		10 U	
Phenanthrene	ug/L	5 U		5 U		5 U		5 U		5 U	
Phenol	ug/L	5 U		5 U		5 U		5 U		5 U	
Pyrene	ug/L	5 U		5 U		5 U		5 U		5 U	
Benzo-a-pyrene Equivalents	ug/kg	U		U		U		U		U	
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L			5 U						5 U	
1,1,2,2-Tetrachloroethane	ug/L			5 U						5 U	
1,1,2-Trichloro-1,2,2-trifluoroetha	ug/L			5 U						5 U	
1,1,2-Trichloroethane	ug/L			5 U						5 U	
1,1-Dichloroethane	ug/L			5 U						5 U	
1,1-Dichloroethene	ug/L			5 U						5 U	
1,2,3-Trichlorobenzene	ug/L			5 U						5 U	
1,2,4-Trichlorobenzene	ug/L			5 U						5 U	
1,2-Dibromo-3-chloropropane	ug/L			5 U						5 U	
1,2-Dibromoethane	ug/L			5 U						5 U	
1,2-Dichlorobenzene	ug/L			5 U						5 U	
1,2-Dichloroethane	ug/L			5 U						5 U	
1,2-Dichloropropane	ug/L			5 U						5 U	
1,3-Dichlorobenzene	ug/L			5 U						5 U	
1,4-Dichlorobenzene	ug/L			5 U						5 U	
1,4-Dioxane	ug/L			UR						UR	
2-Butanone	ug/L			10 U						10 U	
2-Hexanone	ug/L			10 U						10 U	
4-Methyl-2-pentanone	ug/L			10 U						10 U	
Acetone	ug/L			10 U						10 U	
Benzene	ug/L			5 U						5 U	
Bromochloromethane	ug/L			5 U						5 U	
Bromodichloromethane	ug/L			5 U						5 U	
Bromoform	ug/L			5 U						5 U	
Bromomethane	ug/L			5 U						5 U	
Carbon disulfide	ug/L			5 U						5 U	
Carbon tetrachloride	ug/L			5 U						5 U	
Chlorobenzene	ug/L			5 U						5 U	
Chloroethane	ug/L			5 U						5 U	
Chloroform	ug/L			5 U						5 U	
Chloromethane	ug/L			5 U						5 U	
cis-1,2-Dichloroethene	ug/L			5 U						5 U	
cis-1,3-Dichloropropene	ug/L			5 U						5 U	
Cyclohexane	ug/L			5 U						5 U	
Dibromochloromethane	ug/L			5 U						5 U	
Dichlorodifluoromethane	ug/L			5 UJ						5 UJ	
Ethylbenzene	ug/L			5 U						5 U	
Isopropylbenzene	ug/L			5 U						5 U	
m,p-Xylene	ug/L			5 U						5 U	
Methyl acetate	ug/L			5 U						5 U	
Methyl tert-butyl ether	ug/L			5 U						5 U	
Methylcyclohexane	ug/L			5 U						5 U	
Methylene chloride	ug/L			5 U						5 U	
o-Xylene	ug/L			5 U						5 U	
Styrene	ug/L			5 U						5 U	
Tetrachloroethene	ug/L			5 U						5 U	
Toluene	ug/L			5 U						5 U	
trans-1,2-Dichloroethene	ug/L			5 U						5 U	
trans-1,3-Dichloropropene	ug/L			5 U						5 U	
Trichloroethene	ug/L			5 U						5 U	
Trichlorofluoromethane	ug/L			5 UJ						5 UJ	
Vinyl Chloride	ug/L			5 U						5 U	

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
B-either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
E-difference of sample and sample duplicate is >10%
N-matrix spike sample recovery is not within specified control limits
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.3-4. Surface Water Samples Collected from Ore Knob Branch and Tributaries

		Seeps in Headwaters of Ore Knob Branch				Ore Knob Branch Above Tailings Impoundment		Ore Knob Branch at Entry to Tailings Impoundment		Ore Knob Branch at Discharge from Collapsed		Ore Knob Branch Below Tailings Impoundment				Ore Knob Branch Above Peak Creek			
		OK003-SW-001 7/19/2007 17:30 Limestone substrate		OK004-SW-001 7/19/2007 17:35		OK001-SW-001 7/19/2007 9:10		OK002-SW-001 7/19/2007 10:25		OK011-SW-001 7/18/2007 15:57		OK013-SW-001 7/19/2007 13:05		OK013-SW-001D 7/19/2007 13:10 Field duplicate of -001		OK014-SW-001 7/18/2007 18:00		OK014-SW-001D 7/18/2007 18:05 Field duplicate of -001	
Metals		*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*	*Total*	*Dissolved*
Aluminum	ug/L	2300	1720	16500	16000	3120	2590	1020	302	2670	2040 J	3960	4560	3990	4700	4660 J	5880	4740 J	5720
Antimony	ug/L	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Arsenic	ug/L	1.5 U	1.5 U	1.5 U	1.6 B	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Barium	ug/L	13	12.3 N	18.7	17.2 N	23.8 N	24.4	31.3 N	28.5	35.9 J	33	25.1	21.3 N	25.2	20.7	15.9	16.2 J	15.5	17 J
Beryllium	ug/L	9	8.9	25.2	25.8	7	6.9	1.1	1	0.68	0.61	0.81	0.82 B	0.81	0.87	0.67	0.79	0.72	0.68
Cadmium	ug/L	9.9 J	9.6	23.5 J	21.4	9.7	9.9 J	1.6	1.5 J	1.5 J	1.5	1.4 J	1.5	1.4 J	1.5 J	1.5	1.5 J	1.5	1.5 J
Calcium	ug/L	127000	121000	85500	77200	61600	59200	22400	22500	95300	104000 J	130000	124000	126000	127000	79400 J	78900	81000 J	79900
Chromium	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.5	5 U	5.7	5 U	5.7	5.1	5 U	6.5	5.5	6.4
Cobalt	ug/L	144 J	134 J	244 J	248 J	102 J	102 J	34.8 J	35.2 J	63.4 J	68.1 J	125 J	114 J	123 J	113 J	89.5 J	91.7 J	87.9 J	89.6 J
Copper	ug/L	6170 J	5930 J	15900 J	13400 J	4270 J	3840 J	616 J	577 J	255 J	283 J	291 J	268 J	282 J	240 J	236 J	208 J	241 J	201 J
Iron	ug/L	826	660	899	933	697	629	15100	13500	279000 E	319000	376000	359000	364000	380000	147000	143000 E	149000	142000 E
Lead	ug/L	0.5 U	0.5 U	2.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	0.5 U	0.54 J	0.5 U	0.51 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Magnesium	ug/L	6050	5590	6170	5320	5030	5630	3050	3140	19200	20600 J	18800	19600	18900	20700	14800 J	15000	15900 J	14200
Manganese	ug/L	3640 J	3430 J	6180 J	5060 J	2700 J	2570 J	743 J	727 J	3090 J	3510 J	3960 J	3780 J	3850 J	3970 J	2570 J	2510 J	2610 J	2520 J
Mercury	ug/L	R	0.03 U	R	0.03 U	0.03 U	R	0.03 U	R	0.03 U	0.03 U	R	0.03 U	0.03 U	R	0.03 U	0.03 U	0.03 U	0.03 U
Molybdenum	ug/L	5 U	0.1 U	0.3 B	5 U	5 U	0.11 B	0.1 U	0.1 U	0.21 B	0.1 U	5 U	0.1 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	ug/L	40.5 J	37.4 J	67.3 J	66.2 J	45 J	44.6 J	11.3 J	9.7 J	11.9 J	12.6 J	20.1 J	18.7 J	19.7 J	20.8 J	14 J	14.5 J	13.8 J	14.2 J
Potassium	ug/L	8850	8160	9270	8900	5540	5000	2340	2280	16000	18800	17100	16800	17400	16000	8950	9830	8520	9650
Selenium	ug/L	1.7 B	1.5 U	6.1	5.3	1.5 U	2.4 B	1.5 U	1.5 U	1.6 B	1.5 U	2.4 B	1.5 U	2.2 B	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Silver	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.23 B	0.26 B	0.43 B	0.34 B	0.41 B	0.27 B	0.2 U	0.2 U	0.2 U	0.52 B
Sodium	ug/L	2800	3020	3280	3640	3870	3680	2260	2100	3330	3220	3040	3460	3110	3680 J	2520	2700	2510	2710
Thallium	ug/L	0.3 U	0.3 U	1.5 U	3 U	0.32 B	0.3 U	0.3 U	0.3 U	0.3 B	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Vanadium	ug/L	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Zinc	ug/L	1880 J	1860 J	4700 J	4500 J	1720 J	1650 J	404 J	375 J	516 J	607 J	517 J	632 J	516 J	650 J	629 J	574 J	648 J	555 J
Hardness	mg/L	342.0 cal	325.1 cal	238.9 cal	214.7 cal	174.5 cal	171.0 cal	68.5 cal	69.1 cal	317.0 cal	344.5 cal	402.0 cal	390.3 cal	392.4 cal	402.3 cal	259.2 cal	258.8 cal	267.7 cal	258.0 cal
General Chemistry																			
Acidity	mg/L	32.2		150		43		43		559		849		849		524		529	
Alkalinity	mg/L	1.51 J		0.725 UJ		0.725 UJ		0.725 UJ		0.725 UJ		0.725 UJ		0.725 UJ		0.725 UJ		0.725 UJ	
Chloride	mg/L	3.3 UJ		3.3 UJ		3.3 UJ		3.3 UJ		0.9		3.3 UJ		3.3 UJ		0.8		0.8	
Sulfate	mg/L	351 J		550 J		249 J		117 J		1050 J		1550 J		1590 J		1130 J		1170 J	
Total Dissolved Solids	mg/L	577		623		344		192		1100		1760		1750		1020		1040	
Total Suspended Solids	mg/L	4.2 J		0.57 U		0.57 U		6.7		135		83.0		88.6		6		5.2	
Field Parameters																			
Temperature	°C	25.3		18.3		17.0		16.4		21.6		24.4		NA		19.8		NA	
pH	s u	4.91		3.73		4.41		5.49		3.61		2.87		NA		2.86		NA	
Specific Conductance	uS/cm	717		730		433		237		1348		2089		NA		1705		NA	
Dissolved Oxygen	mg/L	4.6		5.9		7.4		5.7		4.9		5.1		NA		7.1		NA	
Dissolved Oxygen Saturation	%	61		65		NA		65		51		68		NA		89		NA	
ORP (Redox Potential)	mV	244		362		254		185		418		409		NA		494		NA	
Turbidity	NTU	2.5		1.1		0.2		3.2		11.1		25.0		NA		2.9		NA	

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UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate
B-either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
E-difference of sample and sample duplicate is >10%
N-matrix spike sample recovery is not within specified control limits
R-Data were rejected and considered unusable
cal-value was calculated

Table A.3-5. Surface Water and Seep Samples Collected from the Main Tailings Impoundment

		Ponds Along the Margins of the Tailings Impoundment												Seeps Emanating from Face of Tailings Dam									
		OK005-SW-001 7/19/2007 11:20 East Edge of South Pond				OK006-SW-001 7/18/2007 18:18 West Edge of South Pond				OK007-SW-001 7/18/2007 17:40 West Pond				OK008-SW-001 7/18/2007 16:48 Northeast Pond				OK009-SW-001 7/18/2007 12:30 West Side of Dam				OK010-SW-001 7/18/2007 12:58 Center of Dam				OK012-SW-001 7/19/2007 15:40 East Side of Dam			
Metals		*Total*		*Dissolved*		*Total*		*Dissolved*		*Total*		*Dissolved*		*Total*		*Dissolved*		*Total*		*Dissolved*		*Total*		*Dissolved*	
Aluminum	ug/L	142		15 3	B	2640		2580	J	206	J	196		335		308	J	23700	J	20700		1990		408	J	4890		3840	
Antimony	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Arsenic	ug/L	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	4.5	B	1.5	U	1.5	U	1.6	B	1.5	U	1.5	U
Barium	ug/L	29 2		23 6	N	33.4	J	30.8		37 4		38 9	J	92.9	J	88.8		12 5		11 2	J	32.1	J	35.9		15 2		16 5	
Beryllium	ug/L	0 1	U	0 1	U	0.77		0 71		0 19	B	0 1	U	0.1	U	0.1	U	2 3		3		0.57		0 34	B	0 46	B	0.39	B
Cadmium	ug/L	0.1	U	0.1	U	1.6	J	1.8		0.22	B	0.15	J	0.1	U	0.1	U	7.8		6.7	J	0.43	J	0.46	B	0.62	J	0.55	J
Calcium	ug/L	3200		2350		40900		46400	J	2930	J	2500		5640		5660	J	463000	J	429000		398000		439000	J	307000		329000	
Chromium	ug/L	1	U	1	U	3.3		5	U	1	U	1	U	1	U	1	U	62		58 3		7.1		5	U	11 2		13 9	
Cobalt	ug/L	1 3	J	4 3	J	52.7	J	50.9	J	10 7	J	11 3	J	8.5	J	9	J	743	J	527	J	135	J	200	J	421	J	524	J
Copper	ug/L	12.5	J	3.8	J	375	J	432	J	3	J	2.1	J	27.8	J	26.2	J	971	J	614	J	37.4	J	29.9	J	80.9	J	88.4	J
Iron	ug/L	5360		2760		20300	E	20000		2570		247	E	3990	E	3110		4090000		3300000	E	1820000	E	2250000		1700000		1740000	
Lead	ug/L	0 5	U	0 5	U	0.5	U	0.5	U	0 5	U	0 5	U	1.7	J	1.7	B	0 5	U	0 5	U	0.5	U	0.5	U	0 5	U	0 5	U
Magnesium	ug/L	481		375		5960		6290	J	917	J	803		666		739	J	130000	J	129000		83800		101000	J	66900		68100	
Manganese	ug/L	37.3	J	37.4	J	604	J	1170		172	J	167	J	141	J	152	J	25900	J	25400	J	15300	J	15700	J	12600	J	12900	J
Mercury	ug/L		R	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.2	U	0.083	B	0.031	B	0.2	U	0.045	J	0.03	U
Molybdenum	ug/L	0 1	U	0 1	U	5	U	0.1	U	0 1	U	0 1	U	0.1	U	0.1	U	5	U	0 1	U	0.62		0 52	J	0 17	B	5	U
Nickel	ug/L	0 53	J	2 8	J	11.5	J	11	J	1 6	J	1 8	J	1.4	J	1.5	J	73 6	J	70 9	J	21.4	J	23.3		70 4	J	77 3	J
Potassium	ug/L	1430		1150		12600		12700		1990		1610		7410		7100		46300		42100		35200		44000		27900		29900	
Selenium	ug/L	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	8.4		4.8	B	1.5	U	1.5	U	1.5	U	2.8	B
Silver	ug/L	0 2	U	0 2	U	0.2	U	0.2	U	0 2	U	0 2	U	0.2	U	0.2	U	4 9		3		1.4		2.2		1 4		2 4	
Sodium	ug/L	1120		1160		2630		2750		1190		1020		1730		1700		8490		7030		4630		5440		3370	J	2850	
Thallium	ug/L	0.3	U	0.3	U	0.6	B	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Vanadium	ug/L	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	23.6	B	36.4		7.4	B	3	U	8.4	B	8	B
Zinc	ug/L	6 9	J	7 6	J	532	J	597	J	17 8	J	17 2	J	39.5	J	41.9	J	4900		5230	J	722	J	870		1960	J	1430	J
Hardness	mg/L	10 0	cal	7 4	cal	126 7	cal	141.8	cal	11 1	cal	9 5	cal	16.8	cal	17.2	cal	1691.2	cal	1602 2	cal	1338 7	cal	1511.9	cal	1041.9	cal	1101 8	cal
General Chemistry																													
Acidity	mg/L	13 4				150				13 4				45.7				5130				1210				2580			
Alkalinity	mg/L	3 02	J			0 725	U			0.725	U			0 725	U			0.725	UJ			0 725	UJ			0.725	UJ		
Chloride	mg/L	3.3	UJ			0.9				0.9				0.8				13.2	U			13.2	U			3.3	UJ		
Sulfate	mg/L	45.6	J			412	J			19.1	J			107	J			10800	J			5340	J			4120	J		
Total Dissolved Solids	mg/L	40				383				35				121				13200				8260				6790			
Total Suspended Solids	mg/L	12 4				23				6 33	J			1.8	J			591				179				124			
Field Parameters																													
Temperature	°C	23.2				26.4				26.3				26.5				23.4				15.5				16.7			
pH	s u	6 23				3.09				4 52				4.18				3 24				6.63				4 94			
Specific Conductance	uS/cm	44				863				65				324				8473				5784				4831			
Dissolved Oxygen	mg/L	5.4				5.4				5.4				5.7				4.7				2.9				3.8			
Dissolved Oxygen Saturation	%	71				73				74				78				61				32				39			
ORP (Redox Potential)	mV	111				491				424				416				332				-29				142			
Turbidity	NTU	5 2				13.4				197				10.1				4 9				8.6				15.7			

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate
B-either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
E-difference of sample and sample duplicate is >10%
N-matrix spike sample recovery is not within specified control limits
R-Data were rejected and considered unusable.
cal-value was calculated

Table A.4-1. Sediment and Floodplain Soil from the New River

		S. Fork New River 500 Feet Above Peak Creek		S. Fork New River 630 Feet Downstream of Peak Creek Confluence						S. Fork New River 1,550 Feet Downstream of Peak Creek Confluence				S. Fork New River 1,930 Feet Downstream of	
		OK020-SD-001		OK019-SD-001		OK019-SD-002		OK019-SD-003		OK026-SD-001		OK026-SD-002		OK027-SD-001	
		7/17/2007		7/17/2007		7/17/2007		7/17/2007		7/17/2007		7/17/2007		7/19/2007	
		15:45		15:05		15:00		12:50		11:45		12:10		9:05	
		center channel		left channel		center channel		right channel		center channel		right channel		center channel	
		0 to 3 in.		0 to 2 in.		0 to 2 in.		0 to 2 in.		0 to 3 in.		0 to 3 in.		0 to 2 in.	
		Total		*Total*		*Total*		*Total*		*Total*		*Total*		*Total*	
Metals															
Aluminum	mg/kg	3700		2800		19000		7000	J	2500	J	1300	J	6300	J
Antimony	mg/kg		UR		UR		UR		UR	0.61	UJ	0.26	UJ	0.22	UJ
Arsenic	mg/kg	1.1	UJ	1.4	UJ	1.4	J	1.3	UJ	1.3	UJ	1.2	UJ	1.9	J
Barium	mg/kg	28		26	J	150		53	J	26	J	8.5	J	120	J
Beryllium	mg/kg	0.29	UJ	0.18	UJ	0.9		0.48	UJ	0.21	UJ	0.15	UJ	0.081	UJ
Cadmium	mg/kg	0.57	U	0.69	U	0.63	U	0.66	UJ	0.64	UJ	0.61	UJ	0.59	U
Calcium	mg/kg	520	J	500	J	1500	J	610	J	330	J	200	UJ	180	J
Chromium	mg/kg	16		8.4		32		18	J	9.3	J	4	J	26	J
Cobalt	mg/kg	4	J	3.4	J	16		8.4		3.4	J		R	2.8	UJ
Copper	mg/kg	9.8	J	4	J	32	J	120	J	9.8	J	8.6	J	570	J
Iron	mg/kg	10000	J	5900	J	26000	J	31000	J	7000	J	5400	J	130000	J
Lead	mg/kg	1.6	J	1.6	J	9.1	J	5.5	J	2.2	J	0.76	J	16	J
Magnesium	mg/kg	850	J	780	J	4800	J	1600	J	700	J	200	J	2200	J
Manganese	mg/kg	140	J	230	J	470	J	180	J	200	J	82	J	200	J
Mercury	mg/kg	0.71		0.12	U	0.12	U	0.093	UJ	0.11	U	0.061	UJ	0.29	
Nickel	mg/kg	4.7	J	3.6	UJ	19	J	6.7	J	3.3	UJ	1.3	UJ	11	J
Potassium	mg/kg	580		510	J	4100		1300		470	J	110	J	6500	J
Selenium	mg/kg	4	UJ	4.8	UJ	4.4	UJ	0.89	J	4.5	UJ	4.3	UJ	11	J
Silver	mg/kg	0.074	UJ	1.4	U	1.3	U	1.3	U	1.3	U	1.2	U	1.3	J
Sodium	mg/kg	49	UJ	52	UJ	630	U	26	UJ	140	UJ	77	UJ	320	J
Thallium	mg/kg	2.9	UJ	3.4	UJ	3.1	UJ	3.3	UJ	3.2	UJ	3	UJ	2.9	U
Vanadium	mg/kg	22		12		52		27	J	12	J	6.2	J	36	J
Zinc	mg/kg	20	J	15	J	81	J	50	J	18	J	10	J	35	J
Percent Solids	%	84		69		80		72		76		77		84	
Polychlorinated Biphenyl Compounds															
% Moisture	%	17		26		19		24		19		14		21	
Aroclor 1016	ug/kg	39	U	44	U	40	U	43	U	41	U	38	U	41	U
Aroclor 1221	ug/kg	39	U	44	U	40	U	43	U	41	U	38	U	41	U
Aroclor 1232	ug/kg	39	U	44	U	40	U	43	U	41	U	38	U	41	U
Aroclor 1242	ug/kg	39	U	44	U	40	U	43	U	41	U	38	U	41	U
Aroclor 1248	ug/kg	39	U	44	U	40	U	43	U	41	U	38	U	41	U
Aroclor 1254	ug/kg	39	U	44	U	40	U	43	U	41	U	38	U	41	U
Aroclor 1260	ug/kg	39	U	44	U	40	U	37	J	41	U	38	U	41	U
Aroclor 1262	ug/kg	39	U	44	U	40	U	43	U	41	U	38	U	41	U
Aroclor 1268	ug/kg	39	U	44	U	40	U	43	U	41	U	38	U	41	U
Semivolatile Organic Compounds															
% Moisture	%	17		26		19		24		19		14		21	
(3-and/or 4-)Methylphenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
1,1-Biphenyl	ug/kg	200	U	230	U	210	U	220	U	210	UJ	200	U	220	U
1,2,4,5-Tetrachlorobenzene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2,3,4,6-Tetrachlorophenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2,4,5-Trichlorophenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2,4,6-Trichlorophenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2,4-Dichlorophenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2,4-Dimethylphenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2,4-Dinitrophenol	ug/kg	390	U	450	U	400	U	430	U	410	U	380	U	420	U
2,4-Dinitrotoluene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2,6-Dinitrotoluene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2-Chloronaphthalene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2-Chlorophenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2-Methyl-4,6-Dinitrophenol	ug/kg	390	U	450	U	400	U	430	U	410	U	380	U	420	U
2-Methylnaphthalene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2-Methylphenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
2-Nitroaniline	ug/kg	390	U	450	U	400	U	430	U	410	U	380	U	420	U
2-Nitrophenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
3,3'-Dichlorobenzidine	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
3-Nitroaniline	ug/kg	390	U	450	U	400	U	430	U	410	U	380	U	420	U
4-Bromophenyl Phenyl Ether	ug/kg	200	U	230	U	210	U	220	U	210	UJ	200	U	220	U
4-Chloro-3-Methylphenol	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
4-Chloroaniline	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
4-Chlorophenyl Phenyl Ether	ug/kg	200	U	230	U	210	U	220	U	210	UJ	200	U	220	U
4-Nitroaniline	ug/kg	390	U	450	U	400	U	430	U	410	U	380	U	420	U
4-Nitrophenol	ug/kg	390	U	450	U	400	U	430	U	410	U	380	U	420	U
Acenaphthene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
Acenaphthylene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
Acetophenone	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
Anthracene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
Atrazine	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
Benzaldehyde	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
Benzo(a)Anthracene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
Benzo(b)Fluoranthene	ug/kg	200	UJ	230	U	210	UJ	220	U	210	U	200	U	220	U
Benzo(ghi)Perylene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
Benzo(k)Fluoranthene	ug/kg	200	U	230	UJ	210	U	220	UJ	210	UJ	200	UJ	220	U
Benzo-a-Pyrene	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
Benzyl Butyl Phthalate	ug/kg	200	U	230	U	210	U	220	U	210	UJ	200	U	220	U
bis(2-Chloroethoxy)Methane	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
bis(2-Chloroethyl) Ether	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
bis(2-Chloroisopropyl) Ether	ug/kg	200	U	230	U	210	U	220	U	210	U	200	U	220	U
bis(2-Ethylhexyl) Phthalate	ug/kg	200	U	230	U	210	U	220	U	210	UJ	200	U	220	U

Table A.4-1. Sediment and Floodplain Soil from the New River

		S. Fork New River 500 Feet Above Peak Creek	S. Fork New River 630 Feet Downstream of Peak Creek Confluence			S. Fork New River 1,550 Feet Downstream of Peak Creek Confluence		S. Fork New River 1,930 Feet Downstream of
		OK020-SD-001 7/17/2007 15:45 center channel 0 to 3 in.	OK019-SD-001 7/17/2007 15:05 left channel 0 to 2 in.	OK019-SD-002 7/17/2007 15:00 center channel 0 to 2 in.	OK019-SD-003 7/17/2007 12:50 right channel 0 to 2 in.	OK026-SD-001 7/17/2007 11:45 center channel 0 to 3 in.	OK026-SD-002 7/17/2007 12:10 right channel 0 to 3 in.	OK027-SD-001 7/19/2007 9:05 center channel 0 to 2 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
Caprolactam	ug/kg	200 U	230 U	210 U	220 U	210 UJ	200 U	220 U
Carbazole	ug/kg	200 U	230 U	210 U	220 U	210 UJ	200 U	220 U
Chrysene	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Dibenzo(a,h)Anthracene	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Dibenzofuran	ug/kg	200 U	230 U	210 U	220 U	210 UJ	200 U	220 U
Diethyl Phthalate	ug/kg	200 U	230 U	210 U	220 U	210 UJ	200 U	220 U
Dimethyl Phthalate	ug/kg	200 U	230 U	210 U	220 U	210 UJ	200 U	220 U
Di-n-Butylphthalate	ug/kg	200 U	230 U	210 U	220 U	210 UJ	200 U	220 U
Di-n-Octylphthalate	ug/kg	200 UJ	230 U	210 UJ	220 U	210 UJ	200 U	220 U
Fluoranthene	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Fluorene	ug/kg	200 U	230 U	210 U	220 U	210 UJ	200 U	220 U
Hexachlorobenzene (HCB)	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Hexachlorobutadiene	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Hexachlorocyclopentadiene (HCCP)	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Hexachloroethane	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Indeno (1,2,3-cd) Pyrene	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Isophorone	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Naphthalene	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Nitrobenzene	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
n-Nitroso di-n-Propylamine	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Pentachlorophenol	ug/kg	390 U	450 U	400 U	430 U	410 U	380 U	420 U
Phenanthrene	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Phenol	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Pyrene	ug/kg	200 U	230 U	210 U	220 U	210 U	200 U	220 U
Benzo-a-pyrene Equivalents	ug/kg	U	U	U	U	U	U	U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.4-2. Sediment and Floodplain Soil from Peak Creek

		Peak Creek Above Ore Knob Branch		Peak Creek 60 Feet Below Ore Knob Branch			Peak Creek 440 Feet Above Little Peak Creek	Peak Creek 1,700 Feet Above S. Fork New River			Peak Creek Floodplain at New River Confluence	
		OK015-SD-001 7/18/2007 17:15 center channel 0 to 2 in.		OK016-SD-001 7/18/2007 15:55 left channel 0 to 3 in.	OK016-SD-002 7/18/2007 16:05 center channel 0 to 3 in.	OK016-SD-003 7/18/2007 16:10 right channel 0 to 3 in.	OK017-SD-001 7/18/2007 14:10 center channel 0 to 3 in.	OK018-SD-001 7/17/2007 17:05 right channel 0 to 3 in.	OK018-SD-002 7/17/2007 17:15 center channel 0 to 3 in.	OK018-SD-003 7/17/2007 17:25 right channel 0 to 4 in.	OK204-SL-001 7/17/2007 16:15 Left bank 0 to 6 in.	OK205-SL-001 7/17/2007 15:50 Right bank 0 to 6 in.
		Total		*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
Metals												
Aluminum	mg/kg	23000		11000	2900	5300	5500	9200 J	12000 J	5000 J	3500	13000
Antimony	mg/kg	0.63	UJ	0.97 UJ	12 UJ	12 UJ		UR	UR	UR	UR	0.31 UJ	UR
Arsenic	mg/kg	3.3	J	8.6 J	67 J	5.5 J	1.4 UJ	1.5 UJ	R	1.4 UJ	1.2 UJ	0.67
Barium	mg/kg	260		180	220	160	32	50 J	65 J	32 J	19 J	85
Beryllium	mg/kg	0.94	U	0.13 UJ	2.6 U	0.97 U	0.27 J	0.49 UJ	0.61 UJ	0.26 UJ	0.24 UJ	0.65
Cadmium	mg/kg	0.94	U	0.73 UJ	2.6 U	15	0.11 UJ	0.76 UJ	0.82 UJ	0.7 UJ	0.6 U	0.59 U
Calcium	mg/kg	4700	J	4200 J	2400 J	10000 J	210 J	330 J	270 UJ	250 UJ	340 J	790 J
Chromium	mg/kg	47		82	390	41	11	17 J	24 J	8.8 J	13	20
Cobalt	mg/kg	11		48	470	500	5.2 UJ	7.1 J	13	4.3 J	3.7 J	9.9
Copper	mg/kg	500	J	4800 J	99000 J	59000 J	70 J	120 J	130 J	69 J	5.7 J	43 J
Iron	mg/kg	69000	J	110000 J	940000 J	530000 J	30000 J	39000 J	52000 J	22000 J	6400 J	21000 J
Lead	mg/kg	28	J	370 J	310 J	72 J	3.4 J	5.3 J	6 J	2.7 J	1.7 J	12 J
Magnesium	mg/kg	13000	J	4400 J	730 J	2100 J	1700 J	2300 J	3200 J	1400 J	480 J	3100 J
Manganese	mg/kg	720		770	540	540	120	150 J	250 J	94 J	180 J	280 J
Mercury	mg/kg	0.2	U	0.17 U	0.41 U	0.17 U	1.2	0.084 UJ	0.071 UJ	0.054 UJ	0.1 U	0.11 U
Nickel	mg/kg	13	J	42 J	350 J	54 J	6 J	7.9 J	11 J	4.2 UJ	3.1 UJ	12 J
Potassium	mg/kg	17000	J	3400 J	14000 J	6400 J	1500	2100	2900	1300	310 J	2200
Selenium	mg/kg	1.3	UJ	7	260	83	R	R	R	R	4.2 UJ	R
Silver	mg/kg		R	1.7	23	15	1.4 U	1.5 U	1.6 U	1.4 U	0.085 UJ	1.2 U
Sodium	mg/kg	33	UJ	810 U	1200 J	320 J	93 UJ	760 U	820 U	38 UJ	71 UJ	590 U
Thallium	mg/kg	4.7	UJ	4.1 UJ	13 UJ	4.9 UJ	3.5 U	3.8 UJ	4.1 UJ	3.5 UJ	3 UJ	3 UJ
Vanadium	mg/kg	66		37	88	42	18	28 J	38 J	16 J	12	33
Zinc	mg/kg	170	J	370 J	3200 J	6900 J	28 J	42 J	54 J	24 J	14 J	67 J
Percent Solids	%	50		56	20	51	65	65	61	68	81	83
Polychlorinated Biphenyl Compounds												
% Moisture	%	45		29	81	64	35	29	33	25	15	22
Aroclor 1016	ug/kg	60	U	46 U	170 U	91 U	51 U	46 U	49 U	44 U	39 U	42 U
Aroclor 1221	ug/kg	60	U	46 U	170 U	91 U	51 U	46 U	49 U	44 U	39 U	42 U
Aroclor 1232	ug/kg	60	U	46 U	170 U	91 U	51 U	46 U	49 U	44 U	39 U	42 U
Aroclor 1242	ug/kg	60	U	46 U	170 U	91 U	51 U	46 U	49 U	44 U	39 U	42 U
Aroclor 1248	ug/kg	60	U	46 U	170 U	91 U	51 U	46 U	49 U	44 U	39 U	42 U
Aroclor 1254	ug/kg	60	U	46 U	170 U	91 U	51 U	46 U	49 U	44 U	39 U	42 U
Aroclor 1260	ug/kg	60	U	46 U	170 U	91 U	51 U	46 U	49 U	44 U	39 U	42 U
Aroclor 1262	ug/kg	60	U	46 U	170 U	91 U	51 U	46 U	49 U	44 U	39 U	42 U
Aroclor 1268	ug/kg	60	U	46 U	170 U	91 U	51 U	46 U	49 U	44 U	39 U	42 U
Semivolatile Organic Compounds												
% Moisture	%	45		29	81	64	35	29	33	25	15	22
(3-and/or 4-)Methylphenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
1,1-Biphenyl	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
1,2,4,5-Tetrachlorobenzene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2,3,4,6-Tetrachlorophenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 UJ	220 UJ	200 U	210 U
2,4,5-Trichlorophenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2,4,6-Trichlorophenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2,4-Dichlorophenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2,4-Dimethylphenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2,4-Dinitrophenol	ug/kg	600	U	460 U	1700 U	910 U	510 U	460 U	480 U	430 U	380 U	410 U
2,4-Dinitrotoluene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2,6-Dinitrotoluene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2-Chloronaphthalene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2-Chlorophenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2-Methyl-4,6-Dinitrophenol	ug/kg	600	U	460 U	1700 U	910 U	510 U	460 U	480 U	430 U	380 U	410 U
2-Methylnaphthalene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2-Methylphenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
2-Nitroaniline	ug/kg	600	U	460 U	1700 U	910 U	510 U	460 U	480 U	430 U	380 U	410 U
2-Nitrophenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
3,3'-Dichlorobenzidine	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
3-Nitroaniline	ug/kg	600	U	460 U	1700 U	910 U	510 U	460 U	480 U	430 U	380 U	410 U
4-Bromophenyl Phenyl Ether	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
4-Chloro-3-Methylphenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
4-Chloroaniline	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
4-Chlorophenyl Phenyl Ether	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
4-Nitroaniline	ug/kg	600	U	460 U	1700 U	910 U	510 U	460 U	480 U	430 U	380 U	410 U
4-Nitrophenol	ug/kg	600	U	460 U	1700 U	910 U	510 U	460 U	480 U	430 U	380 U	410 U
Acenaphthene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Acenaphthylene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Acetophenone	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Anthracene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Atrazine	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Benzaldehyde	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	180 J	210 U
Benzo(a)Anthracene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Benzo(b)Fluoranthene	ug/kg	310	UJ	240 UJ	880 U	470 U	260 U	240 UJ	250 U	220 U	22 J	210 UJ
Benzo(ghi)Perylene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Benzo(k)Fluoranthene	ug/kg	310	U	240 U	880 UJ	470 UJ	260 UJ	240 U	250 UJ	220 UJ	22 J	210 U
Benzo-a-Pyrene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Benzyl Butyl Phthalate	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
bis(2-Chloroethoxy)Methane	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
bis(2-Chloroethyl) Ether	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
bis(2-Chloroisopropyl) Ether	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
bis(2-Ethylhexyl) Phthalate	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Caprolactam	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Carbazole	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Chrysene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Dibenzo(a,h)Anthracene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Dibenzofuran	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Diethyl Phthalate	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Dimethyl Phthalate	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Di-n-Butylphthalate	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Di-n-Octylphthalate	ug/kg	310	UJ	240 UJ	880 U	470 U	260 U	240 UJ	250 U	220 UJ	200 UJ	210 UJ
Fluoranthene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Fluorene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Hexachlorobenzene (HCB)	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Hexachlorobutadiene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Hexachlorocyclopentadiene (HCCP)	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Hexachloroethane	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Indeno (1,2,3-cd) Pyrene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Isophorone	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Naphthalene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Nitrobenzene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
n-Nitroso di-n-Propylamine	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Pentachlorophenol	ug/kg	600	U	460 U	1700 U	910 U	510 U	460 U	480 U	430 U	380 U	410 U
Phenanthrene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Phenol	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 U	200 U	210 U
Pyrene	ug/kg	310	U	240 U	880 U	470 U	260 U	240 U	250 U	220 UJ	200 U	210 U
Benzo-a-pyrene Equivalents	ug/kg		U	U	U	U	U	U	U	U	2.4 cal	U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.4-3. Sediment and Floodplain Soil from Little Peak Creek and Tributaries

		Little Peak Creek Above the Former Freshwater Pond		LPC Below the Former Freshwater Pond		Little Peak Creek Above Low Gap Creek		Low Gap Creek Above Little Peak Creek		Little Peak Creek Above Peak Creek		Little Peak Creek Grassed Soil Pile Below Freshwater Pond		Little Peak Creek Floodplain -- 60 feet Above Peak Creek			
		OK025-SD-001 7/19/2007 17:10 center channel 0 to 3 in.		OK024-SD-001 7/18/2007 11:00 center channel 0 to 3 in.		OK023-SD-001 7/18/2007 10:35 center channel 0 to 3 in.		OK022-SD-001 7/18/2007 9:45 center channel 0 to 3 in.		OK021-SD-001 7/18/2007 10:20 center channel 0 to 3 in.		OK426-SL-001 7/19/2007 16:00 right bank 0 to 6 in.		OK202-SL-001 7/17/2007 16:55 right bank 0 to 6 in.		OK203-SL-001 7/17/2007 17:13 left bank 0 to 6 in.	
		Total		*Total*		*Total*		*Total*		*Total*		*Total*		*Total*		*Total*	
Metals																	
Aluminum	mg/kg	2500	J	6900		9600		3800		11000		7900	J	18000		16000	
Antimony	mg/kg	7.9	UJ	9.4	UJ	7.2	UJ	6.8	UJ	8.7	UJ	27	UJ		UR		UR
Arsenic	mg/kg	1.3	UJ	0.82	UJ	0.55	UJ	0.43	UJ	1.1	UJ	4.6	UJ	1.5	J	1.1	J
Barium	mg/kg	59	J	32		31		20	J	48		120	J	88		79	
Beryllium	mg/kg	0.2	UJ	0.26	UJ	0.47	UJ	0.49	UJ	0.72	U	0.12	UJ	0.9		0.75	
Cadmium	mg/kg	0.65	U	0.78	U	0.6	U	0.57	U	0.72	U	2.3	U	0.67	U	0.61	U
Calcium	mg/kg	310	J	320	J	120	J	170	J	410	J	450	J	610	J	440	J
Chromium	mg/kg	12	J	15		19		22		46		29	J	33		25	
Cobalt	mg/kg	5.2	UJ	15		6.3		2.8	J	21		15	UJ	15		11	
Copper	mg/kg	600	J	400	J	100	J	5.7	J	340	J	900	J	110	J	94	J
Iron	mg/kg	43000	J	130000	J	40000	J	12000	J	110000	J	410000	J	36000	J	29000	J
Lead	mg/kg	3.4	J	3.1	J	6.3	J	3.1	J	5	J	8.4	J	10	J	9.3	J
Magnesium	mg/kg	1000	J	1100	J	2100	J	750	J	1900	J	1000	J	3700	J	3200	J
Manganese	mg/kg	150	J	150		130		120		470		150	J	370	J	270	J
Mercury	mg/kg	0.056	UJ	0.15	U	0.1	U	0.1	U	0.14	U	0.26	UJ	0.13	U	0.046	UJ
Nickel	mg/kg	2.1	UJ	3.1	UJ	5.4	J	3.6	UJ	7.6	J	3.8	UJ	14	J	11	J
Potassium	mg/kg	1700	J	1200	J	1600	J	600	J	1700	J	2800	J	3500		3300	
Selenium	mg/kg	1.7	UJ	5	U	0.5	U	4	U	3.5	U	19	J		R		R
Silver	mg/kg		R		R	1.2	U	1.1	U		R	0.93	J	1.3	U	1.2	U
Sodium	mg/kg	58	UJ	780	U	56	UJ	41	UJ	720	U	94	UJ	53	UJ	610	U
Thallium	mg/kg	3.3	U	3.9	UJ	3	UJ	2.8	UJ	3.6	UJ	11	U	3.4	UJ	3	UJ
Vanadium	mg/kg	15	J	25		23		13		37		70	J	42		37	
Zinc	mg/kg	43	J	59	J	44	J	18	J	72	J	81	J	72	J	57	J
Percent Solids	%	76		63		80		84		68		21		74		82	
Cyanide																	
Total Cyanide	mg/kg	3.2	U	0.26	UJ							0.88	UJ				
Acid-Base Accounting Parameters																	
Paste pH	Std units	5.54		3.89								3.06		4.78		4.70	
Sulfur, Total	%	0.13		0.71								1.51		0.05		0.05	
Sulfur, Sulfate (HCl extractable)	%	0.10		0.39								1.08		0.04		0.04	
Sulfur, Pyritic (HNO3 extractable)	%	0.03		0.32								0.40		0.01		0.01	
Sulfur, Residual (non-extractable)	%	0.01	U	0.01	U							0.03		0.01	U	0.01	U
Acid Neutralization Potential	ton/kton	7.8		0.3	U							0.3	U	2.6		2.6	
Acid Generation Potential	ton/kton	0.9	cal	10.0	cal							13.4	cal	0.3	cal	0.3	cal
Net Neutralizing Potential	ton/kton	6.9	cal	-9.7	cal							-13.1	cal	2.3	cal	2.3	cal
Neutralizing Potential Ratio		8.32	cal	0.03	cal							0.02	cal	8.3	cal	8.3	cal
Polychlorinated Biphenyl Compounds																	
% Moisture	%	21		28		14		19		25		64		25		16	
Aroclor 1016	ug/kg	41	U	45	U	38	U	40	U	43	U	88	U	44	U	39	U
Aroclor 1221	ug/kg	41	U	45	U	38	U	40	U	43	U	88	U	44	U	39	U
Aroclor 1232	ug/kg	41	U	45	U	38	U	40	U	43	U	88	U	44	U	39	U
Aroclor 1242	ug/kg	41	U	45	U	38	U	40	U	43	U	88	U	44	U	39	U
Aroclor 1248	ug/kg	41	U	45	U	38	U	40	U	43	U	88	U	44	U	39	U
Aroclor 1254	ug/kg	41	U	45	U	38	U	40	U	43	U	88	U	44	U	39	U
Aroclor 1260	ug/kg	41	U	45	U	38	U	40	U	43	U	88	U	44	U	39	U
Aroclor 1262	ug/kg	41	U	45	U	38	U	40	U	43	U	88	U	44	U	39	U
Aroclor 1268	ug/kg	41	U	45	U	38	U	40	U	43	U	88	U	44	U	39	U
Semivolatile Organic Compounds																	
% Moisture	%	21		28		14		19		25		64		25		16	
(3-and/or 4-)Methylphenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
1,1-Biphenyl	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
1,2,4,5-Tetrachlorobenzene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2,3,4,6-Tetrachlorophenol	ug/kg	210	UJ	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2,4,5-Trichlorophenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2,4,6-Trichlorophenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2,4-Dichlorophenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2,4-Dimethylphenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2,4-Dinitrophenol	ug/kg	400	UJ	450	U	370	U	400	U	430	U	910	U	440	U	390	U
2,4-Dinitrotoluene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2,6-Dinitrotoluene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2-Chloronaphthalene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2-Chlorophenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2-Methyl-4,6-Dinitrophenol	ug/kg	400	U	450	U	370	U	400	U	430	U	910	U	440	U	390	U
2-Methylnaphthalene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
2-Methylphenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	45	J	200	U
2-Nitroaniline	ug/kg	400	U	450	U	370	U	400	U	430	U	910	U	440	U	390	U
2-Nitrophenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
3,3'-Dichlorobenzidine	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
3-Nitroaniline	ug/kg	400	U	450	U	370	U	400	U	430	U	910	U	440	U	390	U
4-Bromophenyl Phenyl Ether	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
4-Chloro-3-Methylphenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
4-Chloroaniline	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
4-Chlorophenyl Phenyl Ether	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
4-Nitroaniline	ug/kg	400	U	450	U	370	U	400	U	430	U	910	U	440	U	390	U
4-Nitrophenol	ug/kg	400	U	450	U	370	U	400	U	430	U	910	U	440	U	390	U
Acenaphthene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Acenaphthylene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Acetophenone	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Anthracene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Atrazine	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Benzaldehyde	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	100	J
Benzo(a)Anthracene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Benzo(b)Fluoranthene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	UJ
Benzo(ghi)Perylene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Benzo(k)Fluoranthene	ug/kg	210	U	230	UJ	190	UJ	210	UJ	220	UJ	470	UJ	230	UJ	200	U
Benzo-a-Pyrene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Benzyl Butyl Phthalate	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
bis(2-Chloroethoxy)Methane	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
bis(2-Chloroethyl) Ether	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
bis(2-Chloroisopropyl) Ether	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U

Table A.4-3. Sediment and Floodplain Soil from Little Peak Creek and Tributaries

		Little Peak Creek Above the Former Freshwater Pond		LPC Below the Former Freshwater Pond		Little Peak Creek Above Low Gap Creek		Low Gap Creek Above Little Peak Creek		Little Peak Creek Above Peak Creek		Little Peak Creek Grassed Soil Pile Below Freshwater Pond		Little Peak Creek Floodplain -- 60 feet Above Peak Creek			
		OK025-SD-001 7/19/2007 17:10 center channel 0 to 3 in.		OK024-SD-001 7/18/2007 11:00 center channel 0 to 3 in.		OK023-SD-001 7/18/2007 10:35 center channel 0 to 3 in.		OK022-SD-001 7/18/2007 9:45 center channel 0 to 3 in.		OK021-SD-001 7/18/2007 10:20 center channel 0 to 3 in.		OK426-SL-001 7/19/2007 16:00 right bank 0 to 6 in.		OK202-SL-001 7/17/2007 16:55 right bank 0 to 6 in.		OK203-SL-001 7/17/2007 17:13 left bank 0 to 6 in.	
		Total		*Total*		*Total*		*Total*		*Total*		*Total*		*Total*		*Total*	
bis(2-Ethylhexyl) Phthalate	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
Caprolactam	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
Carbazole	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
Chrysene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Dibenzo(a,h)Anthracene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Dibenzofuran	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
Diethyl Phthalate	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
Dimethyl Phthalate	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
Di-n-Butylphthalate	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
Di-n-Octylphthalate	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	UJ
Fluoranthene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Fluorene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
Hexachlorobenzene (HCB)	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Hexachlorobutadiene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Hexachlorocyclopentadiene (HCCP)	ug/kg	210	U	230	U	190	U	210	U	220	U	470	UJ	230	U	200	U
Hexachloroethane	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Indeno (1,2,3-cd) Pyrene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Isophorone	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Naphthalene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Nitrobenzene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
n-Nitroso di-n-Propylamine	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Pentachlorophenol	ug/kg	400	U	450	U	370	U	400	U	430	U	910	U	440	U	390	U
Phenanthrene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Phenol	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Pyrene	ug/kg	210	U	230	U	190	U	210	U	220	U	470	U	230	U	200	U
Benzo-a-pyrene Equivalents	ug/kg		U		U		U		U		U		U		U		U
Volatile Organic Compounds																	
% Moisture	%			31						26							
1,1,1-Trichloroethane	ug/kg			6.7	U					5.9	U						
1,1,2,2-Tetrachloroethane	ug/kg			6.7	U					5.9	U						
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg			6.7	U					5.9	U						
1,1,2-Trichloroethane	ug/kg			6.7	U					5.9	U						
1,1-Dichloroethane	ug/kg			6.7	U					5.9	U						
1,1-Dichloroethene	ug/kg			6.7	U					5.9	U						
1,2,3-Trichlorobenzene	ug/kg			6.7	U					5.9	U						
1,2,4-Trichlorobenzene	ug/kg			6.7	U					5.9	U						
1,2-Dibromo-3-chloropropane	ug/kg			6.7	U					5.9	U						
1,2-Dibromoethane	ug/kg			6.7	U					5.9	U						
1,2-Dichlorobenzene	ug/kg			6.7	U					5.9	U						
1,2-Dichloroethane	ug/kg			6.7	U					5.9	U						
1,2-Dichloropropane	ug/kg			6.7	U					5.9	U						
1,3-Dichlorobenzene	ug/kg			6.7	U					5.9	U						
1,4-Dichlorobenzene	ug/kg			6.7	U					5.9	U						
1,4-Dioxane	ug/kg			130	U					120	U						
2-Butanone	ug/kg			13	U					12	U						
2-Hexanone	ug/kg			13	U					12	U						
4-Methyl-2-pentanone	ug/kg			13	U					12	U						
Acetone	ug/kg			13	U					12	U						
Benzene	ug/kg			6.7	U					5.9	U						
Bromochloromethane	ug/kg			6.7	U					5.9	U						
Bromodichloromethane	ug/kg			6.7	U					5.9	U						
Bromoform	ug/kg			6.7	U					5.9	U						
Bromomethane	ug/kg			6.7	U					5.9	U						
Carbon disulfide	ug/kg			6.7	U					5.9	U						
Carbon tetrachloride	ug/kg			6.7	U					5.9	U						
Chlorobenzene	ug/kg			6.7	U					5.9	U						
Chloroethane	ug/kg			6.7	U					5.9	U						
Chloroform	ug/kg			6.7	U					5.9	U						
Chloromethane	ug/kg			6.7	U					5.9	U						
cis-1,2-Dichloroethene	ug/kg			6.7	U					5.9	U						
cis-1,3-Dichloropropene	ug/kg			6.7	U					5.9	U						
Cyclohexane	ug/kg			6.7	U					5.9	U						
Dibromochloromethane	ug/kg			6.7	U					5.9	U						
Dichlorodifluoromethane	ug/kg			6.7	U					5.9	U						
Ethylbenzene	ug/kg			6.7	U					5.9	U						
Isopropylbenzene	ug/kg			6.7	U					5.9	U						
m,p-Xylene	ug/kg			6.7	U					5.9	U						
Methyl acetate	ug/kg			6.7	U					5.9	U						
Methyl tert-butyl ether	ug/kg			6.7	U					5.9	U						
Methylcyclohexane	ug/kg			6.7	U					5.9	U						
Methylene chloride	ug/kg			6.7	U					5.9	U						
o-Xylene	ug/kg			6.7	U					5.9	U						
Styrene	ug/kg			6.7	U					5.9	U						
Tetrachloroethene	ug/kg			6.7	U					5.9	U						
Toluene	ug/kg			6.7	U					5.9	U						
trans-1,2-Dichloroethene	ug/kg			6.7	U					5.9	U						
trans-1,3-Dichloropropene	ug/kg			6.7	U					5.9	U						
Trichloroethene	ug/kg			6.7	U					5.9	U						
Trichlorofluoromethane	ug/kg			6.7	U					5.9	U						
Vinyl Chloride	ug/kg			6.7	U					5.9	U						

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.4-4. Sediment and Floodplain Soil from Ore Knob Branch

		Seeps in Headwaters of Ore Knob Branch	Ore Knob Branch Above Tailings Impoundment	Ore Knob Branch at Entry to Tailings Impoundment	Ore Knob Branch Below Tailings Impoundment		Ore Knob Branch Above Peak Creek		Ore Knob Branch Floodplain -- Below Tailings Impoundment		Ore Knob Branch Floodplain -- 120 feet Above Peak Creek	
		OK004-SD-001 7/19/2007 17:55 center channel 0 to 3 in.	OK001-SD-001 7/19/2007 9:25 center channel 0 to 3 in.	OK002-SD-001 7/19/2007 10:35 center channel 0 to 4 in.	OK013-SD-001 7/19/2007 13:20 center channel 0 to 3 in.	OK013-SD-001D 7/19/2007 13:25 field dupe -001	OK014-SD-001 7/18/2007 18:15 center channel 0 to 1 in.	OK014-SD-001D 7/18/2007 18:20 field dupe -001	OK207-SL-001 7/19/2007 13:30 right bank 0 to 6 in.	OK207-SL-001D 7/19/2007 13:35 field dupe -001	OK200-SL-001 7/17/2007 18:05 right bank 0 to 6 in.	OK201-SL-001 7/17/2007 17:48 left bank 0 to 6 in.
		Total	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
Metals												
Aluminum	mg/kg	12000 J	49000	23000	2700	2100	2500	3200	1900 J	1900 J	14000	3800
Antimony	mg/kg	7.7 UJ	UR	UR	UR	UR	UR	UR	8.8 UJ	7.4 UJ	UR	UR
Arsenic	mg/kg	2.2 J	R	3.6 J	2.8 J	1.5 J	1.7 J	4 J	3.8 J	3.3 J	3.8 J	1.6 J
Barium	mg/kg	59 J	150	220	140	110	91	120	91 J	96 J	270	95
Beryllium	mg/kg	1.2	1.1	2.2	0.07 J	0.048 J	R	0.19 J	0.73 U	0.62 U	0.4 UJ	0.12 UJ
Cadmium	mg/kg	0.64 U	0.7	6.7	1.7	2.2	1.9	3.6	0.73 U	0.62 U	4	0.7 U
Calcium	mg/kg	180 J	320 J	3100 J	500 J	460 J	300 J	850 J	500 J	430 J	430 J	320 J
Chromium	mg/kg	31 J	43	44	17	14	9.7	12	11 J	13 J	35	13
Cobalt	mg/kg	9.1 J	17	140	20	17	11 UJ	10	72 J	44 J	6 J	2.1 J
Copper	mg/kg	1000 J	310 J	4200 J	580 J	520 J	170 J	240 J	640 J	480 J	800 J	300 J
Iron	mg/kg	110000 J	51000 J	330000 J	120000 J	140000 J	220000 J	270000 J	62000 J	68000 J	550000 J	180000 J
Lead	mg/kg	23 J	13 J	23 J	10 J	7.5 J	8.2 J	10 J	8.6 J	8.3 J	24 J	6.6 J
Magnesium	mg/kg	2300 J	5900 J	6200 J	1000 J	790 J	480 J	870 J	550 J	540 J	2300 J	880 J
Manganese	mg/kg	730 J	450	820	76	59	47	54	93 J	85 J	230 J	100 J
Mercury	mg/kg	0.29	0.16	0.25	0.4	0.58	0.3	0.18	0.18	0.24	0.27	0.23
Nickel	mg/kg	4.8 UJ	17 J	19 J	2 UJ	1.5 UJ	1.3 UJ	1.7 UJ	3 UJ	2.3 UJ	7.8 UJ	2.1 UJ
Potassium	mg/kg	2300 J	5000	7300	4700	3600	3400	4800	1800 J	1500 J	10000	3300
Selenium	mg/kg	1.5 UJ	4.2 UJ	15 J	21 J	17 J	12 J	13 J	20 J	20 J	23 J	14 J
Silver	mg/kg	1 J	1.2 U	1.6	0.99 J	0.81 J	0.49 J	0.8 J	0.79 J	0.87 J	1.4 J	0.62 J
Sodium	mg/kg	640 U	81 UJ	76 UJ	600 J	170 UJ	170 UJ	190 UJ	91 UJ	58 UJ	350 UJ	86 UJ
Thallium	mg/kg	3.2 U	3 U	4.4	4.1 U	4.3 U	5.9 U	R	3.6 U	3.1 U	R	3.5 UJ
Vanadium	mg/kg	47 J	69	64	31	27	21	24	22 J	38 J	73	28
Zinc	mg/kg	49 J	110 J	1000 J	100 J	80 J	30 J	27 J	120 J	70 J	130 J	65 J
Percent Solids	%	75	76	58	57	57	39	66	68	76	50	69
Cyanide												
Total Cyanide	mg/kg								3.6 U	3.3 U		
Acid-Base Accounting Parameters												
Paste pH	Std units								3.49	3.93	3.38	3.76
Sulfur, Total	%								2.06	1.99	1.31	0.9
Sulfur, Sulfate (HCl extractable)	%								0.99	0.99	0.9	0.66
Sulfur, Pyritic (HNO3 extractable)	%								1.04	0.98	0.38	0.24
Sulfur, Residual (non-extractable)	%								0.0	0.0	0.0	0.01 U
Acid Neutralization Potential	ton/kton								0.3 U	0.3 U	0.3 U	0.3 U
Acid Generation Potential	ton/kton								33.4 cal	31.3 cal	12.8 cal	7.5 cal
Net Neutralizing Potential	ton/kton								-33.1 cal	-31.0 cal	-12.5 cal	-7.2 cal
Neutralizing Potential Ratio									0.009 cal	0.01 cal	0.02 cal	0.04 cal
Polychlorinated Biphenyl Compounds												
% Moisture	%						63	64	25	16	15	31
Aroclor 1016	ug/kg						88 U	91 U	42 U	39 UJ	39 U	48 U
Aroclor 1221	ug/kg						88 U	91 U	42 U	39 UJ	39 U	48 U
Aroclor 1232	ug/kg						88 U	91 U	42 U	39 UJ	39 U	48 U
Aroclor 1242	ug/kg						88 U	91 U	42 U	39 UJ	39 U	48 U
Aroclor 1248	ug/kg						88 U	91 U	42 U	39 UJ	39 U	48 U
Aroclor 1254	ug/kg						88 U	91 U	42 U	39 UJ	39 U	48 U
Aroclor 1260	ug/kg						88 U	91 U	42 U	39 UJ	39 U	48 U
Aroclor 1262	ug/kg						88 U	91 U	42 U	39 UJ	39 U	48 U
Aroclor 1268	ug/kg						88 U	91 U	42 U	39 UJ	39 U	48 U
Semivolatile Organic Compounds												
% Moisture	%	23	20	18	41	42	63	64	25	16	15	31
(3-and/or 4-)Methylphenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
1,1-Biphenyl	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
1,2,4,5-Tetrachlorobenzene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2,3,4,6-Tetrachlorophenol	ug/kg	210 U	210 U	210 UJ	290 U	290 U	450 U	470 U	220 UJ	200 U	190 UJ	240 U
2,4,5-Trichlorophenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2,4,6-Trichlorophenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2,4-Dichlorophenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2,4-Dimethylphenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2,4-Dinitrophenol	ug/kg	410 U	400 U	400 UJ	560 U	560 U	880 U	910 U	440 UJ	380 U	380 U	470 U
2,4-Dinitrotoluene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2,6-Dinitrotoluene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2-Chloronaphthalene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2-Chlorophenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2-Methyl-4,6-Dinitrophenol	ug/kg	410 U	400 U	400 U	560 U	560 U	880 U	910 U	440 U	380 U	380 U	470 U
2-Methylnaphthalene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2-Methylphenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
2-Nitroaniline	ug/kg	410 U	400 U	400 U	560 U	560 U	880 U	910 U	440 U	380 U	380 U	470 U
2-Nitrophenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
3,3'-Dichlorobenzidine	ug/kg	210 U	210 UJ	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
3-Nitroaniline	ug/kg	410 U	400 U	400 U	560 U	560 U	880 U	910 U	440 U	380 U	380 U	470 U
4-Bromophenyl Phenyl Ether	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 UJ	470 U	220 U	200 U	190 U	240 U
4-Chloro-3-Methylphenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
4-Chloroaniline	ug/kg	210 U	210 UJ	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
4-Chlorophenyl Phenyl Ether	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 UJ	470 U	220 U	200 U	190 U	240 U
4-Nitroaniline	ug/kg	410 U	400 U	400 U	560 U	560 U	880 U	910 U	440 U	380 U	380 U	470 U
4-Nitrophenol	ug/kg	410 U	400 U	400 U	560 U	560 U	880 U	910 U	440 U	380 U	380 U	470 U
Acenaphthene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Acenaphthylene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Acetophenone	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Anthracene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Atrazine	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Benzaldehyde	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Benzo(a)Anthracene	ug/kg	210 U	45 J	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Benzo(b)Fluoranthene	ug/kg	210 U	37 J	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Benzo(ghi)Perylene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Benzo(k)Fluoranthene	ug/kg	210 UJ	42 J	210 U	290 U	290 U	450 UJ	470 UJ	220 U	200 U	190 UJ	240 UJ
Benzo-a-Pyrene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Benzyl Butyl Phthalate	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
bis(2-Chloroethoxy)Methane	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
bis(2-Chloroethyl) Ether	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
bis(2-Chloroisopropyl) Ether	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
bis(2-Ethylhexyl) Phthalate	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Caprolactam	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Carbazole	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 UJ	470 U	220 U	200 U	190 U	240 U
Chrysene	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Dibenzo(a,h)Anthracene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Dibenzofuran	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 UJ	470 U	220 U	200 U	190 U	240 U
Diethyl Phthalate	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Dimethyl Phthalate	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Di-n-Butylphthalate	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Di-n-Octylphthalate	ug/kg	210 UJ	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Fluoranthene	ug/kg	210 U	83 J	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Fluorene	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 UJ	470 U	220 U	200 U	190 U	240 U
Hexachlorobenzene (HCB)	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Hexachlorobutadiene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Hexachlorocyclopentadiene (HCCP)	ug/kg	210 UJ	210 UJ	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Hexachloroethane	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Indeno (1,2,3-cd) Pyrene	ug/kg	210 U	210 U	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Isophorone	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Naphthalene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Nitrobenzene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
n-Nitroso di-n-Propylamine	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Pentachlorophenol	ug/kg	410 U	400 U	400 U	560 U	560 U	880 U	910 U	440 U	380 U	380 U	470 U
Phenanthrene	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Phenol	ug/kg	210 U	210 U	210 U	290 U	290 U	450 U	470 U	220 U	200 U	190 U	240 U
Pyrene	ug/kg	210 U	61 J	210 U	290 U	290 UJ	450 U	470 U	220 U	200 U	190 U	240 U
Benzo-a-pyrene Equivalents	ug/kg	U	U	U	U	U	U	U	U	U	U	U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.5-1. Samples from Residential Yards

		Residential Soils		
		OK406-SL-001 7/19/2007 17:15 discrete 0 to 6 in.	OK407-SL-001 7/19/2007 13:00 discrete 0 to 6 in.	OK408-SL-001 7/18/2007 8:40 discrete 0 to 6 in.
		Total	*Total*	*Total*
Metals				
Aluminum	mg/kg	10000 J	13000 J	19000
Antimony	mg/kg	1.6 UJ	0.4 UJ	UR
Arsenic	mg/kg	3.4 UJ	1.2 UJ	2 J
Barium	mg/kg	100 J	71 J	110
Beryllium	mg/kg	0.31 UJ	0.26 UJ	0.78
Cadmium	mg/kg	1.7 U	0.71 U	0.58 U
Calcium	mg/kg	2600 J	1800 J	410 J
Chromium	mg/kg	21 J	17 J	27
Cobalt	mg/kg	19 J	7.7 J	9.7
Copper	mg/kg	1800 J	170 J	17 J
Iron	mg/kg	60000 J	19000 J	29000 J
Lead	mg/kg	15 J	15 J	12 J
Magnesium	mg/kg	2900 J	2700 J	2800 J
Manganese	mg/kg	1200 J	320 J	250 J
Mercury	mg/kg	0.48	0.085 UJ	0.054 UJ
Nickel	mg/kg	10 UJ	10 J	9.8 J
Potassium	mg/kg	2900 J	1900 J	4000
Selenium	mg/kg	2.6 UJ	0.32 UJ	R
Silver	mg/kg	R	1.4 U	1.2 U
Sodium	mg/kg	99 UJ	96 UJ	580 U
Thallium	mg/kg	8.6 U	3.5 U	2.9 UJ
Vanadium	mg/kg	29 J	29 J	47
Zinc	mg/kg	170 J	62 J	48 J
Percent Solids	%	27	67	86
Cyanide				
Total Cyanide	mg/kg	9.3 U	3.7 U	2.9 U
Polychlorinated Biphenyl Compounds				
% Moisture	%			13
Aroclor 1016	ug/kg		UR	38 U
Aroclor 1221	ug/kg		UR	38 U
Aroclor 1232	ug/kg		UR	38 U
Aroclor 1242	ug/kg		UR	38 U
Aroclor 1248	ug/kg		UR	38 U
Aroclor 1254	ug/kg		UR	38 U
Aroclor 1260	ug/kg		UR	38 U
Aroclor 1262	ug/kg		UR	38 U
Aroclor 1268	ug/kg		UR	38 U
Semivolatile Organic Compounds				
% Moisture	%	27	33	13
(3-and/or 4-)Methylphenol	ug/kg	230 U	250 U	200 U
1,1-Biphenyl	ug/kg	230 U	250 U	200 U
1,2,4,5-Tetrachlorobenzene	ug/kg	230 U	250 U	200 U
2,3,4,6-Tetrachlorophenol	ug/kg	230 U	250 U	200 U
2,4,5-Trichlorophenol	ug/kg	230 U	250 U	200 U
2,4,6-Trichlorophenol	ug/kg	230 U	250 U	200 U
2,4-Dichlorophenol	ug/kg	230 U	250 U	200 U
2,4-Dimethylphenol	ug/kg	230 U	250 U	200 U
2,4-Dinitrophenol	ug/kg	440 U	480 U	380 U
2,4-Dinitrotoluene	ug/kg	230 U	250 U	200 U
2,6-Dinitrotoluene	ug/kg	230 U	250 U	200 U
2-Chloronaphthalene	ug/kg	230 U	250 U	200 U
2-Chlorophenol	ug/kg	230 U	250 U	200 U
2-Methyl-4,6-Dinitrophenol	ug/kg	440 U	480 U	380 U
2-Methylnaphthalene	ug/kg	230 U	250 U	200 U
2-Methylphenol	ug/kg	230 U	250 U	200 U
2-Nitroaniline	ug/kg	440 U	480 U	380 U
2-Nitrophenol	ug/kg	230 U	250 U	200 U
3,3'-Dichlorobenzidine	ug/kg	230 U	250 U	200 U
3-Nitroaniline	ug/kg	440 U	480 U	380 U
4-Bromophenyl Phenyl Ether	ug/kg	230 U	250 U	200 U
4-Chloro-3-Methylphenol	ug/kg	230 U	250 U	200 U
4-Chloroaniline	ug/kg	230 U	250 U	200 U
4-Chlorophenyl Phenyl Ether	ug/kg	230 U	250 U	200 U
4-Nitroaniline	ug/kg	440 U	480 U	380 U
4-Nitrophenol	ug/kg	440 U	480 U	380 U
Acenaphthene	ug/kg	230 U	250 U	200 U
Acenaphthylene	ug/kg	230 U	250 U	200 U
Acetophenone	ug/kg	230 U	250 U	200 U
Anthracene	ug/kg	230 U	250 U	200 U
Atrazine	ug/kg	230 U	250 U	200 U
Benzaldehyde	ug/kg	27 J	250 U	200 U
Benzo(a)Anthracene	ug/kg	230 UJ	250 U	200 U
Benzo(b)Fluoranthene	ug/kg	230 U	250 U	200 UJ
Benzo(ghi)Perylene	ug/kg	230 U	250 U	200 U
Benzo(k)Fluoranthene	ug/kg	230 UJ	250 U	200 U
Benzo-a-Pyrene	ug/kg	230 U	250 U	200 U
Benzyl Butyl Phthalate	ug/kg	230 U	250 U	200 U
bis(2-Chloroethoxy)Methane	ug/kg	230 U	250 U	200 U
bis(2-Chloroethyl) Ether	ug/kg	230 U	250 U	200 U
bis(2-Chloroisopropyl) Ether	ug/kg	230 U	250 U	200 U
bis(2-Ethylhexyl) Phthalate	ug/kg	230 U	250 U	200 U
Caprolactam	ug/kg	230 U	250 U	200 U
Carbazole	ug/kg	230 U	250 U	200 U
Chrysene	ug/kg	230 UJ	250 U	200 U
Dibenzo(a,h)Anthracene	ug/kg	230 U	250 U	200 U
Dibenzofuran	ug/kg	230 U	250 U	200 U
Diethyl Phthalate	ug/kg	230 U	250 U	200 U
Dimethyl Phthalate	ug/kg	230 U	250 U	200 U
Di-n-Butylphthalate	ug/kg	230 U	250 U	200 U
Di-n-Octylphthalate	ug/kg	230 UJ	250 U	200 UJ
Fluoranthene	ug/kg	230 UJ	250 U	200 U
Fluorene	ug/kg	230 U	250 U	200 U
Hexachlorobenzene (HCB)	ug/kg	230 U	250 U	200 U
Hexachlorobutadiene	ug/kg	230 U	250 U	200 U
Hexachlorocyclopentadiene (HCCP)	ug/kg	230 UJ	250 U	200 U
Hexachloroethane	ug/kg	230 U	250 U	200 U
Indeno (1,2,3-cd) Pyrene	ug/kg	230 U	250 U	200 U
Isophorone	ug/kg	230 U	250 U	200 U
Naphthalene	ug/kg	230 U	250 U	200 U
Nitrobenzene	ug/kg	230 U	250 U	200 U
n-Nitroso di-n-Propylamine	ug/kg	230 U	250 U	200 U
n-Nitrosodiphenylamine/Diphenylamine	ug/kg	230 U	250 U	200 U
Pentachlorophenol	ug/kg	440 U	480 U	380 U
Phenanthrene	ug/kg	230 U	250 U	200 U
Phenol	ug/kg	230 U	250 U	200 U
Pyrene	ug/kg	230 UJ	250 U	200 U
Benzo-a-pyrene Equivalents	ug/kg	301.5 cal	327.8 cal	262.2 cal

Table A.5-1. Samples from Residential Yards

		Residential Soils					
		OK406-SL-001 7/19/2007 17:15 discrete 0 to 6 in.		OK407-SL-001 7/19/2007 13:00 discrete 0 to 6 in.		OK408-SL-001 7/18/2007 8:40 discrete 0 to 6 in.	
		Total		*Total*		*Total*	
Volatile Organic Compounds							
% Moisture	%					20	
1,1,1-Trichloroethane	ug/kg					6	U
1,1,2,2-Tetrachloroethane	ug/kg					6	U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg					6	U
1,1,2-Trichloroethane	ug/kg					6	U
1,1-Dichloroethane	ug/kg					6	U
1,1-Dichloroethene	ug/kg					6	U
1,2,3-Trichlorobenzene	ug/kg					6	U
1,2,4-Trichlorobenzene	ug/kg					6	U
1,2-Dibromo-3-chloropropane	ug/kg					6	U
1,2-Dibromoethane	ug/kg					6	U
1,2-Dichlorobenzene	ug/kg					6	U
1,2-Dichloroethane	ug/kg					6	U
1,2-Dichloropropane	ug/kg					6	U
1,3-Dichlorobenzene	ug/kg					6	U
1,4-Dichlorobenzene	ug/kg					6	U
1,4-Dioxane	ug/kg					120	U
2-Butanone	ug/kg					12	U
2-Hexanone	ug/kg					12	U
4-Methyl-2-pentanone	ug/kg					12	U
Acetone	ug/kg					12	U
Benzene	ug/kg					6	U
Bromochloromethane	ug/kg					6	U
Bromodichloromethane	ug/kg					6	U
Bromoform	ug/kg					6	U
Bromomethane	ug/kg					6	U
Carbon disulfide	ug/kg					6	U
Carbon tetrachloride	ug/kg					6	U
Chlorobenzene	ug/kg					6	U
Chloroethane	ug/kg					6	U
Chloroform	ug/kg					6	U
Chloromethane	ug/kg					6	U
cis-1,2-Dichloroethene	ug/kg					6	U
cis-1,3-Dichloropropene	ug/kg					6	U
Cyclohexane	ug/kg					6	U
Dibromochloromethane	ug/kg					6	U
Dichlorodifluoromethane	ug/kg					6	U
Ethylbenzene	ug/kg					6	U
Isopropylbenzene	ug/kg					6	U
m,p-Xylene	ug/kg					6	U
Methyl acetate	ug/kg					6	U
Methyl tert-butyl ether	ug/kg					6	U
Methylcyclohexane	ug/kg					6	U
Methylene chloride	ug/kg					6	U
o-Xylene	ug/kg					6	U
Styrene	ug/kg					6	U
Tetrachloroethene	ug/kg					6	U
Toluene	ug/kg					6	U
trans-1,2-Dichloroethene	ug/kg					6	U
trans-1,3-Dichloropropene	ug/kg					6	U
Trichloroethene	ug/kg					6	U
Trichlorofluoromethane	ug/kg					6	U
Vinyl Chloride	ug/kg					6	U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
R-Data were rejected and considered unusable.
UR-Nondetected value was rejected and considered unusable.
cal-value was calculated

Table A.5-2. Water Samples Collected from Residential Wells

		Roan Creek Church	Jimmy Tripp Well 157 Hunters Lane		Ronnie Bare Spring	Gene Lewis Well 135 Ore Knob Mine Road	Kenneth Bare Well 201 Ore Knob Mine Road	James Drake Well 801 Little Peak Creek Road	Mark Mallette Well 154 Golden Fox
		OK701-DW-001 7/18/2007 14:45	OK702-DW-001 7/18/2007 9:22	OK702-DW-001D 7/18/2007 9:22 field duplicate -001	OK703-DW-001 7/18/2007 10:55	OK704-DW-001 7/18/2007 13:30	OK705-DW-001 7/18/2007 14:13	OK706-DW-001 7/19/2007 17:45	OK707-DW-001 7/19/2007 18:20
Metals		*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*	*Total*
Aluminum	ug/L	29.8 J	66.1 J	61.9 J	154 J	5.6 UJ	11.6 J	179	50 U
Antimony	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Arsenic	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Barium	ug/L	6.3	39.5	40	33.8	15.1	11.3	13.1	11.6
Beryllium	ug/L	0.1 U	0.41 B	0.43 B	0.54	0.1 U	0.1 U	0.26 B	0.26 B
Cadmium	ug/L	0.1 U	2.5	2.5	0.63 B	0.1 U	0.1 U	0.68 J	0.89 J
Calcium	ug/L	11000 J	166000 J	153000 J	5080 J	9820 J	9460 J	58700	49600
Chromium	ug/L	6.1	1 U	1 U	1 U	5 U	5 U	1 U	1.5 B
Cobalt	ug/L	0.1 U	136 J	136	2.1 J	0.18 J	0.1 U	67.7 J	42.4 J
Copper	ug/L	0.87 J	18.5 J	18.6 J	1.6 J	16.7 J	22.4 J	26.9 J	41.8 J
Iron	ug/L	417	5820	5790	35.1	52	86.6	14800	225
Lead	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.55 B	0.79 B	0.5 U	9.9
Magnesium	ug/L	1050 J	12600 J	12700 J	1710 J	1560 J	1270 J	4190	11400
Manganese	ug/L	92.5 J	18200 J	17300 J	117 J	2.1 J	7.1 J	6370 J	1900 J
Mercury	ug/L	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Molybdenum	ug/L	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	ug/L	0.5 U	114 J	112	1.2 J	0.84 J	0.83 J	10.2 J	10.9 J
Potassium	ug/L	1870	5520	5800	1340	1880	1970	5480	4000
Selenium	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Silver	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Sodium	ug/L	4050	9470	9690	2450	2980	4330	3640	4930
Thallium	ug/L	0.41 B	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Vanadium	ug/L	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Zinc	ug/L	20.5 J	848 J	829	156 J	24.3 J	14.6 J	470 J	323 J
Hardness	mg/L	31.8 cal	466.4 cal	434.3 cal	19.7 cal	30.9 cal	28.8 cal	163.8 cal	170.8 cal
General Chemistry									
Acidity	mg/L	13.4	59.1	59.1	26.9	13.4	13.4	69.9	13.4
Alkalinity	mg/L	37.7	5.53	5.53	7.04	18.1	35.2	1.01 J	4.02 J
Chloride	mg/L	0.8	5.9	5.7	1.3	2.2	1.0	3.3 UJ	3.3 UJ
Sulfate	mg/L	9.28 J	478 J	466 J	13.6 J	16.6 J	11.5 J	261.0 J	231.0 J
Total Dissolved Solids	mg/L	78	756	724	50	75	85	340	297
Total Suspended Solids	mg/L	0.6 U	3 J	1.8 J	0.57 U	0.57 U	0.57 U	3.2 J	0.7 J
Field Parameters									
Temperature	°C	19.6	13.3	13.3	14.8	15.5	17.9	15.3	13.6
pH	s.u.	7.17	5.35	5.35	5.48	6.32	6.46	5.90	6.13
Specific Conductance	uS/cm	114	951	951	75	103	107	439	379
Dissolved Oxygen	mg/L	NA	NA	NA	NA	NA	NA	2.7	8.6
Dissolved Oxygen Saturation	%	NA	NA	NA	NA	NA	NA	NA	NA
ORP (Redox Potential)	mV	NA	NA	NA	NA	NA	NA	127	184
Turbidity	NTU	3.3	2.2	2.2	6.9	0.66	4.1	25.5	35.0
Semivolatile Organic Compounds									
(3-and/or 4-)Methylphenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,1-Biphenyl	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2,3,4,6-Tetrachlorophenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2-Methyl-4,6-Dinitrophenol	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2-Methylphenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
4-Bromophenyl Phenyl Ether	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
4-Chloro-3-Methylphenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
4-Chloroaniline	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl Phenyl Ether	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
4-Nitroaniline	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
Acenaphthene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Acenaphthylene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Acetophenone	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Anthracene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Atrazine	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Benzaldehyde	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Benzo(a)Anthracene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Benzo(b)Fluoranthene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Benzo(ghi)Perylene	ug/L	5 UJ	5 UJ		5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Benzo(k)Fluoranthene	ug/L	5 UJ	5 U		5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Benzo-a-Pyrene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Benzyl Butyl Phthalate	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
bis(2-Chloroethoxy)Methane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
bis(2-Chloroethyl) Ether	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
bis(2-Chloroisopropyl) Ether	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
bis(2-Ethylhexyl) Phthalate	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Caprolactam	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Carbazole	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Chrysene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Dibenzo(a,h)Anthracene	ug/L	5 UJ	5 UJ		5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Dibenzofuran	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Diethyl Phthalate	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Dimethyl Phthalate	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Di-n-Butylphthalate	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U

Table A.5-2. Water Samples Collected from Residential Wells

		Roan Creek Church	Jimmy Tripp Well 157 Hunters Lane		Ronnie Bare Spring	Gene Lewis Well 135 Ore Knob Mine Road	Kenneth Bare Well 201 Ore Knob Mine Road	James Drake Well 801 Little Peak Creek Road	Mark Mallette Well 154 Golden Fox
		OK701-DW-001 7/18/2007 14:45	OK702-DW-001 7/18/2007 9:22	OK702-DW-001D 7/18/2007 9:22 field duplicate -001	OK703-DW-001 7/18/2007 10:55	OK704-DW-001 7/18/2007 13:30	OK705-DW-001 7/18/2007 14:13	OK706-DW-001 7/19/2007 17:45	OK707-DW-001 7/19/2007 18:20
Di-n-Octylphthalate	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Fluoranthene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Fluorene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Hexachlorobenzene (HCB)	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Hexachlorobutadiene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene (HCC	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Hexachloroethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Indeno (1,2,3-cd) Pyrene	ug/L	5 UJ	5 UJ		5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Isophorone	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Nitrobenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
n-Nitroso di-n-Propylamine	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
n-Nitrosodiphenylamine/Dipheny	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Pentachlorophenol	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
Phenanthrene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Phenol	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Pyrene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Benzo-a-pyrene Equivalents	ug/L	6.6 cal	6.6 cal		6.6 cal	6.6 cal	6.6 cal	6.6 cal	6.6 cal
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroetha	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	ug/L	UR	UR		UR	UR	UR	UR	UR
2-Butanone	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U		10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Bromochloromethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Bromomethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Carbon disulfide	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	ug/L	5 U	5 U		5 U	5 UJ	5 U	5 U	5 U
Chlorobenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Chloroethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Chloroform	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Chloromethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Cyclohexane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	ug/L	5 UJ	5 UJ		5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Ethylbenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
m,p-Xylene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Methyl acetate	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Methylene chloride	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
o-Xylene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Styrene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	ug/L	5 UJ	5 UJ		5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Vinyl Chloride	ug/L	5 U	5 U		5 U	5 U	5 U	5 U	5 U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
NA-Not Analyzed.
B-either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
R-Data were rejected and considered unusable.
cal-value was calculated

Table B.6-1. QA Water Samples.

		OK-QC-BF-01 7/19/2007 19:12		OK-QC-PB-01 7/19/2007 19:12		OK-QC-TW-001 7/19/2007 8:34		OK-QC-TW-02 7/19/2007 19:10	
Metals		*Total*		*Total*		*Total*		*Total*	
Aluminum	ug/L	50	U	50	U				
Antimony	ug/L	0.5	U	0.5	U				
Arsenic	ug/L	1.5	U	1.5	U				
Barium	ug/L	0.5	U	0.5	U				
Beryllium	ug/L	0.1	U	0.1	U				
Cadmium	ug/L	0.1	U	0.1	U				
Calcium	ug/L	100	U	100	U				
Chromium	ug/L	2.1	B	5	U				
Cobalt	ug/L	0.1	U	0.1	U				
Copper	ug/L	0.2	U	0.2	U				
Iron	ug/L	21.9	J	10	U				
Lead	ug/L	0.5	U	0.5	U				
Magnesium	ug/L	5	U	5	U				
Manganese	ug/L	1	U	1	U				
Mercury	ug/L	0.03	U	0.03	U				
Nickel	ug/L	0.5	U	0.5	U				
Potassium	ug/L	80	U	80	U				
Selenium	ug/L	1.5	U	1.5	U				
Silver	ug/L	0.2	U	0.2	U				
Sodium	ug/L	80	U	80	U				
Thallium	ug/L	0.3	U	2	U				
Vanadium	ug/L	3	U	3	U				
Zinc	ug/L	2	UJ	2	UJ				
Hardness	mg/L	2.0	UJ	2.0	UJ				
Cyanide									
Cyanide	ug/L			1.5	U				
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L					5	U	5	U
1,1,2,2-Tetrachloroethane	ug/L					5	U	5	U
1,1,2-Trichloro-1,2,2-trifluoroetha	ug/L					5	U	5	U
1,1,2-Trichloroethane	ug/L					5	U	5	U
1,1-Dichloroethane	ug/L					5	U	5	U
1,1-Dichloroethene	ug/L					5	U	5	U
1,2,3-Trichlorobenzene	ug/L					5	U	5	U
1,2,4-Trichlorobenzene	ug/L					5	U	5	U
1,2-Dibromo-3-chloropropane	ug/L					5	U	5	U
1,2-Dibromoethane	ug/L					5	U	5	U
1,2-Dichlorobenzene	ug/L					5	U	5	U
1,2-Dichloroethane	ug/L					5	U	5	U
1,2-Dichloropropane	ug/L					5	U	5	U
1,3-Dichlorobenzene	ug/L					5	U	5	U
1,4-Dichlorobenzene	ug/L					5	U	5	U
1,4-Dioxane	ug/L						UR		UR
2-Butanone	ug/L					10	U	10	U
2-Hexanone	ug/L					10	U	10	U
4-Methyl-2-pentanone	ug/L					10	U	10	U
Acetone	ug/L					10	U	10	U
Benzene	ug/L					5	U	5	U
Bromochloromethane	ug/L					5	U	5	U
Bromodichloromethane	ug/L					5	U	5	U
Bromoform	ug/L					5	U	5	U
Bromomethane	ug/L					5	U	5	U
Carbon disulfide	ug/L					5	U	5	U
Carbon tetrachloride	ug/L					5	U	5	U
Chlorobenzene	ug/L					5	U	5	U
Chloroethane	ug/L					5	U	5	U
Chloroform	ug/L					5	U	5	U
Chloromethane	ug/L					5	U	5	U
cis-1,2-Dichloroethene	ug/L					5	U	5	U
cis-1,3-Dichloropropene	ug/L					5	U	5	U
Cyclohexane	ug/L					5	U	5	U
Dibromochloromethane	ug/L					5	U	5	U
Dichlorodifluoromethane	ug/L					5	UJ	5	UJ
Ethylbenzene	ug/L					5	U	5	U
Isopropylbenzene	ug/L					5	U	5	U
Methyl acetate	ug/L					5	U	5	U
Methyl tert-butyl ether	ug/L					5	U	5	U
Methylcyclohexane	ug/L					5	U	5	U
Methylene chloride	ug/L					5	U	5	U
Styrene	ug/L					5	U	5	U
Tetrachloroethene	ug/L					5	U	5	U
Toluene	ug/L					5	U	5	U
trans-1,2-Dichloroethene	ug/L					5	U	5	U
trans-1,3-Dichloropropene	ug/L					5	U	5	U
Trichloroethene	ug/L					1.9	J	5	U
Trichlorofluoromethane	ug/L					5	UJ	5	UJ
Vinyl Chloride	ug/L					5	U	5	U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.
J-Identification of analyte is acceptable; reported value is an estimate.
UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
B-either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
UR-Nondetected value was rejected and considered unusable.

Table B.6-2. QA Soil Samples.

		OK-QC-TS-01 7/17/2007 14:49	OK-QC-TS-02 7/18/2007 14:04	OK-QC-TS-03 7/19/2007 12:32
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	6.1 U	7.3 U	15 U
1,1,2,2-Tetrachloroethane	ug/L	6.1 U	7.3 U	15 U
1,1,2-Trichloro-1,2,2-trifluoroetha	ug/L	6.1 U	7.3 UJ	15 UJ
1,1,2-Trichloroethane	ug/L	6.1 U	7.3 U	15 U
1,1-Dichloroethane	ug/L	6.1 U	7.3 U	15 U
1,1-Dichloroethene	ug/L	6.1 U	7.3 U	15 U
1,2,3-Trichlorobenzene	ug/L	6.1 U	7.3 U	15 U
1,2,4-Trichlorobenzene	ug/L	6.1 U	7.3 U	15 U
1,2-Dibromo-3-chloropropane	ug/L	6.1 U	7.3 U	15 U
1,2-Dibromoethane	ug/L	6.1 U	7.3 U	15 U
1,2-Dichlorobenzene	ug/L	6.1 U	7.3 U	15 U
1,2-Dichloroethane	ug/L	6.1 U	7.3 U	15 U
1,2-Dichloropropane	ug/L	6.1 U	7.3 U	15 U
1,3-Dichlorobenzene	ug/L	6.1 U	7.3 U	15 U
1,4-Dichlorobenzene	ug/L	6.1 U	7.3 U	15 U
1,4-Dioxane	ug/L	120 U	150 U	300 U
2-Butanone	ug/L	12 U	15 U	30 U
2-Hexanone	ug/L	12 U	15 U	30 U
4-Methyl-2-pentanone	ug/L	12 U	15 U	30 U
Acetone	ug/L	23	15 U	30 U
Benzene	ug/L	6.1 U	7.3 U	15 U
Bromochloromethane	ug/L	6.1 U	7.3 U	15 U
Bromodichloromethane	ug/L	6.1 U	7.3 U	15 U
Bromoform	ug/L	6.1 U	7.3 U	15 U
Bromomethane	ug/L	6.1 U	7.3 U	15 U
Carbon disulfide	ug/L	6.1 U	7.3 U	15 U
Carbon tetrachloride	ug/L	6.1 U	7.3 U	15 U
Chlorobenzene	ug/L	6.1 U	7.3 U	15 U
Chloroethane	ug/L	6.1 U	7.3 U	15 U
Chloroform	ug/L	6.1 U	7.3 U	15 U
Chloromethane	ug/L	6.1 U	7.3 U	15 U
cis-1,2-Dichloroethene	ug/L	6.1 U	7.3 U	15 U
cis-1,3-Dichloropropene	ug/L	6.1 U	7.3 U	15 U
Cyclohexane	ug/L	6.1 U	7.3 U	15 U
Dibromochloromethane	ug/L	6.1 U	7.3 U	15 U
Dichlorodifluoromethane	ug/L	6.1 U	7.3 U	15 U
Ethylbenzene	ug/L	6.1 U	7.3 U	15 U
Isopropylbenzene	ug/L	6.1 U	7.3 U	15 U
Methyl acetate	ug/L	6.1 U	7.3 U	15 U
Methyl tert-butyl ether	ug/L	6.1 U	7.3 U	15 U
Methylcyclohexane	ug/L	6.1 U	7.3 U	15 U
Methylene chloride	ug/L	6.1 U	7.3 U	15 U
Styrene	ug/L	6.1 U	7.3 U	15 U
Tetrachloroethene	ug/L	6.1 U	7.3 U	15 U
Toluene	ug/L	6.1 U	7.3 U	15 U
trans-1,2-Dichloroethene	ug/L	6.1 U	7.3 U	15 U
trans-1,3-Dichloropropene	ug/L	6.1 U	7.3 U	15 U
Trichloroethene	ug/L	6.1 U	7.3 U	15 U
Trichlorofluoromethane	ug/L	6.1 U	7.3 U	15 U
Vinyl Chloride	ug/L	6.1 U	7.3 U	15 U

U-Analyte not detected at or above reporting limit. The number is the minimum quantitation limit.

UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.

APPENDIX B

Field Logbooks and Sample Data Sheets
(electronic, PDF files)

Field Sample Data Sheets

Book 1: Surface Water, Sediment, Floodplain Soils
Book 2: Surface Water, Sediment, Floodplain Soils
Book 3: Surface Water, Sediment
Book 4: Soil & Mine Waste – Tailings Impoundment and 19th Century Mine Area
Book 5: Soil & Mine Waste – Tailings Impoundment and 19th Century Mine Area
Book 6: Soil & Mine Waste – Former Mill Area
Book 7: *not used*
Book 8: Residential Wells

Field Logbooks

Tom Moyer (B&V)
Michael Johnsen (B&V)
Brian Striggow (EPA)
Sharon Matthews (SESD)
Mark Bean (SESD)
Doug Jager (SESD)

Flow Measurement Logbook

Brian Striggow (EPA) and Jerry Ackerman (ESAT)

Data Sonde Calibration Logbook

Don Fortson (ESAT)

>| U|c-T

Mayer
Johnsen

Depart Charlotte ~ 8[At*A.]

Stop *J- ^ M<w\r w>. S~M<AwAU ¡jQc 4o
get coolers & other sampling supplies.

AWNV^ V^N Ove \^vo\p -^ IQy'bo*** ^

"TVv\ -VoCOJl P<4^ fi^UviS - V4-6-U - re vtA^JeuatAj
loulr <jUA wa\ <5i>uv5urc^ — lg-H- i^^tSc^. •

Found Mr. Reeves and told him we would be on-site.

Went to tailings impoundment — walked to upstream area w/ ALDs to look at sampling locations.

Lunch in Jefferson - called Patty - still no answer.

Return to site - find Patty R. on Little Peak Rd. Travel to look at Peak Creek - New River confluence,

LUKL, ?c^t - }<.*>LO , U^\(\AX^U_ , QUV^

Ove Knob Br. - Peak Creek confluence. Note Sijr^ *v\ Vrt<_ "tWjt" Pd*Oc Greek. oi»-vi 0<'< tU*oW Br. is a stocked trout fishery by N.C. State. Walk up Ove Knob Br. ~ ½ mile looking @ floodplain soils & streambed.

fAwi VQ (A><vs le^s /<*m*J\^ <VY**_ _ CocW cdt
roast yard, slag dumps & other mine wastes. Find what appears to be foundations for the old smelter on South side of slag dumps & piles of charcoal SE across road. Find 4" water pipe partly exposed, possibly heading toward shaft - unclear if this is connected to smelter. Smelter (?) area has blocks of cut stone (foundations?) and bricks, also railroad rails placed vertically into ground.

Meet Jennifer Wendel, Brian Staggow, and other SESD personnel on-site ~ 4 PM.

Tour tailings area & old mill site w/ Jennifer. Depart ~ 6 PM to find Staggow w/ flat tire. Assist in changing it & depart site ~ 6:45 PM.

IvAAJs^^OvA C-

7/17/07

Tom Moyer
Sharon Matthews
Don Rortson

Depart hotel - 7:05 AM

NA&b \<' WA>wo o.U foCiG-o^j H ^Jj —*<~*"S

+-\AAA SVrtVv^v £&*>vP .Vet" UP %£>/ f-vvCXWyyn, —'

took pictures, departed site & notified Jennifer Wendel. She called Sheriff

Accompanied deputies to tailings. Following their investigation, returned to base @ 11:30 A.

Went to lunch. 11:30 - 12:15

?-e^«v\ Vo -fcwU^s — WtM- <rv^ ^xx~^. £&^c

Collected OK 358-WA-001 @ 12:25 near base of dam on centerline

OK 357-WA-001 @ 12:40 mid dam

OK 356-WA-001 @ 13:00 near crest

Thunderstorm w/ heavy rain causes runoff from face of dam. Depart until storm passes.

Return to site @ 14:30

Collect OK 355-WA-001 @ 14:40 about 1/3 of way from crest to distal pond

OK.3S"!> -\MA -C<H O a. fld> A<fk.

OI 5S1--VAiA-co\ © girt ak^ Vj of- -^ to distal pond

OiL K^-\AJA-QQ\ © \S-3o \~LAV> dUiUS pevj,

OK 351-WA-001 @ 16:40 at entry point to impoundment.

OK 352-WA-001 @ 16:55 - collected near base of gully inlet to pond.

OK 300-SL-001 @ 17:25 - background soil on steep hillslope SE of pond in previously logged area.

OK 301-SL-001 @ 18:00 - background soil in previously logged area, now wooded west of dam

^ptwf lib e i'ioo

Thomas C. [signature]

7/18/07 »l>-ᵛrᵛ '/fWK<^.

Depart hotel 7:15

Spend most of AM flagging locations

(PS OvC^1% o^-Sff, OtSv^, QK>5tH, •cti<a2iQ|

i>W '^£>.

Also meet w/ Mr. Roten – land owner to N.

Collect OK555-WA-001 @ 11:25 from pile of calcine – like mat'l E side of road

Break (-OV ^ - c K

Begin work on roast yard area – Note red staining on ground in two rows indicative of roasting piles – most mat'l graded off.

Collect OK552-WA-001 @ 13:10 from roaster pile

Collect OK551-SL-001 @ 13:45 from SW margin where erosion would carry mat'l.

Collect OK554-SL-001 @ 1430 from N side in base of small gully.

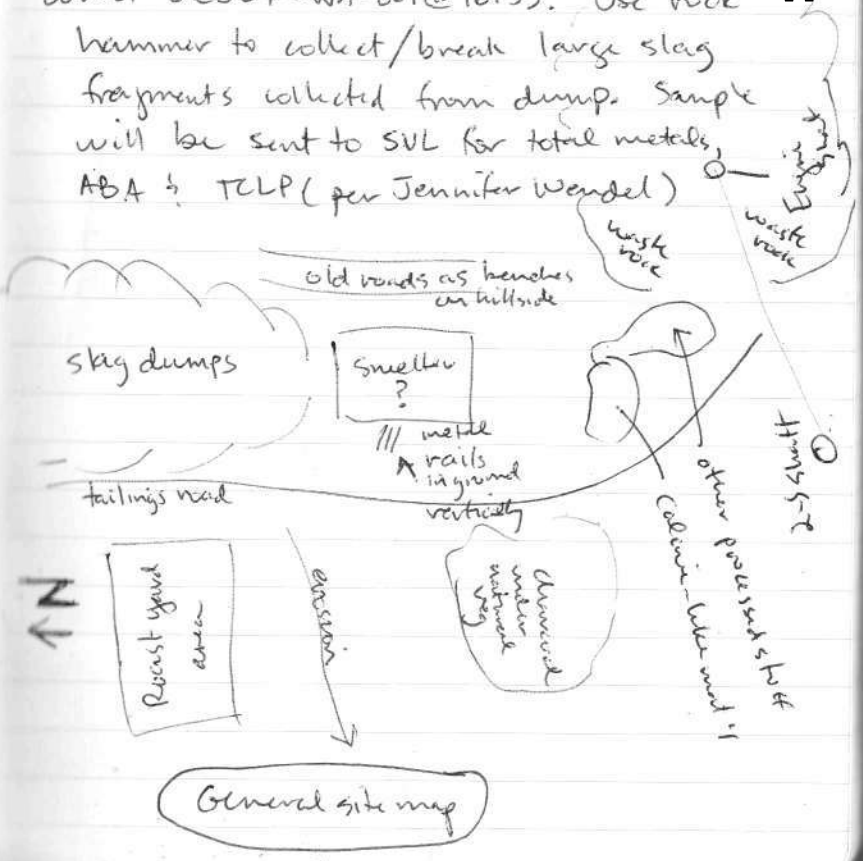
Moved station OK553 – this is now a Christmas tree plot – will use sample for old smelter.

Eliminated OK516 – Christmas tree farm.

Collect OK553-SL-001 from within center of area believed to be the

old <Srvw^6kv, CcA-UcV <& VS'^S

Collect OK557-WA-001 @ 16:55. Use rock hammer to collect/break large slag fragments collected from dump. Sample will be sent to SVL for total metals, ABA & TCLP (per Jennifer Wendel)



Collect OK SS8-WA-001 @ 17:45 from slag dump, N end of dumps.

Field clean equipment, return to base @ ~ 18:30?; Depart site @ 19:00

7/19/07

Scott Moya, Martin, Shawn Matthews Steve Zoufaly (NC)

Begin by collecting samples flagged previous day -

OKS12-SL-001 @ 8:25 - pile of mill-processed mat'l E of engine shaft, S of trend of shafts

OKS11-SL-001 @ 8:40 - waste rock pile w/ some chunks of sulfide-rich ore - S of Engine shaft

OKS13-SL-001 @ 9:05 - waste rock dumps N & a little E of engine shaft. Also collect field dupe here

OKS14-SL-001 @ 9:35 - waste rock dump N & a little W of Engine shaft.

Collect OKSSO-WA-001 - 11:15 - small pile & shaft 2-S. Waste rock, mostly schist

NO GPS due to trees - created tape & Brunton map to center of collapsed shaft,

Break for lunch - trade out Matthews for Dan Fortin

road to tailings. Some sort of crushed, roasted mat'l - origin unclear.

- Drop off samples & reload supplies - Sign COC,

along mineralized trend. Shoot N64E being follow b 4fpJ trail thru woods w/ large rhododendrons. Hard to find unequivocal undisturbed

tape & brunton map from 2-S shaft

waste rock adjacent to ADS - some with white precip. (mound has deer stand)

@ 14:45

Collect OK519-SL-001 - In area shown during Dec. site visit as area w/ ALDs.

&.V4V40

Collect OK518-SL-001 - base of deep narrow E-trending gully, N of ALD creek - slag observed on bench ~60 ft upslope to N.

- Trade Zoifaly to Mike Johnson -

Collect OK517-SL-001 - base of steep gully downslope & a little N of slag sample OK558 @ 16:30. Collect soil field dupe.

Collect OK515-SL-001 in modified ditch draining from roaster area. This area has been graded & now carries erosion from roaster area. Original drainage has

Wxw 6o\rfc«-cA ffv*^* 6, VJijo_____

Collect soil bkg OK500-SL-001 @ 17:30 - hard to find undisturbed ground due to X-mas tree farms. W of roaster area, S of farm.

Co\Kick^c\ o\g5oi-SL-oo\ <g yguo -

^7vjp)poS-tAs k ^ <*~ t^v>wf^iAv»e^ -W^VNA. +.

Shafts NE of en ir*-- shaft are

jGo^vUjWcr^M Q-v**> ^y^n^jv^ — fo C-Loype-A yoa-Jl

to NE into trees. We are somewhere on slope above adits. A pure guess for location.

L»UlWs. e ^ ^ ' i ****** *~ \Kxl^vw U> "Wi-V.

@ 19:00. Depart site ~20:00

Thomas C. Ya

Additional notes from 7/19 -

ilMe^ Uc^^ ot^fc- Sceyt (6-PS loc^Jy^

|_U</v-is ^*vs j^v^ j>£ cc^dKv- < U^L » tfcs tot- >

of filamentous algae & some orange iron floc.

few* jvs ov^^ ot -iro <u\fs. twjt- A<-<i -tw

small perennial stream draining the ALD area. Seep 2 - limestone (2") on ground - water flows atop LS for ~100-150 ft.

\feci L U«k f*<c^p plus eSLgJL, LS >t 6o«A4 ^»/

green (copper) salts.

7/20/07

Depart hotel for site ~ 7:15A. Purpose is to show ALD seeps 1 & 2 to Jennifer <Wv<l Lc^f-k^ ^ V* Urol «rJr yU>y,eA 'S'^wf at inlet to tailings pipe.

Walked to ~~inlets~~ ALD outlets while Stragjow launches boat to sump. Stragjow reports the cause of the blockage is unknown.

Accompanied Jennifer to visit Mr. Prewitt at gas station / lunch place. He apparently has access to the house of the former mine nurse. The house reportedly contains lots of files / documents regarding the mine. He reports the house contains a lot of boxes & that the roof is partly caved. He plans to see what they contain at some pot^J* J wi,^ Ut u? know.

Return to hotel to check out.
Depart Jefferson ~ 11:45A.

Thomas C. Hegg

CONTENTS

PAGE! . REFERENCE DATE

It

Rite in the Rain®

ALL-WEATHER WRI TING PAPER

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Broomfield, co 80020

Phone- -&£*)- ._?ZO_r 49.25--

Project ORE KNOB MINE
Jefferson, NC
—AsU« G*UB-&-

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J

7/17/07

%6(HU ^rk* N-*^ Klyv JUO^^S^A
of Peak Creek confluence
~2000'; ~1000' downstream of
£lcM% ^lo^-br****^-.

5 f£** ^{s}i^KA.&&^*~v*Jr}
1 t^jllLS C*IL*£**L. o^s, Lzf-t
L><h^k, rj\h+ btvikf *~d rjvcv^
center.

-fty*e

0koZ&-ST>-66l \14S
ok026-SD-002 1210
ok026-SW-001 1232
ok026-SW-002 1310
ak^^^O-flflS 122.^

NOTE: sediment collected only on right bank (bank that
15 impacted by Peak Creek) and river center.

* Rain started @~1315; SW samples in River will not be collected today.

7-/tfr/afr_____ _ _____

South Fork New Rim upstre*-«*-v
of Peak Creek confluence
(~1000')

0t^<9"ZO-sj) ~<JDJ____/5^/5"

SW not collected at this time due to storm event this afternoon.

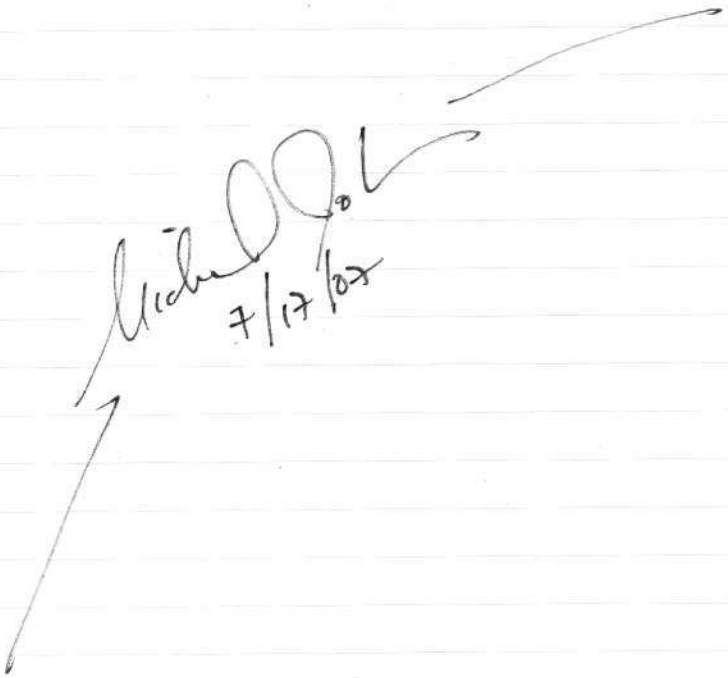
" fkbdflal^ $&ll * (j>e*k)PY\^J*L
confluence of Little Peak
i?rc*J^ ~^_P-*~I^ C^*^-
~60' above confluence along banks of Little Peak Creek

Ok202-SL-001 1655 R bank
OkZ03-SI-6<9f RP £ £«*lc.

7'i\lr[tPr

"Floodplain soil" located @ confluence of Ore knob branch and Peak Creek; ~120' above confl Ux_vt<>- *0<ov*| V*TA16,£ &X of Ore Knob Branch.

bkZ£>l~SL-ool *&4f* LknU.
OK200-SL-001 1805 R bank



7/18/2007 ORE KNOB

0 ^ 5 - cVe fei *EnuncL* ^1-30*
upstream of confluence w/ Peak Creek. *Ore- kn^b Bf^«^L looks* settled following yesterday's storm.

Temp (°C)	17.52	Mantis/Eureka
Cond	1706 µS	
DO	6.30 mg/L	/ 71.2% sat
pH	2.69	
'TDrfc	4 4 ATZ-c	
Orp	468 mV	

fi^jz?y,* 6,7; eC?^. g: 61 /JTK,

ø925 Law Gap Creek ~10' upstream of road culvert (south side of road).
OK022-SW-001 ø925
D/co°Z2~ *sp-ooj* *files'*

SW: TAL metals, diss. metals, classicals, sVOC
SD: TAL metals, PCB, sVOC

?/lS/ff?

Little Peak Creek ~~down~~ Vf stream frXti^v

Cu-hCbe* GL- UP/ LOCO <J*f> e r e * ^ J

_~/S 1)' c/<*o>Tjh*<-~ $*"» read <= _Y_f

(L&A Gof Road)

TIME TAL, diss metals, classic, sVOCs

OK023-SW-001 1025

6k62l-$S>'00(I0&5 .imLAjjLisJtei j ^ sVOC

(atUHi JJ^X^^JS^mJHrCZi 2>-am F*rCA^

3 Ata***- $ea^£Xpr^rt!*£i*~*>l<eS _>/ £e-*0<aV

c //<? A»-^- -foe) ^ k ^ t j&brtk*.

•a

JV _J_*_W3L <^«~a 4 > s ^ j ^ - ^ - ^ & ^ 'T^L,

VLpf^r ${l&&'.

Tlddfi

C S»<^6 S;*^ ^^_l^«u4€_ ~S : 13/5

pH 7.26 ★ see next page

Jsu^ £h.VjlO_

Cond 4,863 µS

DO 2.46 ug/L

DO sat 28.88%

Turb 16.3 NTU

dgp /•?/ . V

?l\%\<Pf ,,

"JZliUhJ S 7><*~ ?^< CC^AL}

sampled two seeps along base — one in center (OK010) and one

fa t&*£(t ^<^a<?>

3M

DkOOV S^Od. /3£>

o^ o/o- s^a-oo/ 12:?8:

Field Parameters:

	£&&&	CkOtO
pH	3.78	9.05 ?★
Cond (uS)	8,520	5,676
Temp (°C)	22.89	15.60
•£?^3/1)	*£21	2.44
^ #^X ^^-		-'^#;
agPfoiyl	^	-44
Turb (NTU)	19.8	5.1

★ pH test strip was used to compare — result 4-5 pH; meter reading 9.05 — suspended sampling until it is determined if the meter is working properly.

?/'?/o>

1400 Tested our Eureka meter against another in Peak Creek near the confluence io/ Li'tfU fe«/c CrmiL. , /UHic-v ^^ h*v€ ^a*-> u>.'^ /s consistently higher in ptl as suspected.

meter TEST	our prose	ir/vu-y.
	4.7	3.1
Cond.	~150	~150

OK011-SW-001 1557

1545 Upwelling seep @ base of lower tailings dam slope

Temp	21.88°C	it.&S
Cond	894 µS	1,348
DO	1 52 ^ JL	4.93
ptl	3.43	3.61 **
Turb	tl mu	11.1
ORP	436 mV	418 mV
DO sat	4I. *#%	51.21%
	Trial 1	Trial 2

£>n/oN MJLU*~ r(r[- 3,Jf

72

H&l&r

NE pond on tailings impoundment
field parameters taken from
£0«$ie*V» ojbut, '^%> "fvSi^ S UcYC- UiA*U

pH 4.18
Temp. 26.51°C OK008-SW-001
C ^ 52^5_____U&l
DO 5.73 mg/L
ORP 416 mV
DO sat% 78.12
Turb 10.1

pond substrate is yellow/brown flocculate material, very light and suspends easily in water column,
^ (' M C w i ' -Hf^e *£#*^d -ft> St{«fc

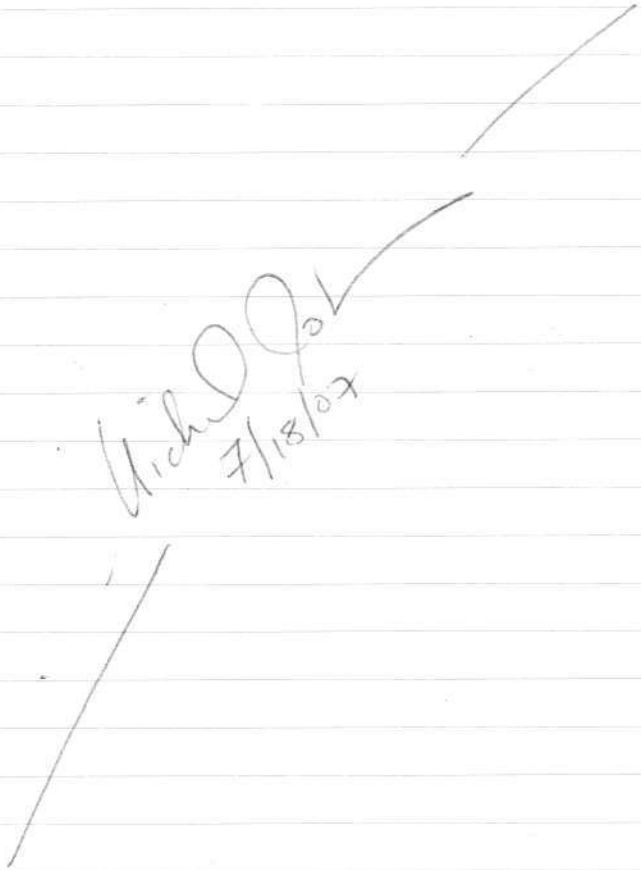
Isolated W pond in tailings impoundment
OK007-SW-001 1740

orange/brown flocculate that stays suspended in water column micaceous similar to NE pond.

7/18/07

JU6U e*rd oi Serine-'" -b'iU>>yS
impoundment pond; sample collected ~40' from N shore.

OK006-SW-001 1818



7/19/07

Ô^lffh^^Ad Pj "fan CittyS t*Uf*L»*JLt~\-**£\
tributary to the southwest corner of the tailings.

OK001-SW-001 Ø910
OK001-SD-001 Ø925

SW collected from small "falls" running over armored sed substrate orange-red-brown in color

S2> ^.'Los^Jted -v7, -Su^ Jo+tk <Prt.__
between tailings impoundment and 19th century ops - distance to be determined by GPS, but is approx (roughly) 1000' up from tailings.

7/19/07

Southwest corner of tailings impoundment, stream

•&V\~hr'i^ ^t>^ —{Uju lO^^J

s. Q-KKS-Q les collected ju^•r LM. \ur> *L _ after stream enters the small SW lobe of the tailings (approx. 50' downstream after entering tail^f.

Field parameters just u-^51re^v»«v O i tail•tV\-s (~10')

		After entering tailings:
pH	5.26	5.49
Cond	139 µS	237
Temp	15.59 °C	16.39
P*>	4*.^-1 *^A	5.68
Dosat	75.76 %	65.21
ORP	313 mV	185
Turb	1.6 NTU	3.2

Cl<OCrz_~ "Sc^ - OO \ 1025

DkooZ-SD-- <^>(li03£

7/19/07

SE corner of southern tailings impoundment pond

•»*»^>' "fyCv*~ po<-^A <*claj£_ near marshy margin.

oU-oos-s--A — C£>\ I I"2^E>

Ore)6w^ i?ranch ~400' downstream of headwaters culvert pipe.

Field parameters:

pH	2.87	2..%
Cond	2,089 µS	2,086
Temp	24,44 °e	24-2S"
Do	5.10 mg/L	5.74
DO sat	6&Q3 %	7 z . ^
m	409 mV	414
Turb.	25.0 NTU	21.2
	trial 1	trial 2

f sample

pUd\3- S60-cos t s ^ /SoS'

OKO13-SW-001D* 1310

*field dup

J

7/19/07

Floodplain soil sample off of Ore Knob Branch right bank ~500' downstream of culvert pipe, ~25' from bank

D'C ' J*j*(U

(33o 6k2D?- s-L-oo(,

1335 Ok207-SL-001D* field dup

Sediment sample from Ore Knob Branch substrate co-

h>**fcd UJ/ j&ict>j3"&4"ooi

Armored orange sandy substrate

1320 OK013-SD-001

1325 OK013-SD-001D* field dup

7/19/07

Eastern most seep on tailings impoundment dam face - base of upper slope.

pH	4.94	5.10
Cond (uS)	4,831	4,799
Temp (°C)	16.69	17.00
DO (mg/L)	3.82	2.71
DO sat (%)	39.09	30.49
^i^f^)	42~	14^
Turb. (NTU)	15.7	14.4

Oko)l^u)-oo| . jS'^O

Collected by MJ w/ field assistant Steve Zoufaly.

TAL metals, Dissolved metals, jAmVtS4 <* Waders* '5 WUu.^

MJ

^In/sir

Tailings impoundment dam face seeps. center <<.•*r and western *~f r T e Jr field parameters to check meter y>,adings from yesterday.

	Center		West
pH	£.63		3.24
Temp	15.51	(°C)	23.35
Cond	5,784	(µS)	8,473
DO	2.91	(µg/L)	^45
DO sat.	31.66	(%)	4IM
ORP	-29 (µV)		332,
Turb.	8.6	(p*TU)	4.9

t

sample location 0K010-SW-001

sample location 0K009-SW-001

fij

Vn(o^

Aluminum-rich seep upstream from SW corner pond in the tailings

t-*-^«eiu~ J—w^-i^Ti wafer U+^Cc

flow visible; white milky film

•few u>A.4^- ^^r|«ia, ^ons -fvira-'^U-

limestone coarse gravel from buried adit

pH 4.88

ill

T^f- ^Ao C^c) 2S24

C^9 9-25 GAS) '?/>

-{yo 3.^4 ^/u) 4-^i

£>Qs*-V _5"-2.64 (*£) 4 o 3

_6/fcf> 2.S2- (^\|) ^4

""ftjvk 2&2- (NUI) 2.5

sampled after these param.

Roo_/Q^.. ._*^i fc (£vrt'*d) running through limestone drainage.

0^063-SeQ "CfQ (/ t3Q

Steve Zouflay now working as field assistant

7&L >Utt*&5/> "^«*S. ./W^^s, 54wtVns_

classicals; 3 bottles

44 n

^hi(o?r _____

2nd seep near buried adit
no white aluminum scum
substrate is armored brown/orange;
better flow

Temp	18.34	°C
pH	3.73	
Cond	730	µS
DO	5.90	mg/L
DO sat	64.96	%
ORP	362	mV
Turb.	1.1	NTU

OK£<i4 - So3 - ^i V^S"

TAL metals, Diss metals
anions, TDS, TSS, Alkalinity
Acidity

Photos (2), Collected by MJ, SZ
3 b^Hb-S_____

MJ

mm

=r/tf(o>

Sediment co-located w/ sample
OK004-SW-001 from
2nd seep near buried adit,
substrate is orange armored.

Light-brown/orange fine-med
«^y#<Vv£€?l <,tl_*vdf, "TVi^^ji. ^y<*s* <<
debris, minor coarse sand,
trace fine-coarse gravel—
most armored, trace limestone
gravel not armored.
micaceous fine sand, possible
<^K^_____

OK004-SD-001 1755

Collected by MJ, SZ
2 8oz. jars for
TAL metals, sVOC

Depth - 0-3"

»p^

7

Ore Knob Mine

Ore Knob, North Carolina

Field Sample Data Sheets

Surface Water, Sediment, Sediment Pore Water

Bookl

Black & Veatch
1120 Sanctuary Parkway, Suite 200
Alpharetta, GA 30004

Project 048700.08.81

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OX Q2-(rt ' S D - Q O /

<station number> - <media code> - <sequenlial sample number>

Date: y'?/&"?' Time: U-4^ Collectors: A' J^ t>J"

Descriptive Location of Station *(if new):*

«§oo-rk T^-'k- k)<a<j (2.',ve^- Jo<~>r\&tr**>>~. w p«*«:/c Cy<a4c

confluence (~2000'). River center. (~1000' downstream of OK019- flow transect). co-located w/ OK026-SW-002

Description of Media/Sample:

Sediment: light-brown fine to medium grained sand

trace 'ne

^ • [illegible] J^veL

agba-'j [illegible] ttuifux;^ [illegible] ifi [illegible] ^ (mu^ •,u*Tm..v^,i-fc)-^3p*=fe4-

large portion of med. grains are quartz

micaceous; ~~trace sulfides~~

Depth: O^'h" Collection Method: 3-kiinU^ *&&! •s.^co.x. /HI?

Filtered Sample: Ovoybr *0.45 umfilter* <Qjscrete>r Composite?

Field Duplicate: *(Nojpr Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: ,4)

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 3^ Z£ I* 118" N Longitude: fr^4*>- jig g Elev: _____ft ★Entm point on M Ja^_ a$ y&J..

Field Parameters: r^/A

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals) Dissolved TAL Metals _ Anions TSS TDS Total CN

Total Acidity Total Alkalinity VOC (tVOC) Pest/@) Paste pH Static ABA

Other analyses:_____Total containers: 3>

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: frfCOZ^-'SP ' Q&l—

<station number> - <media code> - <sequential sample number>

Date: '*/'> fc>'* Time: IZAo Collectors: Mrr. I X T

Descriptive Location of Station *(if new):*

Sot-ttT'VJ*~J RW - Kt^ti-f t ^ k . , -"ZooO ' . (v ^ ' . V ' w v i f

C*-/*«.<.fcj C ^ CK02.4- SCO- OC'5 p**lc Ov.-e.16

~9' from bank confluence

Description of Media/Sample:

Sediment: light-brown medium to coarse sand, minor coarse gravel (sub-angular); sand sub-rounded to sub-angular; ~~possible clay~~, micaceous, ~~trace sulfides~~ mg

Depth: £ - 3 " Collection Method: £^ *;D O K I

Filtered Sample: (M?)or 0.45 *urn filter* (Discrete)or Composite?

Field Duplicate: *(Noyor Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: *fi&*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: */J JX*

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metaji Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC CSVCX^) P e s t / @) Paste pH Static ABA
Other analyses: Total containers: 3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: ^k^G'ZCo- 5 i O - Q O |

<sta(ion number> - <media code> - <sequential sample mtmber>

Date: "*" ' ? !o ^ Time: 1 2 . ^ Z Collectors: MJ, DJ

Descriptive Location of Station *(if new):*

ScuHv, l=brlc *J*~^ fS-.v*^ ^tc^v, s-Arr-^^ 0*t

Peak Creek confluence (~2020'); left bank, water depth ~16" no co-located SD

Description of Media/Sample:

surface water - clear

· filtered < 30 min. after sample collection

Depth: Y " Collection Method: ^c-^U clif

Filtered Sample: *No* or <*$A'5'umfilter)* D^scretg^r Composite?

Field Duplicate: (@or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: *a^-^^u re+Ji*^*

PH g^ * " ' SpC *CJ* g uS Temp *t£jf* C

DO 7 - ^ ^ ~ mg/L DO " % sat ORP 8 ^ mV

Turb *-i.'b* NTU "g,^. 4^c11s ^-\U

Laboratory Analyses (circle as appropriate):

Total TAL Metals) ^Dissolved TAL Metajs Anions TSS <[DS> Total CN
TotafAcidTty-, Total Alkalinity VOC (tjVOCJ Pest/PCB Paste pH StaticABA
Other analyses: Total containers: 6?

Other Notes/Sketch (or use back of sheet):

pre-rain (rain started @ ~ 1315)

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK026-SC-002

<station number> - <media code> - <sequential sample number>

Date: ~ V ^ /c^ Time: [Collectors: <£± te. ^:^~

Descriptive Location of Station *(if new):*

5oo-VU $©vW. M e ^ £-\VfcW" c l u ^ ^ V ^ " - ^ e-"f P«v«.»C
Creek confluence (~2000'); river center
co-located w/ ok026-SD-001

Description of Media/Sample:

surface water- clear
water depth ~2'
filtered < 30 min. after sample collection

Depth: ~ [Collection Method: Lp-H^ ^ ,-

Filtered Sample: *No* or <*0J5jmiJil0* (l5iscrew or Composite?

Field Duplicate: *(NQ£>X Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: ^ jves ^ e U U ****>%

pH ^- C ? * SpC L g uS Temp ^^ ^ fc C

DO Cf-7"i mg/L DO ^ % sat ORP G"7- mV

Turb - o . ± NTU

Laboratory Analyses (circle as appropriate):

][o ^ i ^ L ^ S ^ Dgsolved'tAirMgtals (^niorS* (SOD C© Total CN
][^telSjity Tof§[Alkaji^ity VOC <§VOC) Pest/PCB Paste pH Static ABA
Other analyses: Total containers: £?

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: QK02fc- SiJ -QC'3

<stalion number> - <media code> - <sequential sample number>

Date: '? I ft /c 1 Time: /2 2-b" Collectors: ^

Descriptive Location of Station *(if new):*

Soj^. ^>rk- AJe-.i ^.'.VA&^ cJ»jw«^tfc^ o^

Tea. V- O* fck ^^UewcC £ZAX)') - n^-V U^lc, - ^' "$**"*

bank; water depth 1' co-located SD - OK026-SD-002

. . . ' 1^

Description of Media/Sample: • /

Surface water - clear

filtered <3 O ^w. -"-W s ^ U ^lU^'ou^

Depth: Lf Collection Method: W>ft-li- a i f

Filtered Sample: Afo or Q^umjjlfer (Discrete or Composite?

Field Duplicate: (Nq)or Yes Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: * ^ « ^ V ^ A £(**_ v<?«*cttvM

p H ^^ SpC £T uS Temp ^ - 5 " / C

DO 9,<9/ mg/L DO //£>T £ %sat ORP ^ 0 mV

Turb C^ j NTU

Laboratory Analyses (circle as appropriate):

T6tajTAL,Metals Dissofve^TALVetals ^Cnio^ <fS§) (f5^> Total CN

To^rtTGncfity Total(^ Vt5C (SvOC) Pest/PCB Paste pH Static ABA

OtheTanalyses: Total containers: b

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OKOZJO- ST> - QQI

<stalion number> - <media code> - <sequential sample number>

Date: _ ^ g f f g ___ Time: (545 Collectors: ^ ^ 7 ^ J "

Descriptive Location of Station *(if new):*

3»«»rVi ?=ofl<i A^e*o R'.vtv CY*-^*—*- * ^ Pc-».U-
Creek confluence (~1000' - verify w/ GPS). Collected in river center (~5 meters upstream of small center island).

Description of Media/Sample:

Sediment: light-brown med.-coarse sand; minor fine
6**JLf A&+*r c-o**S^ ^KVVL-c»nU. ; n*i-*w^wfc^
micaceous fines; trace clams

Depth: ^ /.5 ' Collection Method: y y w *

Filtered Sample: (Myor 0.45 *urn filter* Discrete or Composite?

Field Duplicate: (^jbr Kes Duplicate No. and Time:

Photo Frame(s) & Camera: f3j

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: /<J /A

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Tota(TAL>letals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC (SVOJ: Pest/^CET) Paste pH Static ABA
Other analyses: Total containers: 3

Other Notes/Sketch (or use back of sheet):

Entry: N 36°25'58.080" W 81°20'52.670"

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: <&<2d2-- SL- ~ *OO* '

<statlon number> - <media code> - <sequential sample number>

Date: */**(<•» Time: J4SS Collectors: *MX* ZXT

Descriptive Location of Station *(if new):*

"Floodplain" soil on right bank of Little Peak Creek ~60' above confluence w/ Peak Creek.

Description of Media/Sample:

S,^*u* **4**^ •&- , ~ ^ u ~ ^ **•' - ^ *c* ^ " ^
twwt - -rf-^ ^H-t cr^ic ^.^.s */. to ^ k~4, ^ -A-****
(» L U'fc. « get* Uf ^ U$C ~J t»(- <-»** £*'**• * «-,»** U-~<j
densely vegetated) med. brown/lt. brown fine-med. grained sand., *j^ica-tfO* s ; root/organic matter

Depth: <0-£* Collection Method: 55 g*gg*. '*ef=Z^J

Filtered Sample: (^^)or 0.45 *wnfilter* 6jsjcrejc or Composite?

Field Duplicate: (VcTor *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: *£$}* _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude:_____N Longitude:_____E Elev:_____ft

Field Parameters: A>/A\

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Tot^fTA^Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC §Vd£ Pest/PCB Hgtej^l Su^cABA
Other analyses:_____Total containers: *3

Other Notes/Sketch (or use back of sheet):

Entry: N 36°25'42.512" W 81°20'35.167"
@ edge of road by entry location (N side of road)

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *Q\CZol>- S l - 6 6 1*

<station number> - <media code> - <sequenlial sample number>

Date: ^*/^/o% Time: I > f 3 Collectors: *MT, T>~*

Descriptive Location of Station *(if new):*

"PbtJfUtU* **»'* ** 1*4+ U*\c e£ Li-HU pe+lc Cs** IC

~60' before confluence w/ Peak Creek; ~4' up from water level in sandy, semi-level spot

Description of Media/Sample:

*Oy** U ^ - £ U L - *~*. <**rW 5 ^ ^ ^ j

roots/organic matter

Depth: P " 4 " Collection Method: Sg *\jyer, sf>oo*^-*

Filtered Sample: *(Nd\or 0.45 urn filter* Discrete or Composite?

Field Duplicate: *(Nojav* Fes Duplicate No. and Time:

Photo Frame(s) & Camera: ffi) *(fi)*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: /\j *J A*

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

TotalCLACMetals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC S^Qp Pest/1@ Pa^0H Stati^ABA
Other analyses: Total containers: 3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *OXZO \ - S L - Q O (*

<slation number> - <media code> - <sequential sample number>

Date: '^/'^ /o4- **Time:** jj^jj **Collectors:** /AT", *T>T*

Descriptive Location of Station ***(if*** *new):*

"Floodplain" soil on left bank of Ore Knob Branch ~120' above confluence w/ Peak Creek.

6' (*MJ& frow- -vo^ &£ UMOI*- ; X'S'uf -6*.- oo.-w. u . a

Description of Media/Sample:

L.\^M - **trouM/***Jo--is*\z, £»\£, <>Q~*A Oeo^e), .u;(,ca,ts

minor roots in upper 2".

Depth: 0-~£'' **Collection Method:** *SS ^ ^ w , s p u a

Filtered Sample: (Wg)or *0.45 urn filter* **Discrete or Composite?**

Field Duplicate: QVo<)r *Yes* **Duplicate No. and Time:**

Photo Frame(s) & Camera: *('i)*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude:_____N Longitude:_____E Elev:_____ft

Field Parameters: A-yA

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____**NTU**

Laboratory Analyses (circle as appropriate):

Totj^TTAL^Vletals Dissolved **TAL** Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC ^VpC Pest/PCB P^ftejH Sta(icABA
Other analyses:_____Total containers: ^

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC — ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: .Q k-Z-CO - SL - *CAJ* \

<station number> - <media code> - <sequential sample number>

Date: *WrW° ^ Time: I $6 5 Collectors: *MX*, PJ

Descriptive Location of Station *(if new):*

" ptood^Uwu-soi I ow rUU-V- U-v. |<. c^: Q re KK-OL.

Branch ~120' above confluence with Peak Creek

*M *Uv* w W U«**l, (©' U-lc. - ^ ^ ^ ^ ^ s ^

Description of Media/Sample: WV-MU- is tv,6kX *^ * y<*tf«i Slcfo £terv*«-^ ge than left bank (single steep slope)

Light-brown/orange

fine-grained sand, micaceous, root debris in top 2"

trace clay (clumped) - silty clay

Depth: 0 "c " Collection Method: -bo ^c'ct'-y- , spoon

Filtered Sample: *(No)* or ft 45 *umfilter* Discrete or Composite?

Field Duplicate: *(N6\K Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: *(3>)*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude:_____N Longitude:_____E Elev:_____ft

Field Parameters: /0 /A,

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total "(AL^letals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC S @ F Pest/PCB P^stej)H Sta^^BA
Other analyses:_____Total containers: 3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: 0«£> Z2. - Sid - QQ/

<station number> - <media code> - <sequential sample number>

Date: V^/^:f Time: $2^2-5" Collectors: Arj^ D7T~

Descriptive Location of Station *(if new):*

Low gap Creek 10' upstream of road culvert, south side of
-^&Y*^- *r,«x. wfv^t, e.**^*. ^ l:itu ?c„fc
Creek. Co-located with DKO22-SD-001.

Description of Media/Sample:

surface water - clear

Depth: £" Collection Method: Lsjj-L dtp

Filtered Sample: *No* or *OdfiimjMter* Discrete or Composite?

Field Duplicate: *(No)>v Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: (j£)

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 3gM 40. jgfK Longitude: WZQ'ZL. *>2.3" W -g Elev: ft

Field Parameters: *Jff&>*

pH £.Jl SpC 32. uS Temp /^/4 C

DO 9-,4-i mg/L DO ?3,2. % sat ORP "SI3 mV

Turb *r.g NTU //**k *N1U_ l^Jt.*

Laboratory Analyses (circle as appropriate):

To^ffTALjMetals Dissor^ecTTA)L Metals Arfiorvs T§§ 5@ Total CN
Tota^cjiJity Tota^ka|!inity VOC SgOp' ~>est/P§?5 Paste pH Static ABA
Other analyses: Total containers: 5

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: Ofcc>12~ S T> - 4 Q {

<stalion number> - <media code> - Sequential sample number>

Date: ^Mlol- Time: <fi£l4S Collectors: MX £>T

Descriptive Location of Station *(if new):*

Co-located w/ OK022-SW-001, Low Gap Creek 10' upstream of road culvert; ~800' above confluence w/ Little Peak Creek.

Description of Media/Sample:

c>e<^J*V»«cf' Cktttt —krvcoty, -p/na. "*© ^tJ^A. s<t**J, MiW ccanfr -±a-«A) minor fine gravel (sub-angular), micaceous w/ some gravel size schist flakes

Depth: 0 - 3 " Collection Method: -S£ sp>H^

Filtered Sample: (Yes or *0.45 urn filter* Djfcr^te or Composite?

Field Duplicate: *(Nopr Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: ^M

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: ^ / A

pH SpC uS Temp C

DO mg/L DO % sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Tota£fAL)vIetals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC Sf£o£ Pest/PJ^ Paste pH Static ABA
Other analyses: Total containers: \—

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *O^OZ^-^C^'OO [*

<station number> - <media code> - <sequential sample number>

Date: ?//g/k> Time: */02S* Collectors: *MT, Z>CT*

Descriptive Location of Station *(if **new):***

Little Peak Creek ~~downstream~~ upstream of confluence w/
ZLcVo < S ^ CwM., K± <*U B% U^ Cry Koo4 C O ^ « ^
if Little Peak Creek Road. ~150' downstream of road

Description of Media/Sample: ' " " ^ v e , , ^ *-»/ *GP5).* &> - ^^^U^/

•£O*"A<5L« w^«teW . c (m r *O K&Z5* - ^ p - *60* ||

Depth: 3' Collection Method: *WJU JLtp*

Filtered Sample: *No* or *0.{SumJHter* ^iscn|te or Composite?

Field Du plicate: *(Ncj)ox Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: (3j

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *%*24'3^i&iN* Longitude: g/'Z/'/gfeoV 9 Elev: ft

Field Parameters:

pH *4. ZZ* SpC ^/ff uS Temp **>?-.4l** C

DO 3-.'3 2. mg/L DO 9". £ 2 - % sat ORP 37'/ mV

Turb *Q, %* NTU

Laboratory Analyses (circle as appropriate):

Tota^fAL/Metals Dis^olvidTAJL Metals ^ A^nji (TSS? <£D§) Total CN
Tota^ci^ty Total *Cikalmity VOC S(tfo£ Pest/PCB Paste pH Static ABA
Other analyses: Total containers: ;S

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *OK6 25~ SP -QQl*

<station number> - <media code> - <sequentialsample mitnber>

Date: _^A%/oT___ Time: ___/flgg_____ Collectors: ^_____

Descriptive Location of Station *(if new):*

Co-loccckJ t^/ oiCQZS- 'Sb/ool, U-HO. Rack. O-c^k.

upstream of confluence w/ Low Gap Creek, ~150' downstream of road culvert

Description of Media/Sample:

Sed',tw<jk. ltfa-1, n>^*~* <£rtgr .*«*{•* e©#<5e *s*-vicT, ^. »MI r />;,^

sand, minor fine gravel (sub-angular), well-graded, micaceous

Depth: _ *6-1"* __ Collection Method: ___ *s* soya***

Filtered Sample: *(Nc)* or *0.45 urn filter* Digcrefe or Composite?

Field Duplicate: *(Npor Yes* Duplicate No. and Time:_____

Photo Frame(s) & Camera: _ *(j')*_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude:_____N Longitude:_____E Elev:_____ft

Field Parameters: A J / > \

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____% sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Tota^fAI^Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC Sg§£ Pest/Pt^ Paste pH Static ABA
Other analyses:_____Total containers:_____2-_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *Q\COO^{G}l-'SM -00/*

<*station number*> - <*media code*> - <*sequential sample number*>

Date: *^//BfoTt* Time: *t2*30* Collectors: *MX TxT*

Descriptive Location of Station *(if new):*

*Can-fkj&vcc *-f* 3 *SMOJUL* * ^ ^{5} **H**i- c~**s '^4Q' <£&»* &r*'ta. &fi*
base of higher tailings dam face. sample location is 20' N of slope toe; ~ 1/4 of the dam length from the W edge.

Description of Media/Sample:

seep water, minor turbidity (19.8 NTU)
substrate is armored red/orange and bright yellow jarisite, also micaceous fine sand as a thin layer on top of jarisite.

Depth: _" Collection Method: _ *bdftU fill d&£&E% ^X^ ^.^aJl "<«tl? "*

Filtered Sample: *No* or <^*45 iimffjfef*^ (piscrete>or Composite?

Field Duplicate:(^/or *Yes* Duplicate No. and Time:_____

Photo Frame(s) & Camera: *fe*_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *%"2+ 3£. # ? N* Longitude: ^V7^/^_«' Elev: ft « Kepea ^ _£$_e$\jJ

Field Parameters: p * — ^ * ^ ~ 7/19/07 ~1600

PH 3 , ^ ft.W SpC g^2<9 uS Temp Z.Z.& C ^ ^ ^ w ;

DO S'34 ^' (67) mg/L DO £5T // (61.04) % sat ORP 3>^j (332) mV s V o ^ m O

Turb *n 4* ^ N T U

Laboratory Analyses (circle as appropriate):

TotaKfAUWetals DissolvetTTApMetals Anions) <fs§ @) Total CN
Tot^TAcic&ty TotaWtfkah)iity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses:_____ Total containers: 3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: £ > £ 6 / Q - S Q - Cd(

<station number> - <media code> - <sequential sample number>

Date: ^/'ff/0^ Time: /2 S 6 Collectors: M~T, ^^

Descriptive Location of Station *(if new):*
Seep emenating from base of the tailings dam upp»«· slope; near 'l2 way (center) of dam along strike. Good flow boiling up @ source.

Description of Media/Sample:
seep water boiling up - sample collected ~2feet from source substrate some armored orange w/ yellow jarisite.

Depth: 0-3 :' Collection Method: £>ctfU J-L&

Filtered Sample: *No* or *(ffiTiimJitTeK* (Discrete)or Composite?

Field Duplicate: *(No)or Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: /z t A^^e\

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft +&?*-*• W*-

parameters taken

FieldParameters: . s J ^ f ^ r^tt^uu", f^ p*^**- <<**<&>**(** 5,51) **/1<| (»> v t&&>

pH 1-65 jc^^) SPC S ^ ^ S t) Temp l^-lc C ^ ^ }

DO 3 - ^ ^' 91) mg/L DO 2?v<33 " (31 66) %sat ORP - ' H ^ * 2) mV ^ ^ A CU ( ).

Turb >• f (8.6) NTU

Laboratory Analyses (circle as appropriate):

To^rfAL3^tals DissoJJedJAtlyletals ^nlons; (TS§ <fj5s) Total CN
Tot^Jcid'If^ Tq^TAlkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Otheranalyses: Total containers: ^>

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *flk,& if - ScO - OO /*

<station mimber> - <media code> - <sequential sample number>

Date: *•^fcsfp^-* Time: */ S S ^* Collectors: *M'S. p3~~*

Descriptive Location of Station *(if new):*
Strong upwelling seep @ base of lower tailings dam slope.
Seep water upwelling in depression (circular) ~ 6' from where
Cot0^f»<^ £fj *-i&f /vQsL~~Jl* -fifcw yt*At-H -fW -fee o/ £(«y°«- «-vd?

Description of Media/Sample: sandy flat floodplain-like surface.
seep water. Normal substrate is light-brown micaceous
sand; upwelling exposes dark brown fine ~~mud~~ grained
micaceous sand

Depth: fl-3^f/ Collection Method: £c#6. gC\.,

Filtered Sample: *No or 0A5iimfilter^>* Discrete or Composite?

Field Duplicate: *CNQ)OT Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: *(J2) -t viMo*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters:

PH 3.6/ SpC *1,14-8* uS Temp *Z2+-&L.* C *21.63 MJ*

DO ***-f.ft*** mg/L DO *Si. 2 * % sat ORP *-fig* mV

Turb *II. (* NTU

Laboratory Analyses (circle as appropriate):

TcjfaLIAL^als DissofvedTM^etals ^wonj CjS§ (£5§? Total CN
To1aLA"ocljty Tot^TAikalj^ity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: *-£*

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *OkOO'/'SCJ -PC (*

<station number> - <media code> - <sequential sample number>

Date: V^/a?- Time: /64f Collectors: *MT T>~T*

Descriptive Location of Station *(if new):*

NE pond on tailings impoundment; ~35' from W sh<?.-t
Pond substrate is yellow/brown flocculate material; very
VA-S^-*, -S\jS^-«>-TctS «2*.yiU* J^ tAj*4«-^ ^ L ^ K I , y*1«'<•«*czeoz* -pi-va. s i v t ^ Vc
silt

Description of Media/Sample:

SWft<JL<ijZ_ w c-^CV"

Depth: / Collection Method: ^>-#6 ^.^

Filtered Sample: TVo or *Q$5umjitf0r* Dlscrejeor Composite?

Field Duplicate: *(Nobv Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: /jt j

GPS Coordinates (for new discrete sample station or multiple composite substations):

Lati\ude:%°24%.6% N Longitude: *WjT2L333* S Elev: ft

Field Parameters:

pH 1 /& SpC 324 uS Temp ^ - ^ C

DO S"*3 mg/L DO gjfr/g Q/osat QRP «4/g mV

Turb /'#- / NTU

Laboratory Analyses (circle as appropriate):

TotaLIALWtals Disggh^TALjVletals ^nions) <fs|) <£5s) Total CN
TotafXckfit* Tot^Xlkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: 3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *6U()(fJ - %6j~/)f)(*

<*station mimber*> - <*media code*> - <*sequential sample number*>

Date: ^ A ? / ^ Time: *l^4p* Collectors: *M'<J. T>T*

Descriptive Location of Station *(if new):*

Isolated pond on west side of tailings impoundment. Western 1/3 of pond is where sample was collected. ~20' from N shore.

Description of Media/Sample:

surface water - turbid; substrate is light orange/brown dark brown fine sand/silt under floc very fine sand/silt (flocculate); stays suspended in water column. Even w/o disturbance, water is cloudy orange

Depth: *I* Collection Method: *LartL ai,r>*

Filtered Sample: *No* or *W.45 urn filter')* (15iscrete)or Composite?

Field Duplicate: *mojk Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: %*34'3Mrto " N Longitude: gfof3Uflf " *j* W Elev: ft

Field Parameters:

pH £& 2- SpC *CC* uS Temp 26.34 C

LX) £"3? mg/L DO *^3 fe^ %sat ORP 42-4 tnV

Turb *1 %-.*{*•* NTU *«*w*<g *sr^tfvdjJ.* -P~-

Laboratory Analyses (circle as appropriate):

TotafTALJ^tals Dissolve^TTAL^letals ^Cnjor) (TS5) <£§§) Total CN
TotafficioTjy Total ^Sr)ity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: 3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *dkOOA-S^-60i*

<*station number*> - <*media code*> - <*sequential sample number*>

Date: *"fh%j&^* Time: *J^ft* Collectors: ^

Descriptive Location of Station *(if new):*

NW ~~East~~ West end of southern pond in the tailings impoundment; station located in NW portion of the pond, approx 40' from N shore

Description of Media/Sample:

surface water - pond substrate is flocculant, very fine easily suspended, light-brown to yellow-brown very fine silt

Depth: *I'* Collection Method: *LoHtie J-/* r²

Filtered Sample: *No* or Hj5 ~~*iimjjjter*~~ (fji~~screte~~jor Composite?

Field Duplicate: *(~~Nehor~~ Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: (2)

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *'&^c24'Zi,U}N* Longitude: 57VT2?-.434 E (W) Elev: ft

Field Parameters:

pH 3.0*1 SpC S£^ uS Temp -z6.^G C

DO SJfZr- mg/L DO WW %sat ORP *411* mV

Tub 13.4 NTU

Laboratory Analyses (circle as appropriate):

T<3falJAL_MeXals Dissc^ecTTADMetals (Xnions> ([SSJ (jDS^ Total CN
T<gAcidjjy Tc^fAika1mity^~VOTj - SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: 3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: 0tCQ61 - SlO - aa\

<slaIion number> - <media code> - <seqiiential sample number>

Date: */nfo^ Time: $<\JQ Collectors: A*X D T

Descriptive Location of Station *(if new):*

small tributary running into SW corner of tailings impoundment between tailings and 19th century operations.

£>f 4tu(, +WA? Sir**-*-.* -hj U ^^_^UA "^-H^ SCAJ J^» r,

Description of Media/Sample: "^ 4*»^*lA> -K,v» v> -*W t.o.'^'tf. Cr«-(c i* southern ~4' wide.

**rjM* ^ ^ ^ cMC^W- <f»t~ **-JZA --Us* , . . . 0^

orange-brown armored substrate.

Depth: _|-2:t Collection Method: biHtk cL'.-»

Filtered Sample: *No* or *O.^umfUter^s* ^Dlscrefeor Composite?

Field Duplicate: (^/or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: /z\

GPS Coordinates (for new discrete sample station or multiple composite substations): sample col i^^^J]

Latitude: Vo'M'fi.'^ Longitude: flTfl^glSY** Elev: ft -~zs" of s^-' c6

this GPS position

Field Parameters:

pH 4.41 SpC *4 "£'*> uS Temp I'^-.OQ C

DO 7-.3Q mg/L DO ^.24 % sat QRP ggj; my

Turb Q.'Z-> NTU

Laboratory Analyses (circle as appropriate):

T^aj^LMetals Dissolved TAL Medals (Amorte (JSS) (TDS^ Total CN

To(^Acidity Tot^AlkalinJy VOC SVOC Pest/PCB Paste pH Static ABA

Other analyses: Total containers: ^

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: QkflQl - <, t> Q(M

<station number> - <media code> - <sequential sample mtmber>

Date: T,'^ /c ^ Time: ((MS Collectors: AiX, bT

Descriptive Location of Station *(if new):*

co-located w/ OKOOI-SCJ-OOI

Description of Media/Sample:

Sediment: light-brown/orange med-coarse sand w/ minor •Qwo. S#vd. Tr^<jj, ~ £ K ^ - Cccvie. o.r^v-eX. uJelV^-rocUc^, tc-V" predominently sand. micaceous

Depth: 6 - 3 " Collection Method: ^S So,

Filtered Sample: *(NO)OT 0.45 wnfilter* D^screteJbr Composite?

Field Duplicate: *(No^r Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: f\)

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: {VJ (\

pH SpC uS Temp C

DO mg/L DO % sat ORP m V

Turb NTU

Laboratory Analyses (circle as appropriate):

ToTaTTACTvtetals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC ySVOCj Pest/PCB Paste pH Static ABA
Other analyses: Total containers: '*—

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: ___ '_ a k . & 0 2 - S c a - 0 0 1

<station number> - <media code> - <sequential sample number>

Date: _ffi 1°'^ Time: ___j g ^ g _____ Collectors: ____yUiJ. ^T

Descriptive Location of Station *(if new):*

OCi-*W^ ~T»,Uv-\3 <i^f^veftV*~^KJT^ ^LO t*yn*v l*»^o, «».>^«&A c-rc*tc-
entering tailings lobe from the SW approx 50' downstream of
where the creek enters the tailings

Description of Media/Sample:

•&*<*ty*>«_ o^*.-W$_y$ U^WV irt»o-n ^{s}*^**wj <-o*»*V»^{r}«^\c.(

Depth: _"2- ' Collection Method: i*>H(.? ^ iz>

Filtered Sample: No or ^45timfUt^ <])iscretg?or Composite?

Field Duplicate: (A^M-Fes Duplicate No. and Time:_____

Photo Frame(s) & Camera:_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: Sfcgj'22. ?Z4^{N} Longitude: ftl**if 3C.Q£I " £^{UJ} Elev:_____ft

Field Parameters:

pH ST-3-6· 5.49 SpC ^ T°* 237 uS Temp /S". 5~% 16.39 C

DO fer-H* 5.68 mg/L DO ^T^ntr 65.21 % sat ORP -:%-'3 ^{10}5 mV MO X

Turb -frfer 3.2 NTU

Laboratory Analyses (circle as appropriate):

TotaK^ALMJtals Dissolv<gjAL^letals Anions, (S (fPSJ Total CN
Tota^Sy Total^jSjnity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses:_____Total containers:_____3_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: ___ O^O62,~^D-Q01 _____

<station number> - <media code> - <sequential sample number>

Date: __?(vn(W____ Tj me: ____|fr'*>£ Collectors: yUJT, *T)T* _____

Descriptive Location of Station *(if new):*

Co-located w/ ok002-SW-001

Description of Media/Sample:

Medium to coarse light brown/orange sand w/ minor

-\iv\a- -Sf-vccJ. *a^A* -fi'Vfl. -SY<MJCJ<-, "tr^CA- C£.*vv«. ^rc-vtX . SC,VJJ_

So^Vfc^c o»»f w*«"'l*fc\ • ' 0-3* r"5""-4" fa t- A««JL s^rcL*i •"£'>»-s«-v«4 u^

minor silt, platy minerals like mica

Depth: _fj-4-'*__ Collection Method: tS^ ^pco^ _____

Filtered Sample: (Mg)or *0.45 umfilter* (Discrete or Composite?

Field Duplicate: *(Nghr Yes* Duplicate No. and Time:_____

Photo Frame(s) & Camera: *[A* J _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude:_____N Longitude:_____E Elev:_____ft

Field Parameters: N | \

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____% sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Tot^TtALfotetals Dissolved TAL Metals Anions TSS TDS Total CN
TotalAodlty Total Alkalinity VOC ^ O C ^ Pest/PCB Paste pH Static ABA
Other analyses:_____Total containers:_____2_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *ft k 60S- -CcJ- Q-Q* j

<slalion number> - <media code> - <sequential sample number>

Date: ?//•?/'* Time: U ^ Q Collectors: ^ T ; *VT*

Descriptive Location of Station *(if new):*

SE corner of southern tailings impoundment pond. ~5' from pond edge near marshy region.

Description of Media/Sample:

^LMNXJJL \s*Jf*-\<^ ' pond ^u^s-tvR.fe, v* >\ UeXv-V -£(oc- UW_ material, marshy around pond edges. Flex is red. Brown.

Depth: *f* Collection Method: 4^-HG- gCtg

Filtered Sample: Afo or *(Xj5 umjiker* discrete or Composite?

Field Duplicate: *(Wojfr Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: <&?) j

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 3b*24-ab.lOS N Longitude: 51° 1123.^42 " W & Elev: ft

Field Parameters:

pH 4- *2-b* SpC *44r* uS Temp ZB. I^ C

DO S ^ 2 - mg/L DO Td *iC* %sat ORP ill mV

Turb S* 2- NTU

Laboratory Analyses (circle as appropriate):

To^aTT^Me^ls Dis^JecfTAbMetals ^uons) £s§} (fDS^ Total CN
T o t ^ ^ t y TotaTAJkaljirity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: 3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: QJCoiZ ' Su)-QO[

<station number> - <media code> - <sequenlial sample number>

Date: ^ W g ^ Time: I 3 0 S Collectors: /*X £>o~

Descriptive Location of Station *(if new):* 4&> ' /" j

Ore Knob Branch ~ downstream of culvert pipe from tailings impoundment. Creek 10' wide, collected sample in channelized portion w/ orange armored substrate.

Description of Media/Sample:

surface water

Depth: C2- " Collection Method: ^'H~U d,p

Filtered Sample: *No ox<^[45itm]i]t&t-* (frscreteJJor Composite?

Field Duplicate: *Noc«(£es)* Duplicate No. and Time: *OkOI'b ' <Sc J- 6011>* (3« Q

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^-"24,4<.°l<>N Longitude: fl*H ift,34g» 9 W Elev: ft

Field Parameters:

pH 2- • $\ SpC -Zt%^ uS Temp 2 ^ . 4 4 C

DO S"- <Q mg/L IX) 4 y. 0 3> % sat ORP 4 0 1 mV

Turb Z&O NTU

Laboratory Analyses (circle as appropriate):

•^tafTALM^ls DisseJly^d^LJvlkals ^nions^ (TS^ (TDS) Total CN
To^rS^y TotafjJkah^r~VQC SVOC "Pest/PCB Paste pH Static ABA
Other analyses: Total containers: 3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: fifcSQ)3>-5D- OP j

<station number> - <media code> - <sequenlial sample number>

Date: *'*fah>'* Time: *)%?.&* Collectors: *MT. />T"*

Descriptive Location of Station *(if new):*

Co-located w/ OK013-SW-001

Description of Media/Sample:

Light-brown/orange fine-med grained sand w/ minor silt and coarse sand and trace fine gravel. Substrate is a mix of armored orange and more light brown underlying sed. micaceous

Depth: £>-3' Collection Method: -3*5 ^»»c>£>^,

Filtered Sample: *(fao)or 0.45 urn filter* D^crete or Composite?

Field Duplicate: *No* on@) Duplicate No. and Time: O^-P l3>- £ t> - C o j t ^]32-S

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: N/A

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

TotafTALNJetals Dissolved^^)4etals Anions TSS TDS Total CN
TotaTXcidity Total Alkalinity ^VOC £VOC} Pest/PCB Paste pH Static ABA
Other analyses: Total containers: "^—

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *Qi-CZO^— Sl-flCs [*

<station number> - <media code> - <sequential sample number>

Date: ^J /19/ *°2 Time: T ^ O Collectors: *AKT,* £>T"

Descriptive Location of Station *(if new):*

"Floodplain soil" off of Ore Knob Branch, right bank

^•^50' dUs-wsV^- »t eolvc-rt" o."f*-, -^2-S' -€*— *of °6 bank

Description of Media/Sample:

0-2.* (i^rt *fartbtoi* £< r*~ -fcte- ,**..(- <?<*>•£, (S/l/Hi* KU*dL S*-**, AA^«e*wS

2 - 4" light brown/orange fine silty sand, micaceous

4 ~£ " fU««L V ^ l "^AA- SI **] 5 c l ^ * ^ Al'*K«Oi

Depth: £>-£' Collection Method: ^S *SJTC&LX*

Filtered Sample: *(Nojor 0.45 urn filter* **Discrete or Composite?**

Field Duplicate: *No* o ^ s) Duplicate No. and Time: QkZD^- - ^Z- - OOi D 1335

Photo Frame(s) & Camera: _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: %%• '42±12 N Longitude:8011^3%^^ Elev: ft

Field Parameters: N/A

pH_____ SpC_____ uS Temp_____ C

DO_____ mg/L DO_____ %sat ORP_____ mV

Turb_____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN.
Total Acidity Total Alkalinity VOC *$V0£* Pest/^g) PastTpH Static ABA^
Other analyses:_____ Total containers: ^-

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *blcAf2,-SUS-~*>C> (*

<station number> - <media code> - <sequential sample number>

Date: ^/W«fr Time: |S40 Collectors: *MX> 2>~J~~*

Descriptive Location of Station *(if new):* easternmost seep emanating from toe of upper tailings impoundment dam face. Collected (,£/ *GnbL J>V/IAA* aL emergence.

Description of Media/Sample: surface water - seep. Substrate is armored orange silty sand. Below is light-brown silty sand.

Depth: '" Collection Method: i?C>4l6 ^/<>

Filtered Sample: *No* or *(M*Lwn filteE?* Dlscrete>)r Composite?

Field Duplicate: (M>j3r Kes Duplicate No. and Time:

Photo Frame(s) & Camera: jpSj

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: %°%j 3?. H?N Longitude: &'/?'£?. W^ Elev: ft

Field Parameters:

pH fL3d SpC -4,6"3< uS Temp fi.U^ C

LX) 3.1S2* mg/L DO *'it,°')* %sat QRP 142- mV

Turb fS.^- NTU

Laboratory Analyses (circle as appropriate):

Total TAL Mstals Dissol\(|d TAg, Metals /Anions

Total Acic (^X^S t D S j Total CN

toy Total^Ciklfiflttty VOC SVOC~'i>est/PCB Paste pH Static ABA

Other analyses: Total containers: "3

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: 0 k OO'•»>-&., Vrtrt 1

<station number> - <media code> - <sequential sample mimber>

Date: wH f°> Time: [TIP Collectors: AA7C, 5 Z.

Descriptive Location of Station *(if new):*

MJ ~~Al hydroxide~~ seep upstream of SW corner pond

"^ "failles j .-VLpcowd ivc^^, v«2^vci UrrG ^^OVJO, *~^"¹^-

Milky film on water surface, runs through

Description of Media/Sample: Li*4e.*toAjiz, C C C - Y K , - ^ ^ . . ^ ^ *butri«J!*

adit.

surface

~J cvtt^

Depth: – Collection Method: J>oHit cL'p

Filtered Sample: *No* or *((45 umJUieF)* (Discrete or Composite?

Field Duplicate: *(Nojn Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters: ££ 1/ n

MJ 25.26 MJ

pH 4lSfr4A I spC =h\l- uS Temp ^ * t t - C

DO -4-b(mg/L DO CO, ^ 3 % sat ORP ^ 4 * mV

Turb ~^' h NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Djssofegd TAL^etals <£njon§ (fsj <Jp§> Total CN

Total Acidity Total Xjkalhjiry VOC SVOC Pest/PCB Paste pH Static ABA

Other analyses: Total containers: ZS

Other Notes/Sketch (or use back of sheet):

★ Continued in Book 3 (at the end) - samples 0k004-SW-001

0k004-SD-001

£r f'Y^u^-

Ore Knob Mine

Ore Knob, North Carolina

Field Sample Data Sheets

Surface Water, Sediment, Sediment Pore Water

Flood Plain Soils

Book 2

Black & Veatch
1120 Sanctuary Parkway, Suite 200
Alpharetta, GA 30004

Project 048700.08.81

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK019 - SD-003

<station mimber> - <media code> - <sequenlial sample number>

Date: 11-17-05 • - ' Time: Z o ^ ; Collectors: *A Lie. /fake "haw* . -/^-.T/.'a^^

Descriptive Location of Station *(if* ***new):*** *nr -... , L , y - i*

v ~ 1' water depth U ' * _. +r 4w *fit Pant- &*C4«y Us-u/hSrstfin*

Description of Media/Sample: *rn?<A bfo^n* med 5 •,->/

~^£

Depth: g -?" Collection Method: £5 scoop

Filtered Sample: *No* or *0.45 urn filter* /Dbcrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: *BCS 7-1/* =f= -

GPS Coordinates (for new discrete sample station or multiple composite substations):

*L*titude&'26'0S.021* N Longitude: ~~ "-. -' — E Elev:_____ft

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Toal TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC *(SVOQ* PesUfXB* Paste pH Static ABA
Other analyses:_____Total containers: ^2^

Other Notes Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OhOl*} SD 00^

<station number> - <media code> - <seqaential sample nnmber>

Date: 7/12/07 Time: l$*Ois Collectors; ~V$_t$c AC-^ - / / i - trt^„

Descriptive Location of Station (if new): "'«(ft Mi 1/ ^ wt<*' C*ofh

Description of Media/Sample: Med brn med sand w/ numerous pebbles

Gilo •- /,

Depth: "'.-"• Collection Method: SS scoop

Filtered Sample: No ox 0.45 urn filter Discrete or Composite?

Field Duplicate: {No or Yes Duplicate No. and Time: _____

Photo Frame(s) & Camera: ^"^ BCS 7-17

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 0/, L , tac N Longitude: _____ E Elev: _____ ft

Field Parameters:

pH _____ SpC _____ uS Temp _____ C

DO _____ mg/L DO _____ %sat ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals^ Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC QSVOC, Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: Z?

Odier NotesSketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK01 -' £D QO\

<station number> - <media code> - <sequential sample number>

Date: 7-17-07 Time: l!) -£"T" Collectors: ~?~v.i>^a/ AcKcr^p,^

Descriptive Location of Station *(if new):*

~30' fm Leftbank ~2' water depth

Description of Media/Sample: ^J b(.^n ^eJ ^ /fMC » ^ _ Several small pebbles

Depth: ""2 " Collection Method: SS Scoop

Filtered Sample: *No* or *0.45 um* *filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: -*"> BCS 7-17

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: OK019 N Longitude: _____ E Elev: _____ ft

Field Parameters:

PH _____ SpC _____ uS Temp _____ C

DO _____ mg/L DO _____ % sat ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC £VOC Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: -2.

Odier Notes, Sketch (or use back of sheet):

ORE KNOB MINE, NC — ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: _____

<staiion number> - <media code> - <sequenlial sample mimber>

Date: 7-17-07 Time: *I[1])', fa* Collectors : _____

Descriptive Location of Station *(if new):*

*.- lO-litr •', to the J euro,, r*U •»*

east of confluence of New River & Peak CK. Mowed field

Description of Media/Sample:

grey to brown loam

Depth: *0 - 6 "* Collection Method: *SS hfll4/./ gun,^*

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *Nj?* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: *7 "yf*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *^*2f£_'y'j.2jf* N Longitude: *Hi'^- ['* W Elev: 7?9^ ft

Field Parameters:

PH _____ SpC _____ uS Temp _____ C

DO _____ mg/L DO _____ % sat ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other: _____ Total containers: _____

Other Notes Sketch lor use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: _____ - 1&H ~ 5/ - QQ (

<staiion number> - <media code> - <sequenlial sample munber>

Date: 7-17-07 Time: li • / f Collectors: _____

Descriptive Location of Station *(if new):*

*H/ O- extent**. V*HS<f P<**1* O; «*- c~Jy **-Met-** -y*(*

H«t*4,(-C{ Weed-:* «- /C ' -/*, Awit £fc £? "A M-*^

Description of Media/Sample: «• lite to med, * brown loam

Depth: *0'"b* Collection Method: 5 *ha** *Jau^y*

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *$* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: *> 10* 11 _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^/5*?£; N Longitude: *rT"j -•• 7J W* Elev: *T^^T* ft

Field Parameters:

pH_____ SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Tota: TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
'o^AcTaity" Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses:_____Total containers: ^L_____

Other Notes Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OKO18 SD 001

<slation number^- <media code> - <sequential sample number>

Date: __ ~ "*-/?! **Time:** / 7'l'J'^ **Collectors:** '%•„&*»*/ A„ k ?/>-«-___

Descriprhe Location of Station *(if new):*

O KOI1) ty$_{m}$„,eet ,\ $_{p}$,s(>r W qkvc rt-fct*

Cc/lt<rtr is 3~H' -t^ rt /?««£. i „ ~ i' J

J I- IT tf<IHf_ |(^ ts I ^ Witter

Description of Media/Sample: A I i i , reddish brown to brown med to fine sands w/ dark grey clay on surface

Depth: 2 "5 " Collection Method: ^5 5"-

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *Nj>* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: [3 ,> 305 I-17

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^^? '16 • VU N Longitude: j .. E Elev: 7b ' ft

Field Parameters:

pH_____ SpC_____ uS Temp_____ C

DO_____ mg/L DO_____ %sat ORP_____ mV

Turb_____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN

T«aTAciaity~^fotal Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA

Other analyses:_____ Total containers: ~J._____

Other Notes Sketch i or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: __i OK018 • ^D -r#?2._____

<station number> - <media code> - <sequential sample number>

Date: 7 ;17-0 J__ Time: / 7 : -._____Collectors:__ Str, ^M,,. / A^kes J2M*-i

De*cripti\e Location of Station *(if new):*

OK018 transect, center of stream, ~ 1½' depth

Description of Media/Sample: fev44/i /--^ *,*/ y ofc.^ <v;«„;: material

<2 5ft/^r u/ •iyy.-"ff '/-•** *precipe** *tsnat&i*

Depth: ./ " J 3" ___ Collection Method: SS Scoop _____

Filtered Sample: *No or 0.45 nm filter* Discrete or Composite?

Field Duplicate: *Noor Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: __ *l*f* _____'_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *id* /w£.y_____N Longitude:_____E Elev:_____ft

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TALMgtals Dissolved TAL Metals Anions TSS TDS Total CN
Tdial Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: <~L_____

Other NotesSketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: .. - .. - 5/7 *001*

<station number> - <media code> - <sequential sample number>

Date: 7-17-07 Time: 7'A b Collectors:

Dtscripti\e Location of Station *(if new):*

- 1-i ^ fa ^j. ;M ^ t'^-H,^/

Description of Media/Sample: reddish brown fine sands w/ mica

Depth: -^Y' Collection Method: SS Scoop

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: 16 BCS 7-17

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^ /-^-^ N Longitude: E Elev: ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

TojaJ_TAL_Metals Dissolved TAL Metals Anions TSS TDS Total CN
Tota1 Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: J2-.

Other NotesSketch i or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *0/< Oj<jf 5 \AJ 0/7/*

<slarion number> - <media code> - <sequenlial sample number>

Date: *"//(*>/* Time: *^ 3C'* Collectors: *57/-w$_Y$^ /A-..Af»^*.,v-,*

Descripthe Location of Station *(if new):*

*5 ' •/"« U-fif U*l & 6^°i« father*

Description of Media/Sample: *-. ,*
Jf'ttfl-,- THrlief MSccfe/:

Depth: *^/7„,,,* Collection Method: *1 *•.**.-<• . •• . „, y£ s^*At,.*

Filtered Sample: *No* or *0.45 um filler* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *0l^?'^* N Longitude: _____ E Elev: _____ ft

Field Parameters:

pH *5-$5* SpC *H5* uS Temp */ Z 6* C

DO *% • 72,* mg/L DO *JOlf* %sat ORP *H'/O-.-V* mV

Turb *9o""* NTU

Laboratory Analyses (circle as appropriate):

T^taTrAL Metals JDissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Oiher analyses: _____ Total containers: *3*

Other Notes Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *S^&itf S^y oc'2.*

<station number> - <media code> - <sequenlial sample number>

Date: ~~"* ? .-;'~~ Time: ~~9~~ - J T Collectors: ~~S,r. ,f,, A^,^,,,,~~

De>criprhe Location of Station *(if new):*

Center Stream @ OK018

Description of Media/Sample: P/faAffy *iurb.*{* *VtSCiicf*

Depth: %//*,••• Collection Method: *U,p*

Filtered Sample: *No* or *0.45 urn* *filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: OK 018 N Longitude: _____ E Elev: _____ ft

Field Parameters:

pH *3. 36* SpC *ft*6* uS Temp *17 bS* C

DO %> 73 mg/L DO *ICZ 7j* %sat ORP V76 mV

Turb ^ Z NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN

Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA

Other analvses: _____ Total containers: *p*

Other Note&Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *QlK Orf $*/ &P*>*

<station number> - <media code> - <sequential sample mimber>

Date: *7 /(«/<? 7* **Time:** *-*^r 9 HO* **Collectors:** *Srr,^**//***,*..*.*

Descriptive Location **of Station** ***(if*** *new):* fr, 1 fm right bank @ OK018

Description of Media/Sample: Slightly turbid water, y

Depth: *-^/-4/r* **Collection Method:** ,"'..., -.- „ . „ 1/< > 7

Filtered Sample: *No* or *0.£5 urn filter* Discrete or Composite?

Field Duplicate: ***No*** or *Yes* **Duplicate** No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *&&&&* N Longitude: E Elev: ft

Field Parameters:

pH *$' 2i* SpC *15 j* uS Temp */ Z 6 V* C

DO ^6 3 mg/L DO *lOhl* %sat ORP *HJ. 2.* mV

Turb 3- 2. NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
T^^AacIrry Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: _^5

Other Notes-Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: 0^ 02.1 £D Oc't

<slation number> - <media code> - <sequential sample number>

Date: —^ Time: – W-'ZD Collectors: d'Tr-.*^. /4«.//v~

Descriptive Location of Station *(if new):*

~ 100-200 yds upstream v* Peak Ck GntUwc O* l.*\e P&mkCt

Description of Media/Sample:

tV\<rcA b.'-+» >y^ S'^HcJ

Depth: 3" Collection Method: -^ ?. comp

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: / 2.

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: j f c ^ V ^ N Longitude: ff/'jgg' JXUH WElev: fl'ms*

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity .VOC. SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: 6

Other NotesSketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *03.H* *Dh&T^' 5f) && >*

<station'nttmVer> - <media code> - <sequential sample number>

Date: *~?//$'7&'7* Time: *U'00* Collectors: *'*>,,.^,y / hr.Ur^.*

Descriptive Location of Station *(if new):*

At center of little Prat CK in center

*Or- b*tuck*J. das* he.U«/ ««1 r""4 3" **fttr ^.•i^*

Description of Media/Sample: *r^J ^ 1*

W 5&mc SY* iJt **** * (a r pebbles*

Depth: *-2"* Collection Method: *^5 Scoop*

Filtered Sample: *No* or *0.45 um filter* ^Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:_____

Photo Frame(s) & Camera: *H $ 7* ;_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *fctffaffl'* N Longitude^Vff *' OH. H? V* Elev: *%71* a -ft

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC_ S.YQC Pest/PCB Paste pH Static ABA
Oher analyses: _____ Total containers: *8*

Other NotesSketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: 0&O11 5W &Ol

<slation number> - <media code> - <sequential sample number>

Date: 7V ?-$? Time: l3:0tT Collectors:

Descriptive Location of Station *(if new):*

Center of stream, ~ 1' water depth in semi-quiescent water above small drop

Description of Media/Sample: 5 ^ ^ Urkit) ^Hffs

Depth: 5uf&,-, Collection Method: /,: r. ' .-' . - . .. '.''>$>IE.

Filtered Sample: *No* or *0.45 urn* *filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: 6-- OKO/\ >.:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 0 KO'2.1 N Longitude: E Elev: ft

Field Parameters:

pH &•<%$ SpC ~7l u S / ^ Temp l%2^ C

DO ^-6X mg/L DO fC/3.^3 % sat ORP i 2H mV

Turb ff- 7 NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS J D S Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: #

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.:'-J,'7 *Sit/ OCA*

<stalion number> - <media code> - <seqnential sample number>

Date: *7'1^-07* Time: / ?-'T^ Collectors: S t v W ^ / ^ / v ^ , . ^

Descriptive Location of Station *(if new):* senter stream @ 0+017 flow transect

Description of Media/Sample: *$U-*krt** ^ bid water

y

Depth: $ M ^ t Collection Method: _£^ [illegible] / immersion

Filtered Sample: *No* or 0.45 *urn* *filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: 7, *V* :\ [illegible] 7-18

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^ j ^ 2 X L _ N Longitude: ^^ *^-Stc* E Elev: *777^*

Field Parameters:

pH *3-3* SpC [illegible] uS Temp / ^- *C* C

DO *% i2* mg/L DO *lOl.K* %sat ORP *H I I* mV

Turb ^•*0* NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
JpolAcidity _ Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: _3

C*her Notes Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: Q K &}J 5P QQ \

<station number> - <media code> - <sequential sample number>

Date: 7-1 ' ' y 7 Time: H-'ld Collectors: bis,,,. / A, kvs/y>r,*

Descriptive Location of Station *(if new):*

Censes $t'eam 2' water depth

Description of Media/Sample: gre Somt lt/clay, A«r rcjj.sh W«™ 5o/%/

& orange floc material

Depth: 2" Collection Method: SS Scoop

Filtered Sample: *No ox 0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: // ^

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 0K017 N Longitude: E Elev: ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TALMetals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: 2

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: 'jjjC Q /-£ 5 \A/ 0O\

<station number> - <media code> - <seqitential sample number>

Date: 7-10-0 - -" - - 7 Time: l5:30 Collectors: '?•••< ^"^/AC ^/rfwi

De>cripti\e Location of Station *(if new):*
6 upstream of bridge @ OK016 flow Transect
6' fm Left bank

Description o f Media/Sample: > ; > ^ ^ ^ ^ ^

Depth: ^afAir Collection Method: A7;"y /'"wrfc;.; i

Filtered Sample: M? or 0.45 *urn filter* Discrete or Composite?

Field Duplicate: .$0 or Fes Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^"^' ;3 '10 N Longitude: 'rf ft 13.5*6 g Elev: 7<}5,, ft

Field Parameters:

pH 3,^3 SpC Z 3 0 uS Temp i - ^ 3 C

DO ^-2.1 mg/L LX) / Q 2 - ^ %sat ORP ^ ^ mV

Turb /L/. ^ NTU

Laboratory Analyses (circle as appropriate):

Tc^alTALJvIelals Dissolved TALJyjetals Anions TSS TDS Total CN
To^Acidjry_Jfo^Alkalinity~^VOC~ SVOC Pest/PCB Paste pH Static ABA
Odier analyses: Total containers: o

Other Notes Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *0KD If, 51// OO 2.*

<station number> - <media code> - <sequential sample number>

Date: 7-1^ ~ C/ 7 Time: / 5~ 3 'f Collectors:)-/v, **,i>s / fl*M,*tn.^

Descriptive Location of Station *(if new):*

16' fm left bank OK 16 transect

Description of Media/Sample: - i , . .
J'.yfirtf t^i:c4 wctf$_c$s

Depth: Su/ A,.. Collection Method: dipping / accession

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *0 k Q \f* N Longitude: _____ E Elev: _____ ft

Field Parameters:

pH ^JOH SpC / Zy uS Temp Z^O C

DO t-Z\ mg/L DO I.. J %sat ORP ffi ^ - T mV

Turb fp .^ NTU

Laboratory Analyses (circle as appropriate):

TotaTTAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: -J2

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *O^0\6 5a/ CC3*

<*station number*> - <*media code*> - <*sequenlial sample number*>

Date: 7-1[illegible] 07 Time: / f •' *H/)* Collectors: *Sir.^s/A- Us man*

Descriptive Location of Station *(if new):*

6' fm right bank OK 16 transect

Description of Media/Sample: 5/,^Wy *-fufbrf tm***

Depth: <>•.;:*.•. - Collection Method: *rA ,<y- •>, /,-.**.,*rs.nu*

Filtered Sample: *No* or *0.45 urn filter* JJiscrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *Q&0I6* N Longitude: E Elev: ft

Field Parameters:

pH *$.12.* SpC S"6/c•?//• uS Temp *2.1.1.* C

DO *7f>t°)* mg/L DO *9frW\'3* %sat ORP I 3 / mV

— ^ 7 ? —

Turb 5 , 2 - NTU

Laboratory Analyses (circle as appropriate):

Total TAI.-Metals QisspJyedJTALNIetpls Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: „/p

Other Note&Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK016 SD001

<station number> - <media code> - <sequential sample number>

Date: 7-15-07 Time: / ^-no Collectors:)|,,^Ai;,-/>,.>i

Descriptive Location of Station *(if new):*

6' fm left bank ~2' water depth

Description of Media/Sample: jf\ / fine brown sand w/ yellowish light floc in

so Mr ^lucrS

Depth: ^3 " Collection Method: 5 j S cs&p A

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: *JJ* <?o,-.-•

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *O K 0 16* N Longitude: E Elev: ft

Field Parameters:

pH SpC uS Temp C

EX) mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: ^-»

Other NotesSketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK016. S'P QQ2

<*stalion mtmber*> - <*media code*> - <*sequenlial sample number*>

Date: 7-18-07 Time: 16 O^ Collectors: 5T/UMMVJ /A, k.rr*,t,,,

Descripti\e Location of Station *(if new):*

*lb -/M I/'•ft- font- *u~/' v^'.rc exefifa.*

Description of Media/Sample: *fin<* ^^ 5^ ^ 5·hi *,/ y,lt^ /fc. ./-

Some grey clay

Depth: 3 Collection Method: 5 5 5r,,..

Filtered Sample: *No* or *0.45 ton filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: I -^. 7-18

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *Q{< 0 U* N Longitude: E Elev: ft

Field Parameters:

PH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

TotaTTAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: —i~

Other Note&Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: Q K 0 i6 ~ 5 P ~ OO 1

<station number> - <media code> - <sequential sample number>

Date: - - ^ 7 Time: 7~ \b- if) Collectors: Sjr, W^/ Ackerman

Descripthe Location of Station *(if new):*

6' fm right bank ~6" water depth

Description o f Media/Sample: ^j w ^ „rJ fP-/ . ^

Depth: 1 " Collection Method: 5 5 4r<W

Filtered Sample: No or *0.45 um filter* Discrete or Composite?

Field Duplicate: *No or Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: /->

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: Ot O ii N Longitude: E Elev: ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Totaf Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: "~2-.

Other NotesSketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: O^Ol^ 5 U^- U' Q(

<sta!ion number> - <media code> - <sequential sample number>

Date: / Time: / 7-'0t) Collectors: 'r-lof*a/y /rVkrfM.:

Descriptive Location of Station *(if new):*

Center of Stream @ OF 015 w 1' water depth
Pool above riffle above Ore knob Br.

Description of Media/Sample: /^ ^ ^<hff

Depth: 5 U / / ^ Collection Method: J ,•..•... , ,-y ,?>,-,-<....-,

Filtered Sample: *No* or *0.45 umfilter* Discrete or Composite?

Field Duplicate: M^or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 36°25'14.529" O^t*. N Longitude: %',': 2Ai£2 & Elev: 7 ^Y^ft

Field Parameters:

pH 7-/7 SpC 35~ uS Temp Z)>Q C

DO 7-<&J mg/L DO 5*7.Qb> %sat ORP HJ mV

Turb H-l NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: S

Other NotesSketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *- Qlh 5D CO*

<station number> - <media code> - <sequential sample number>

Date: 7 - 18-07 Time: *17 h* Collectors: 5 r / . ^ ^ */ArKti^^*

Descripme Location of Station *(if new):*

Pool immediately above OKO15 transect
~1' water depth

Description of Media/Sample: p,'tt< *f,r^^ y^J ^/)Ufifl. pebbly*

Depth: *2,* Collection Method: S ^ *Stoep*

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *$fo* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: A;

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *OKOl^* N Longitude: E Elev: ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

TjaaTL^LNletals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVQC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: 2

Other NotesSketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *Q& OH 5 \A/ O0*

<station mimber> - <media code> - Sequential sample number>

Date: 7-1[illegible] **Time:** *itf'00* **Collectors:** *'ns-va^us/4,.k/*s#u*u*

Descriptive Location of Station *(if new):*

~ 100' above Peak ck on Ore Knob Br.

Description of Media/Sample: *$\< ^ . t_u/^,c/ u/WrtS *4 - *«<' "s c/r9/ "'*

9&<o\i/,W Sample L-H*>)*

Depth: Sg *jA<t •* Collection Method: */•>-.;; <-/o c* /dii-/*:.,**

Filtered Sample: *No* or *0.45 ton filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: *OK OH <?u/ 00) O*

Photo Frame(s) & Camera: *]£* /3/SS-/-'»•

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *36*25 '/2-3SN* Longitude: *? • •' 2l-7iJiAs£* Elev: *7"\ - •••* ft

Field Parameters:

pH 2 . # f r *SvCjtfnO^* uS Temp */*) ft J* C

DO *~7>iH* mg/L DO frff.fS %sat ORP *f 9 *7* mV

Turb 2 ' 0 NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: *3 j 3 /•/•<.*

Other Notes.'Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *OK 011 $D OOl*

<station number> - <media code> - <sequential sample number>

Date: *7-tf-Ql* Time: *\%-*f* **Collectors:** *Strygow / Ackerman*

Descriptive Location of Station *(if new):*

OiA-X^ldf. v^ bene/ <(?<?•/£ franSccf*

nipST- &r 57-/,-£/«, */„7fe»»i ,'s rrtA"* nW *^/* 5cof,^,mr'*

Description of Media/Sample: *Ofq^e «\<>4* * - J < V *Soxnfo*

Depth: J Collection Method: 55 V r ,

Filtered Sample: *No* or ft 45 *um filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: *O^QIH- Sp OOl D Iff-10*

Photo Frame(s) & Camera: */ f)* *Qc^ i-,<s*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *OfcOty* N Longitude: E Elev: ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB. Paste pH Static ABA
Other analyses: Total containers: *~2~. ~Y 2-* cW

Other NotesvSketch (or use back of sheet):

Sediment worms collected in sample material

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: &?£ OZ J 5 W ' OO-L

<station number> - <media code> - <sequential sample number>

Date: ~7 - H ~V7 Time: y• 6 -?? Collectors: Sf,,~*vus ZAik.fi/- t^h*

Descriptive Location of Station *(if new):*

~2000 ft below confluence New River & Peak Ck
access to New River via Stone steps. Collect mid river

Description of Media/Sample:

Depth: b".^/^. Collection Method: J^/•/'.•> j. /*, •**/•;•-.•• ^

Filtered Sample: Afo or *0.45 urn fIter* Discrete or Composite?

Field Duplicate: (^p or *Yes* Duplicate No. and Time: *US/M$D --AS $V(fc,.*

Photo Frame(s) & Camera: *J ffst 7 - /«?*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *$b2b' tf,oo* N Longitude: *^i"2i/' H6-712.* W Elev: ft

Field Parameters:

pH 7 / / SpC ~71 uS Temp ^ • 2 - 7 r C

DO 7' 2 A mg/L LX) ^ / J ^ %sat ORP G 3 mV

Turb 7- 9> NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS^ TDS Total CN
Total Acidity- Total Alkalinity VOC SVOC Telt7PCB~~ Paste pH Static ABA
Other analyses: Total containers: ~7 *-/ >i/^t MJ/^V(-,

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: _ - c S27 50 0&1

<slation mtmber> - <media code> - <sequential sample number>

Date: _ . - •" - ." 7 Time: _ C?<1"0y^ Collectors: $ fr.'**.<, ., 2^eJ^mt_L

Descriptive Location of Station *(if new):*

ty,e{ riser «/ 2' us«i-rr Jeffl)*

Description of Media/Sample: med Sands, brown w/ small pebbles.

Depth: _ 2" Collection Method: 55 <?/-*.-•/» _____

Filtered Sample: *No* or *0.45 am filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: ___^___ to ___ ?-iy _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: _0 &c)2.~/ __N Longitude:_____E Elev:_____ft

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC j>VOC, Pest/PCB Paste pH Static ABA
Other analyses:_____Total containers: _ j2._____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 020 SW001

<slation number> - <media code> - <sequential sample number>

Date: 7-1 .7-£"? Time: 13/7 Collectors: 5?/,^^/'j, kes*,*;

Descriptive Location of Station *(if new):*

M-^ /?$_A$W $_t$ v*;J fiver dt^c Sf»J(f&(y

above confluence w/ Peak Ck Water Depth 1-2'

Description o f Media/Sample: $ j ^ ^ . j ^ ^

Depth: 5nf&cr Collection Method: A. A*, .-.-

Filtered Sample: *No* or *0.45wnjiiiej^* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: 4 Bcs 7-13

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: (Jk. 0 2.0 N Longitude: _____ E Elev: _____ ft

Field Parameters:

pH 1'£2 SpC 7^ uS Temp 25.^ C

DO T-jf mg/L DO % • *T % sat ORP 7jf mV

Turb_Ziii NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
TojaLAcidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: Z)

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *OKOO - ^US - 00 i*

<siation number> - <media code> - <sequential sample numbef>

Date: 7 ~ ;'"- ,, ? Time: i 2 (n Collectors: *$Tr.-u^-ty/AcKr.,*. *.,*

Descriptive Location of Station *(if new):*

OKO19 104' fm rt bank

Description of Media/Sample: *slukrly tirh'ef u,oCte^*

Depth: S^//^ Collection Method: *A^f'^'l*

Filtered Sample: *No* or *0J5jtm filter* Discrete or Composite?

Field Duplicate: M? or Yes Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *0^^^* N Longitude: E Elev: ft

Field Parameters:

pH *tfr 73* SpC *T7^* uS Temp25. *t>* C

DO y. *4f^)* mR/L DO / *1^* %sat ORP jj mV

Turb *Hr</* NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC ~~Pest7PCB—Faste"pH Static ABA
Other analyses: Total containers: 5"

Other Notes/Sketch (or use back of sheet):

Ore Knob Mine

Ore Knob, North Carolina

Field Sample Data Sheets

Surface Water, Sediment, Sediment Pore Water

Book 3

T *OWU* 51 *00 [*

ok^o4-su2etii
ok004 *=> oo l

Black & Veatch
1120 Sanctuary Parkway, Suite 200
Alpharetta, GA 30004

Project 048700.08.81

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID N«L: - " - " 5K/ £€?! Q07-

•station number> - <media code> - <sequential sample namber>

Dais: 7-1 " . Time: 12~>20 Collectors: 5 ^ ^ A kr jam•" t n<: Krr/nu^

Descripihe Location of Station *(if new):*

*7**' -f<* ri'ykt Iff^i-*

Descripoon of Media/Sample: - slightly turbid water

Depth: ^ : / ^ Collection Method: gt>i/f • * <? />-*\zuxsLm

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *C/KOi^* N Longitude: E Elev: ft

Field Parameters:

pH jfc z 7 ^ SPC *lO* uS Temp *2b'S'* C

0 0 ^'Jj mg/L DO *1/3* %sat ORP *2 3* mV

Turb *6 • 0* NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS T£gL£2?>»^rCty^S_ ?•
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA ^"5
Other analyses: Total containers: 3^

Other NotesSketch (or use back of sheet):

ORE KNOB MINE. NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: 1 < ***Ol3*** 5 i / ^ 3

*-**station** number> - <media code> - <sequential sample number>*

Dale: " Time: *X'-10 Collectors: *SU-'*wvs / A'-t-wi**

Descripche Location of Station *(if **new):***

60' km right bank

Description of Media/Sample: *I* Slightly 'turbid' wate

Depth: *5./•£«*** Collection Method: *ck < **ft/i** i QJ*

Filtered Sample: *No* or *OASjim filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *O&Gll* N Longitude: E Elev: ft

Field Parameters:

pH 9", 7j SpC *70* uS Temp *2$• J* C

DO *y-QI* mg/L DO *120* %sat ORP g 3 mV

Turb fT^fl NTU

Laboratory- Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anion;? TSS TDS Total CN
ToaTAcigty TouiTATKaTimty^VOC""" SVOC Pest/PCB~ Paste pH Static ABA
Other analyses: Total containers: <j

Other NotesSketch lor use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: -' «- . S ^ *' <?#i

'sutkm number> - <media code> - Sequential sample number>

Date: 7-19-07 Time: / 2- 5!) Collectors: bi '••y<?v*t- / At l<r fH< v i

Descriptive Location of Station *(if new):*

44' Km right bank

Description of Media/Sample: j *Jiohrly*

Depth: %/f*c< Collection Method: ^^MJA ?

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: &&OJ2 N Longitude: E Elev: ft

Field Parameters:

PH # .7 7 SpC 7/ uS Temp 2 5" • 2~ C

DO ^ ' (J2. mg/L DO \1Q %sat ORP / 3 mV

Turb H-3 NTU

Laboratory Analyses (circle as appropriate):

TotaTTAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: 5

Other NotesSketch (or use back of sheet):

ORE KNOB MINT. NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: - - - -J S'v/ 0'0'5~

<starion mimber> - <media code> - <seqnential sample number>

Date: 7-19-07 - Time: 1 J: HO Collectors: <\jf,o,^,y j Atkrr^^

De>cripthe Location of Station *(if new):*

2 - ^ jfm rt- b<**\£

Description of Media/Sample: dh'hh\l + i / USfTx*-

Depth: 5^K-.^ Collection Method: ^•??:** /,M#,rfsU.

Filtered Sample: *No* or *(I45itm filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: Q ko(</ 5w *u 5 D L2 "HT

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 0^0}? N Longitude: E Elev: ft

Field Parameters:

pH "7 bO SpC 72 uS Temp 2 L / ' 7 ' C

DO y 3 2 mg/L DO / / y % sat ORP 3p mV

Turb H S NTU

Laboratory Analyses (circle as appropriate):

TotaJJALMetals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity ^TotaTAlkatoi^ VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: JO (5" f ^ <J^p^)

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: & K&ZSt 1)1^

<station number> - <media code> - <sequential sample number>

Date: 7 "~<J~- 07 Time: _b L - l £ Collectors: S y ,~ ,,rf, / A i f a v ^ n

Descriptixe Location of Station *(if new):*

Narrow channel inside of breached dam

Description of Media/Sample: Clear water

Depth: Sw-huc Collection Method: _____

Filtered Sample: *No* or *0.45nm filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^ ^ (y 2 ^ N Longitude: _____ E Elev: _____ ft

Field Parameters:

pH 3-(?ff SpC 5 " ^ uS Temp 21 • 6 C

DO CHl mg/L DO 7 9 - 2 %sat ORP 5"/2. mV

Turb 0-1 NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total .Acidirv- Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: W h

Other NotesSketch I or use back of sheet):

ORE KNOB MINE. NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: 0&1Z£ 3l Q0[

<station number> - <media code> - <sequential sample munber>

Date: 7 - 1 - 07 Time: 16 00 Collectors: fr','**^ Meterman

Descriptive Location of Station *(if new):*

Grass covered sediment pile below breached dam
Flowing water @ surface throughout grass.

Description of Media/Sample: £ ^ ; „ ^ ^ *If fa* ^ y t ^ i f ^ V

Depth: Q-& Collection Method: 5 $ wan

Filtered Sample: *No* or *0.45 um filter* Discieje or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: ^ *Qc$7-I*.*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 5Qf IQ.MI N Longitude: Vl'20'Qj^lH 'E Elev: 5 7 ^ ft

Field Parameters:

pH _____ SpC _____ uS Temp _____ C

DO _____ mg/L DO _____ %sat ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

TojaHALJtfetals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: 4

Other Notes Sketch I or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No, C ^ G ? fi" S i t / Q O \

<*stalion number*> - <*media code*> - <*sequential sample number*>

Date: ' ' ;' - ',? Time: U 0 0 Collectors: ^v^e,^, /^kr*,«*,.

Descripthe Location of Station *(if new):*

Marshy area @ foot of sawmill stump mile

Description of Media/Sample: rf clear water

Depth: g f l / ^ f Collection Method: 5" 5 S'<-.v

Filtered Sample: *No or 0.45 urn filter* Jiscreje or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s)& Camera: 3 / V : /•••

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: i^lXy'<?.?,/&'N Longitude: *%)*2C'c2<2i7\tf* Elev: ^7g^ft

Field Parameters:

pH 6 ^ 3 5 " SpC 2 . / 6 uS Temp / 7 - 6 C

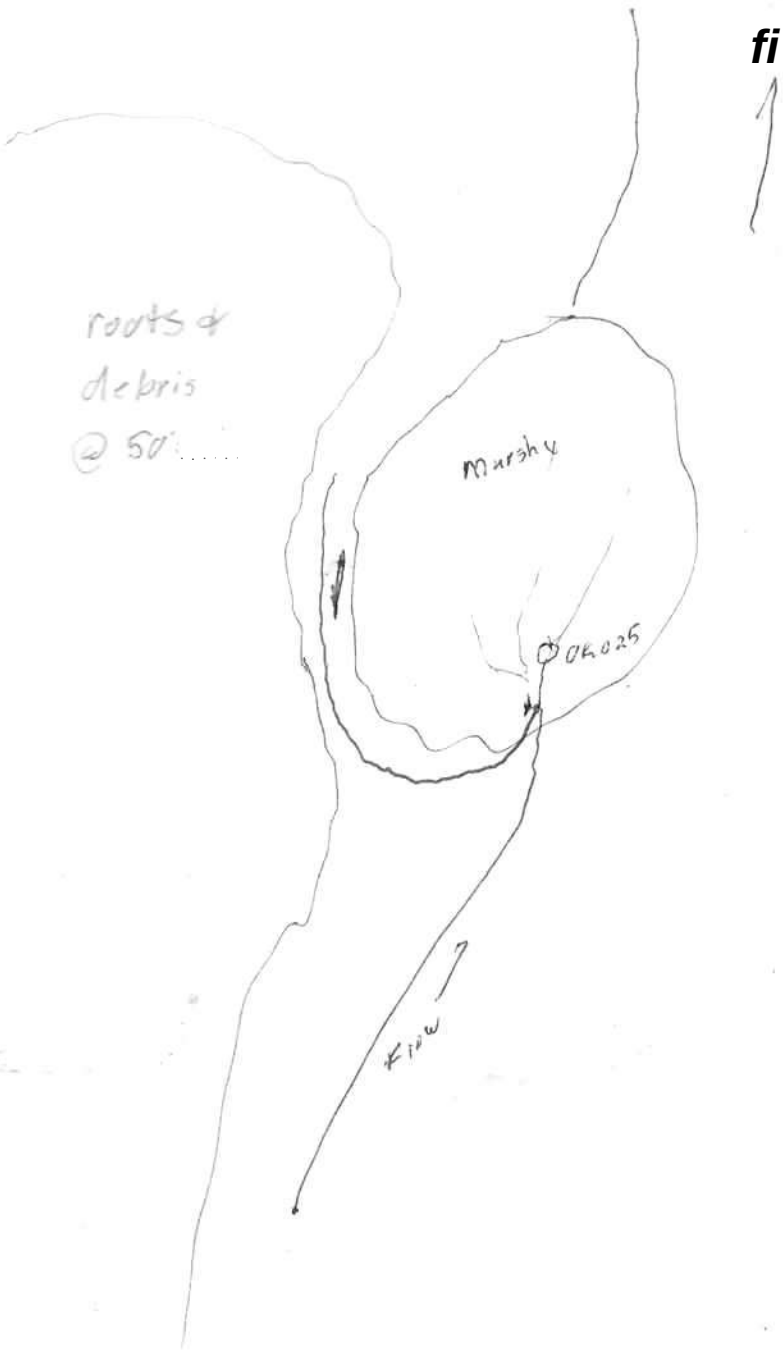
DO 1 3 6 mg/L DO %1<H7 %sat ORP V"^ mV

Turb 2' y NTU

Laboratory Analyses (circle as appropriate):

TotalJAL-Metals Dissolved TAL Metals Anigns XSS—IDS Total ££L
total Acidity Total Alkluhiiry VOC SVOC Pest/PCB. Paste pH Static ABA
Other analyses: Total containers: ^

Other NotesSketch (or use back of sheet):



76 5 L;vk
fr»k
Ck

a
H

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *fi fc 0 2 ^ 5 p Ool*

<station number> - <media code> - <sequential sample number>

Date: ~/^{e}j-^y Time: / 7' f/y Collectors: $&&&&!. /4? krr*...?1

Descriptive Location of Station *(if new):*

~30' W East of base of stump pile

Description of Media/Sample: *Uset\~re ~ S<r&(**<r<3L S*i«e£ «*-•*

numerous angular pebbles

Depth: &~~3 ' Collection Method: ^5 5i *•&

Filtered Sample: *No* or *0.45 um filter* Discrete or Composite?

Field Duplicate: *Np* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: *[(? LV? ?> "~*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *Oj^OZ)* N Longitude: E Elev: ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Tota|CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: ^f

Other Notes Sketch icr use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: <0kfl04 -S1*)-0O1

<station number> - <media code> - <sequential sample number>

Date: ?/^/°> Time: \Z?-^> Collectors: yUT, SZ-

Descriptive Location of Station *(if new):*

Seep upstream of SW corner pond in tailings impoundment near buried adit, no white film as station OkOO3, substrate is armored brown/orange, stronger flow than

Description of Media/Sample: O^ G0'£

seep water, clear

Depth: — Collection Method: ^c^U d>&

Filtered Sample: *No* or *(rfffumJjltep)* ^Discrete or Composite?

Field Duplicate://Vbj>r *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: (2)

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: N Longitude: E Elev: ft

Field Parameters:

pH ^- 3-3 SpC ^30 uS Temp t ?, 34 C

DO S".T° mg/L DQ 44. ?6 o/0sat ORP "S62- mV

Turb \• j NTU

Laboratory Analyses (circle as appropriate):

To^JpTApv^tals Diss(?fwd^L^etals (Jmon§ (fSj) tjjg^ Total CN
Toc<2ri3ky Tota^kaHr)ity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers: "5

Other NocesSketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: ____ *CM* 0 0 4 - ^»P -0O(_____

<stalion mtmber> - <media code> - <sequential sample number>

Date: __ ^*M* fgj; __ Time: ____ Q S 5 " ____ Collectors: ____ /CjJ, ggr _____

Descriptive Location of Station *(if new):*

Co-located w/ ok-004-SW-001

Description of Media/Sample:

Sediment: light-brown/orange fine-med grained sand, trace organic debris, minor coarse sand, trace fine-coarse gravel - most armored, trace limestone gravel not armored; micaceous fine sand, possible sulfide

Depth: _6 -- %"__ Collection Method: _____ <<; ^^ .^ _____

Filtered Sample: /*NOJOT* *0.45 urn* *filter* Btscreteor Composite?

Field Duplicate: //Victor Key Duplicate No. and Time: _____

Photo Frame(s) & Camera: _ (Q _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude:_____N Longitude:_____E Elev:_____ft

Field Parameters: (Vi/A

pH_____SpC_____uS Temp_____ C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total (fAL^etals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC ^*Vofc,* Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: ____ *2L _____

Other VotesSketch (or use back of sheet):

Ore Knob Mine

Ore Knob, North Carolina

Field Sample Data Sheets

Soil & Mine Waste - Tailings Impoundment & 19th Century Mine Area

Book 4

Black & Veatch
1120 Sanctuary Parkway, Suite 200
Alpharetta, GA 30004

Project 048700.08.81

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: e>£V>3 atf ooi

<station number> - <media code> - <sequemial sample number>

Date: l-\\^)o> Time: \i'-\.^ Collectors: -^VH-VN , M<jttWvos

Descriptive Location of Station *(if mw):*

Near center line if dam, about 5 feet above tailings - starter dam contact

Description of Media "Sample:

Sandy tailings - Fine to medium sand, most 2.5Y 7/4 w/ shades of

" yM/ : ^~ 2.5YR 5/8 " Mostly -i &* ~/ * * * * * * ^ ^^ « ^

Grains - no sulfides noted.

Depth: : - I - **CefcctioB** Method: -^wl<— <•

Filtered Sample: \o or ***045 mm*** ***fiber*** Discrete or Composite?

Field Duplicate: No or Y3 **Dapfecatc No.** and **Time:**

Photo Frame(s) & Camera: 2 photos

GPS Coordinates (for new discrete sample station or multiple composite substations): * K I NC State Plane 83 NAD

Latitude: J ^ J _ ^ _ _ N Longitude: jjgVogj E Elev: &TH-T ft^

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate): 2- <• "MAW* *J

3ttl TAL Metals^) Dissolved TAL Metals Anions TSS TDS (Total CN

Total Acidity "Total Alkalinity VOC SVOC Pest/PCB <£aste pH ^Static^BA

Other aoaryse>: Total containers:

Otiier Notes Sketch i or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: ov. **T -N^ - oo\

<station number> - <media code> - <sequenlial sample mimber>

Date: ^ U> [«? > Time: \.2.'-Ho Collectors: fo^ "XVN . iWtiU g<,

Descriptive Location of Station *(if new):*

Centerline of dam about halfway up face, ~ 1m below transition from tAW»*k .w^-k- wA<u·K w^

Description of Media/Sample:

Sandy tailings - fine to medium sand, mostly qtz ; rock frags w/ some

Djf"^. ^aL^.vX 4<JM~i. MojtV^ 2.-S *J 2. 4/fc h> l.-S v|t «/g -o/ Wvwov

1-Svf ?•/«*. L.-i^) -.voV ^f^^-^ V fcw»~«- k«WSw WtaJU

Depth: 0 - II IN Collection Method: v*^-*i <~,^

Filtered Sample: *No or 0.45 nm filter* 'Discrete or Composite?

Field Duplicate: *(No ox Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: •2 photos

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ffifexg N Longitude: *»*c :.q 5 E Elev: *''jlo.'ijt'*^

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

M NTU

Laboratory Analyses (circle as appropriate): ^_ *t^fa^*,)*

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB (Paste pH Static ABA
Other analyses: Total containers:

Other VotesSLescfc i or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: p'/ 35 £ -VJA -ooi

<stalion number> - <media code> - <sequential sample number>

Date: ~ :.l)o> **Time:** \3.<>o **Collectors:** F». jgjg *LM^fefoj*

De>cripti\e Location of Station *(if **new):***

centerline tailings dam ~ 2 ft below crest

Description of Media/Sample: ^ 7 "

2.5Y 6/6 to 2.5Y 4/4. Fine sandy tailings w/ some moderately indurated darker brown 2.5Y 4/4 sandy matl w/ a few % brassy sulfides

handpan-like layers ~10-12in depth

As before, mostly qtz ; rock frags w/ some yellowish opaque salts & minor sulfides

Depth: o- \1>^ Collection Method: "• • - •• -

Filtered Sample: UVb)or 0.45 *urn filter* Discrete or Composite?

Field Duplicate: *(N£* or **Fes** Duplicate No. and Time:

Photo Frame(s) & Camera: ^- v

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^ ~ l ^ e . N Longitude: _^ • <^S E Elev: 1 c f t , ^ .

Field Parameters:

Dfl SpC uS Temp C

DO mg/L DO %sat ORP mV

IM NTU

Laboratory .Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS (Total QJ

Total Acidity Total Alkalinity VOC SVOC Pest/PCB P^ste£H~"STatT^ABA^

Otber analyses: Total containers:

Other **NotesSketdi** | or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: C V~ ^ 5 - ^ / V -oM

<station number> - <media code> - <sequential sample mimber>

Date: 7 | vn- | o * Time: m."+& Collectors: BM >\ / . U ^ d W j

Descriptive Location of Station *(if new):*

About 1/3 of distance from dam crest to distal pond on tailings impo... HIMJ »r\

^Sofj r ,v> ,.[" ^ , s | ... well. South side of ... runoff , fV

Description of Media/Sample:

0 - ! ' u . . Pwv!<_ ^.vwAvv K^A»~ ... 0 - i \<j. \a* • L ^ / i - S / t S QA

frags & trace sulfide. Hard pan layer of ~1 in at base

8 - 3 in. Fine sandy tailings. Reduced N-1/N2. Qtz rich w/ rock frags + mica + heavy sulfide (<1%)

Depth: "' - : £ Collection Method: Hand auge.

Filtered Sample: *No* or *0.45 um filter* Discrete or Composite?

Field Duplicate: \'o or fis **Dvpicatt** * **aad** Time: _____

Photo Frame)si & Camera: 2 photos

GPS Coordinates (for ne» discrete sample **stabon** or multiple composite substations):

Latitude: " ' - - = • **N** Longitude: 40112 I ____ E Elev: -joi-S $/^

Field Parameters:

PH._____ 5 * _____uS Temp _____ C

DO_____ rngL DO_____ %sat ORP _____ mV

Turb _____ NTL"

Laboratory Analyses (circle as appropriaKfc

Total TAL Metals Dissolved TAL Metals .Anions TSS TDS Total CN No C... yes

Totai^clclity Total Alkalinity VOC S\'OC Pest/PCB Paste pH Static ABA

Other analyses:_____Total containers:"_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: DVL "S S t> - >JL)A– _____

<station number> - <media code> - <sequential sample mimber>

Date: -^ \\'-< }o < Time: _____ Collectors: • -„ K».. / »< n • •-,_

Descriptive Location of Station *(if new):*

18 in S of OK355-WA-001

Description of Media/Sample:

Similar to OK-355-WA-001. Hand pan ~ 7 inches

Depth: _____ **C«fcctk>n** Method: _____

Filtered Sample: No or 0.45 um filter Discrete or Composite?

Field Duplicate: Mi<x *Yes* Duplicate No. and Time: _____

Photo Frameist & ***Cxmtn:*** _____

GPS Coordinates fcrrsr* S r s N i . ~f : <^z: •" or multiple composite substations):

Latitude: _____ N l:-^r„ _____ E Elev: ___ ft

Field Parameters:

pH _____ SpC _____ uS Temp _____ C

DO _____ mg/L DO _____ °osai ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

2 containers

Total TAL Metalji Dissolved TAL Metals -.-i:-> TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC PestPCB Paste pH "^mticABA)
Other analyses: _____ Total containers: _____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: o ^ 5 4 - V/ok-oo$_t$

<slalion number> - <media code> - Sequential sample number>

Date: " [illegible] Time: 10 [illegible] Collectors: [illegible] / Matthews

Descriptive Location of Station *(ifne\v):*

\lf V % of ^Uk-m*» [illegible] 2/3 of way U. OrciV o< [illegible] -^

to distal pond center of impoundment

Description of Media/Sample:

V. Fine sandy tailings. Variegated colors 10YR5/6 in upper few inches grading down to 2.5Y 8/2 and N7/8 colors **H^< fct*. **** ****)>** [1]

opaque yellowish white grains Trace brassy sulfide. No hardpan

Depth: 0-12 in **Coflectwa Method:** —-•-• ^^./

Filtered Sample: No or 0.45 um filter Discrete or Composite 1'

Field Duplicate: No or Yes **Dvpficate** \«. **and** Time: _____

Photo Frame<si & Camera: _____

GPS Coordinate* (:".--.w dis.-.•_ sample station o- ~...::?!e composite substations):

Latitude: J L 5 2 M l ^ _ N I 11.—it = 401142 E Elev: ^^-'i ftV$_t$

Field Parameters:

pH_____SpC_____uS Temp _____ C

DO_____mg/L DO_____*osat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate i:

Total TAL Metals Dissolved TAL Metals Anxons TSS TDS _TotalCN_

Total Acidity Total Alkalinity VOC SVOC PestPCB P:>tepH Static ABA

Other analyses:_____Total containefcr-^-^

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: oyc j><.V WA, o<-\

<station mimber> - <media code> - <sequential sample number>

Date: I In (oi Time: ' Collectors: •• /'.ut|', -•

Descriptive Location of Station *(if new):*

M«w &M *~Ac • HU -gj . mk(» (U

cvU-» \ {•-(•• <\ , 4

Description of Media Sample:

0-15 in. V fine sandy tailings - oxidized 10 yr 5/6 mostly qtz w/ rock frags

-Wt, sulfide Bottom 1 inch wet . . . / . » .

15-18 in Black N1-N2 silty w/ mostly fine sand. Abundant brassy sulfides, Contact is sharp

Depth: *- g . CoAectioa Method: U--J- A, .,

Filtered Sample: No or *0.45tarn* *fiber* Discrete or Composite?

FieW Dupfcjte: No or Yes Dup&cate No. and Time:

Photo Frame*si &. *dimera:*

GPS Coordinates for r*?» ascrae sampie station or multiple composite substations):

Latitude: _JVt_l£^_N Iflmalwfr -- .: E Elev: toi-T-jr^

Field Parameters:

pH SpC uS Temp C

DO mg/L DO °-osat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate): 2 containers

Total TAL Metals' Dissolved TAL Metals *hmm* TSS TDS_ _ Total CN
Total Acidity Total Alkalinity VOC SVOC PestPCB PastepH Static ABA'
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

Note - has been raining past few hours - pond has lots of suspended light yellow sed.

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.:_____vf:_____

<station number> - <media code> - -^sequentialsample number>

Date: ___'* |'"HQ> Time: '_-____' Collectors: ^'- -^ / kt^>"

Descriptive Location of Station *(ifnen*

About 100mS of distal pond at tailings impoundment – 10m S of gully at inlet to impoundment – J--ter or clear ^ i v t

Description of Media/Sample:

0-11in 10YR 5/4 medium to fine sandy tailings. Oxidized, qtz-rich w/ rock fragments & mica. Sharp basal contact.

U-O. v^ top *£ i*.*d ;>•_ _ salt pep.._ .w^ a£ AJi/i ,' ^,5^ ^ ^ ^ o v ^ w J - f f ^

Depth: _-_-_. • CoikcriM **MrtWd:**_____r--.wl ^ K ^ ✓ fine sand

Filtered Sample: •> **or** ***<l4Smmjmter*** Discrete or Composite?

ReW **Duplicate.** *Sojf Yes* **Dapfcjt** N«L **aad** Tune:_____

Photo Frames) &. Camera: 2 photos

GPS Coordinates for ne» **ifecaar aEfie aaion** or **multiple** composite substations):

Latitude: _I'UlU____N 1 **i|ttt** -^ | E Elev: BTS.'Z^ft i--.

Field Parameters:

pH_____SpC_____uS Temp _____C

DO_____mg/L DO_____:sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate): 2 containers

Total TAL MetalsN Dissolved TAL Metals .Anions TSS TDS Total CN
TolaTAcimTy total Alkalinity VOC SVOC PestPCB ^Paste pH Static ABA^
Other analyses:_____Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: PVLSS'2--VIA -CO*

<station number> - <media code> - <sequemial sample number>

Date: [illegible] Time: H *>"; Collectors: ~^\y-^ / M - ^ U ^ ^

Descriptive Location of Station *(if new):*
NE side of gully w/water at entry point to pond at distal end of tailings pond.
Collected ~2.5 ft below top of gully, 0.5 ft above water.

Description of Media/Sample:
N2/N3 v. moist silty reduced tailings. Contains minor sulfides. Collected over 0.3 vertical feet

Depth: [illegible] **C«Bectio«** Method: Spoon

Filtered **Sample:** No or 0.45 um filter (Discrete or Composite?

FiekJ Dopfcair No or • **DwpScate** No. and Time: _____

Photo Framei s) & **Camera:** "- -...^

GPS Coordinates (tor **new** <**§KKK ample sabon** or multiple composite substations):

Latitude: IT'V-- N **Inahrarir:** --.'^ E Elev:j^UTft''^

Field Parameters:

pH _____ SpC _____ uS Temp _____ C

DO _____ mg/L DO _____ osat ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate i: 3 containers

(To5rTArN4etai^ Dissolved TAL Metajs_^nioos TSS TDS Total CN
TblaTAcidity^fotalAlkalinity VOC /SVOC PestPCB P^stfpH Static~AB>
Other analyses: _____ ^ _____ Total containers: _____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: ovL^>oo - S u - o c i

<station nutnber> - <media code> - <sequential sample mimber>

Date: 1 \ >> 1 - } Time: \1 . *L'S* Collectors: fU Hcv\ / "\c*tfh**>

Descriptive Location of Station *(if **new):***

On hillslope SE of tailings pond, heavily overgrown w/ 6-8' pine - previously timbered

Description of Media/Sample:

10YR 5/4 silty soil w/ fine sand. Some root material. Minor metamorphic rocks to ~ 1 inch (yellow-stained quartzite)

Depth: 0 -1 -^ Collection Method:)2f^^ " - ^ v

Filtered Sample: \n *or 0.45 urn filler* Discrete or Composite?

Field Duplicate: No or Yes Duplicate No. and Time: _____

Photo Frame*si £. **Camera:** No photo - too overgrown

GPS Coordinates i fat rtr* **dBoacgmyksoacBormBtepiecompasae** substations):

Latitude: - V - -<?- N ***limJmii*** -- - - E Elev: * &•* ft

Field Parameters:

pH_____ SpC_____ uS Temp _____ C

DO_____ mg/L DO_____ %sat ORP_____ mV

Turb_____ NTU

Laboratory Analyses (circle as appropriate):

^otal TAL Metals) Dissolved TAL Metals Anions JDS Total JIN
TotoT7teidity--1btal Alkalinity VOC (SVOC Pest^CB (gStTpH Stau^ABj)
Other analyses:_____ Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: Q^3o\- Si-^{C}~i

<station number> - <media code> - <sequential sample number>

Date: 3 Wl jo 3 **Time:** ' fr- - Collectors: ^ A y ^) >AK&-U> 5

Descriptive Location of Station *(if new):*

Ab»wV \bC -ICLVNA. \Ai tC 4r- ilings da- ^^ ^ & £ \TD<r.cl u^ -jv-t-«

Cc^WH t'-^^^X^'J ^"A P'-^-1

Description of Media/Sample:

10YR 4/4. Silty soil w/ minor clay. Minor rock fragments to ~1 ,v^cA-\
Minor root material. Rocks are **R -** sVv~ed quartzite

Depth: . -.- . **Collection Metfcod:** - - -.•• -^.yy

Filtered Sample: *** **or** *Q.45* ***mm*** *aker* **Discrete or Composite?**

Field Duplicate: '• **nr** ***Ta*** ***Dmpmamt*** **N«. aad** Tune:

Photo Frames) **& Camera:** 2 photos

GPS Coordinates (**for** new discrete sample station or **muhiple** composite substations):

Latitude: ***456 N Longitude: 400936 E Elev: 1^-i flf 0 Mok- p<<~Vxs

40 m to N of GPS location in trees

Field Parameters:

PH SpC. uS Temp C

DO mg/L DO % sal ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate): 3 containers

Cr^aiT^^I^Meta^ Dissolved TAL Metals **Ani**ons TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest PCB Paste pH Static ABA
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: PIC^SS -vofr-ool

<station number> - <media code> - <sequential sample number>

Date: ^(it--|bt Time: \I •- r- Collectors: \g; ''y^

Descriptive Location of Station *(if new):*

Ki *d i* •> •$*£(-, S o (•'• [illegible] mill [illegible] slag j'- . v,(r DJ •••••.- -. *A*

on hillslope 30ft above road, next to dead stump

Description of Media/Sample:

S«v»6.ct ^(Lt o (- ,, [illegible] [illegible] •'. \-''M f^*- \>-•----4 WK^u t »•• A

5R 4/6 color. [illegible] brassy sulfide. Pile is eroding downslope - very apparent [illegible] rain on 7/7.

Depth: ? -. - Collection Method: Hand •••y-•

Filtered Sample: *So* or (145 um filter Discrete or Composite?

Field Duplicate: "•o or Yes **Duplicate No. and Time:** _____

Photo Frames) & Camera: 2 photos

GPS Coordinates (for nev. dtsaae s—pie «wnn or multiple composite substations):

Latitude: Hfego N Loagi—fc: - [illegible] E Elev: ^-H- fl/u^

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%^: ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals \ Dissolved TAL Metals ^Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SYOC PesiPCB Paste pH Static ABA j
Other analyses:_____Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: o y -v^I-vg/y-oiM

<station number> - <media code> - < sequential sample number>

Date: r{V^\b\ Time: 'V " ' Collectors: -?-'---^

Descriptive Location of Station *(if **new**):*

South side of graded hillslope w/ roaster piles. W side of road — about 30 yds west of barbed wire fence

Description of Media/Sample:

Bright red mudstone with 10R4/6 to 4/8 w/ fragments of weathered / oxidized schist ~1 to 3cm. Upper surface has layer of cm-sized vesicular 5YR4/4 clasts

Depth: Collection Method: Hand auger

Filtered Sample: No or 0.45 u-n *filter* Discrete or Composite?

Field Duplicate: *So **a** Yes* Duplicate No. and Time:

Photo Frame!si & Camera: _ _ ^ _ I • • - j ^ ^ K ^ » v.. p<

GPS Coordinates (for new **decnae sample** station or multiple composite substations):

Latitude: I * - . . N **loi^ggnrir** - - E Elev: - 4 V 4 j f VM

Field Parameters:

PH SpC uS Temp C

DO mg/L IX) %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

'Total TAL Metals Dissolved TAL Metals _Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC PestPCB PastepH Static ABA
Other analyses: ^ _ ^ _ Total containers:

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE. NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.:_____• : - " - ' ..ıı›››› _____

<station number> - <media code> - <sequential sample number>

Date: 7/18/07 j _ _ Time: ——\V-H.') _____ Collectors: Dr. ·›" - v \ _____

Descripthe Location of Station *(if new):*

SW margin of roaster area, downslope where erosion would carry mat'l from the area. Upslope area has been graded/contoured w/ clean fill duvv

L)es:nprk.n of Media/Sample:

10424/4 micaceous silty soil w/ sand and small gravel of schist to ~0.5cm.

Mi\\0v VXSOt" W*A-1 " 1 .

Depth: t;-bu\ Collection Method: -•..•• —.—.

Filtered Sample: TVo or 0.45 *urn* *filter* /Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:_____

Photo Frame(s) & Camera:_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: J.il^vj N Longitude: • '--;/•; i E Elev: ' / y - M ^

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____% sat ORP_____mV

Tub_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals^. Anions TSS TDS TotalCN
Total Acidity Total Alkalinity VOC (fvOC^, Pest^CB v^Paste pH Static ABA
C-[illegible]lys-: _____ Total containers! _____

Ofer Noes Sketch < **or** use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.:_____">v ^5 M -SL-c^i_____

<stalion number> - <media code> - Sequential sample number>

Date: __^Ut^loV____ Time: ____\-\ v_____Collectors: ____ >)•>•,_____

Descriptive Location of Station *(if **new**):*

N side of roaster area, about center. 10 ft downslope from graded soil in base of small gully. Uphill from grassed, graded land

Description of Media/Sample:

w ; - ' - • • : . ^ , ilt w/ angular schist 4 re L 8 cm. Minor root material. 10YR 4/4.

Depth: ^ 0 - 6 ^ Collection Method:_____Hand --->-_____

Filtered Sample: Vo or *0.45* ***urn*** *fiber* Discrete or Composite?

Field Duplicate: N• or *Yes* Duplicate No. and Time: _____

Photo Frame* s) & Camera: _____2 photos_____

GPS Coordinates | :br new **discrete** sample sabon or multiple composite substations):

Latitude: __2^ . ___N **Longitude**_____E Elev: "•': *i* • o ft

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____°osat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals . Dissolved TAL Metals Anions TSS TDS Total CN
TotaTAcidity t o t a l Alkalinity VOC SVOC PestPCB Paste pH Static ABA
Other analyses:_____V_____" TotaTcontainers: _____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.:_____• T V - S S W L , - QQ|_____

<station number> - <media code> - <sequemial sample number>

Date: __j tJ - >___ Time: [j -- Collectors: j r * H l ^_____

Descriptive Location of Station *(if **new**):*

S4*&v*^> wu-vM f*«w>. o* • {twj >••• • -• tU -v.<oH–

(assumption). Near center of original foundation

fV- « ,;•••.. 1 ,

Description of Media/Sample:

i fe,; - lose-V* . -

6-10 10 R 4/8 orange-red silt or clayey silt

i o - a - 6/6 - micaceous silt w/ pieces of charcoal

Depth: 0 . - Collection Method: - . j

Filtered Sample: No • 0^5 *um* *filter* Discrete or Composite?

Field Duplicate: No or *Ya* Duplicate No. and Time:_____

Photo Frameisi & **Camera:** - •••-.

GPS Coordinates (for new **cfecrae sample** station or multiple composite substations):

Latitude: 2'4-867 N Longkude: 400723 E Elev: HV Mt-tw

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____% sat ORP_____m V

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals __ Anions TDS Total CN
ToSlAciojfy" Total Alkalinity VOC (SVOC Pest PC B~ Paste pH Static ABA
Other analyses:_____j^_____Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: '->¥-& * -wiA - co |

<station number> - <media code> - <sequenlial sample number>

Date: -< Iv&joT Time: 1U -Ss Collectors: fw\sivx / M , . • •

Descriptive Location of Station *(if new):*

M*^ JU***f , JJ*yL ©(- '• ••' ^' , J^-H^WN E of Wtto m>*^L

Description of Media/Sample:

Slag pile ~30ft high consisting of broken walls of pots - most ~6-8inches on a side. Weathered to yellowish brown exterior. Interior is metallic grey/dk. black (N3-N2), w/ occasional green copper salts & brassy sulfides (chalcopyrite). Dense, some fragments are peaky vesicular

Depth: ~. Collection Method: ; -•--• -*:—»•>• •"-^ ^>o.^

Filtered Sample: .Vo or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *So* or *Yes* Duplicate No. and Time:

Photo Frames) & **Camera:** 2 photos of sample, 1 of location

GPS Coordinates for ne» **decree sample** station or multiple composite substations):

Latitude: ?'ii--': - N **Latitude:** ^ -. E Elev: *fy&AJL* -»

Field Parameters:

pH SpC uS Temp C

DO mg/L DO **%sat** ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
TotaTAcldity^ Total Alkalinity VOC SVOC Pe>tPCB ^PastepH Static ABA
Other analyses: Tc"-f M.<~-4.-. Total containers: *2.±,j>\ocM*

Other Notes/Sketch (or use back of sheet):

Both aliquots for SVL

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: PL S->*c - w * -o<-n

<stalion number> - <media code> - <sequential sample number>

Date: 7/16/07 Time: \'[-HS Collectors: YD-**>•>. x

Descripthe Location of Station *(if new):*

Slag Dump 200 m N of former smelter, 60m E of road

Description of Media/Sample:

Slag dump - Fine mat'. consisting of med to coarse sand w/ slag fragments

1° 1'^cV^, \o* (R 3/2 - H/i.

Depth: _°-lt.^ Collection Method: V** •' - 1. ••

Filtered Sample: *No* or *0.45 um filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: l^'HT. N Longitude: ^g j j c E Elev: ^ A i ^

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

TattljAL Metals Dissolved TAL Metals^_Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC *tSVOC*) Pest/PCB Paste pH Static ABA"
C'-;-.-..•-;•?: Total containers:

Other NotesSketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: ~; \ •- - Si - *cc* i

<sraiion number> - <media code> - <seqneniial sample number>

Date: 7/19/07 Time: 5?v; Collectors: fA<u tin

Descriptive Location of Station *(if **new**):*

South of ridge w/ Engine Shaft, about 100m E of shaft and about 40 ft below lower bench V....A.

Description of Media/Sample:

Piles of crushed matl, downslope of waste rock dumps. Pile held up by wood pilings. Matrix support - 10YR 4/6 silty micaceous matl, surface lag of qtz; metamorphic rock to a 3in max - all is stained yellow. Barren, no veg.

Depth: "• \> -•• Collection Method: I V w l '• k

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *i^LCti** N Longitude: i c o i f'l E Elev: *jVj-v M* - \,

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Bab NTU

Laboratory Analyses (circle as appropriate):

TottlTAL Metals Dissolved TAL Metals Anions TSS TDS_ Total CN
Total Acidity Total Alkalinity VOC SVOC,. Pest/PC B . Paste pH Static ABA
Other analyses: Total containers?" ~~~Z~

Oiber Notes,Sketch i or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: n 1 L\ ^r-\

< station number> - <media code> - <sequential sample number>

Date: 7/19/07 Time: S nc Collectors: .• \< .-w^

Descriptive Location of Station *iif* ***new):***

South of Engine shed - downslope from lower bench road. About 40 ft below **la**** bench road

Description of **Media Saapie:**

Matrix supported waste rock w/ minor sulfide - rich chunks w/ white salts. 2.5YR 4/6, red clayey silt matrix. Most rocks are schists ± qtz, ore chunks are < 2% up to 8cm. Most rock < 6 in. Minor staurolite present. Barren, no veg.

Depth: _- • '. **Collecrioa** Method: :-^•<-</• ••^..^-y>r-

Filtered Sample: A <- *5 **am*** ***fiber*** Discrete or Composite?

Field Duplicate: 'o r *Yes* **Dapacate** No. and Time: _____

Photo Frame(s) & Camera: 2 photos + 1 of ore

GPS Coordinates (for new **chscnae sample sawn or** multiple composite substations):

Latitude: _ 111(3$ N **Longitude:** E Elev: \"fr ."[ftV,

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____**••sat** ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

fTotal TAL Metals Dissolved TAL Metals __ .Anions TSS TDS _ Total CN
Total Acidity Total Alkalinity VOC 3 VOC Pest PCB Paste pH Static ABA
Other analyses:_____Total containers:_____^_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: _____

<station number> - <media code> - <sequential sample number>

Date: _____ Time: _____ Collectors: _____

De>cripri*e Location of Station *(if new):*

Description of Media/Sample:

Depth: _____ Collection Method: _____

Filtered Sample: TVo or *0.45 urn filter* Discrete or Composite?

Field Duplicate/ *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: _____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: _____ N Longitude: _____ E Elev: _____

Field Parameters:

pH _____ SpC _____ uS Temp _____ C

DO _____ mg/L DO _____ %sat ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: _____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: Oil bWSi-PQi_O

<station number> - <media code> - <sequenlial sample mimber>

Date: ^MlrA- Time: 1 ^ Collectors: '\Q,,\K^

Descriptive Location of Station *(if new):*

Field dupe of OKS13-SL-001, 12 inches away

Description of Media/Sample:

Similar to OKS13-SL-001 except it lacks the layer of 2.5Y6/8 sand. Only the 10YR4/6 silt is present

Depth: 0-12in Collection .Method: Hand auger

Filtered Sample: .\o or *0.45ton filler* Discrete or Composite?

Field Duplicate: '• xfia Duplicate No. and Time: C^SlVy. -ec <?• *\ o*S

Photo Frame<si & Camera:

GPS Coordinates I for new discree sample station or multiple composite substations):

Latitude: N Lonsitude: E Elev: ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals? Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC PestPCB ^astepH Static ABA
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: -i y . e i ' V ' ^ i - oe \

<station number> - <media code> - <sequential sample number>

Date: \ \v\ jo I Time: y\ • 15 Collectors: ^ - ^ w

Descriptive Location of Station *(if **new**):*

Dump on N side of Engine shaft; W of shaft, top of berm about 15 ft downslope

Description of Media/Sample:

Matrix supported, 10YR 4/6 silty matl. Micaceous w/qtz, no sulfides. Rock

+° SiV\. j w . . * ot -•*--" • > ore & qtz metam. (yellow-stained). Ba lv-1 \ , u v o •—f 3

Depth: C - \L • •. Collection Method: Hand auger.

Filtered Sample: .Yo **or** *0.45* ***mm fiber*** Discrete or Composite?

Field Duplicate: Y oc *Yea* Duplicate No. and Time: _____

Photo Frame(s) & Camera: - C •• ^

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: l ^ k i <-7 N Longitude: ^ <*»**> E Elev: ' -- ~- -^ *ft*^

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____% sat ORP_____m V

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN

Yotal Acidity Total Alkalinity VOC SVOC/ Pest/PCB', .^Paste pH StaticABA^

Other analyses:_____Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: o'-""j|-^ ^ Q \

<*station number*> - <*media code*> - <*sequential sample number*>

Date: "i \ •* - j Time: e'\ SS Collectors: ^ u U w

Descriptive Location of Station *(if new):*

W of Engine shed., V.\O/A «4ac>m vi-'.[1]. U- V-v\"->ci

Description of Media Sample:

108 t/4. looks like crushed, sorted mat'l | matrix supported, sandy silt w/ clasts of v. oxidized, fg-med mat'l w/ white secondary salts. Max. size is 2 in.

Depth: 0-6in Collection Method:

Filtered Sample: .\V> or *045* ***wn*** ***fiber*** Discrete or Composite?

Field Duplicate: *No* or *Tea* Duplicate No. **and** Tune:

Photo Frame(s) & Camera: ~2 photos location + sample

GPS Coordinates (for new discrete sample stabon or multiple composite substations):

Latitude: Z^L4TT- N Longitude: -•-..-? E Elev: ^l'3.>ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TOS. Tota^CN
Total Acidity Total Alkalinity VOC ^SVOC Pest/PCE^ <£astepH Static ABA
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: QIC. S SO-VJAt—QO\

<station number> - <media code> - <sequenlial sample number>

Date: ^ \^ \ oty **Time:** \V-l< **Collectors:** ^Mxk

Descriptive **Location of Station** ***(if*** *new):*

NW of Shaft 2-S in woods, 20 m from shaft

Description of Media/Sample:

Small pile of waste rock; 1/2 of forest duff & some veg growing on it. Matrix support, blocks of angular schist to 10in, only a few Fe stained. Matrix is micaceous silty sand, 7.5YR 4/6

Depth: o-|X»i\ **Collection Method:** vV-W auger

Filtered Sample: *No* or *0.45 urn filter* **Discrete>»r** Composite?

Field Duplicate: /M> or Fes **Duplicate No. and Time:** _____

Photo Frame(s) & Camera: i. vsWj- c ;

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: _____N Longitude:_____E Elev: _____ft

NO GPS – dense tree cover. See W^tvo •f C<-*- W*-

Field Parameters:

PH._____ SpC _____ uS Temp _____ C

DO_____ mg/L DO_____ %sat ORP _____ mV

Turb _____ NTU

Laboratory **Analyses** (circle as appropriate):

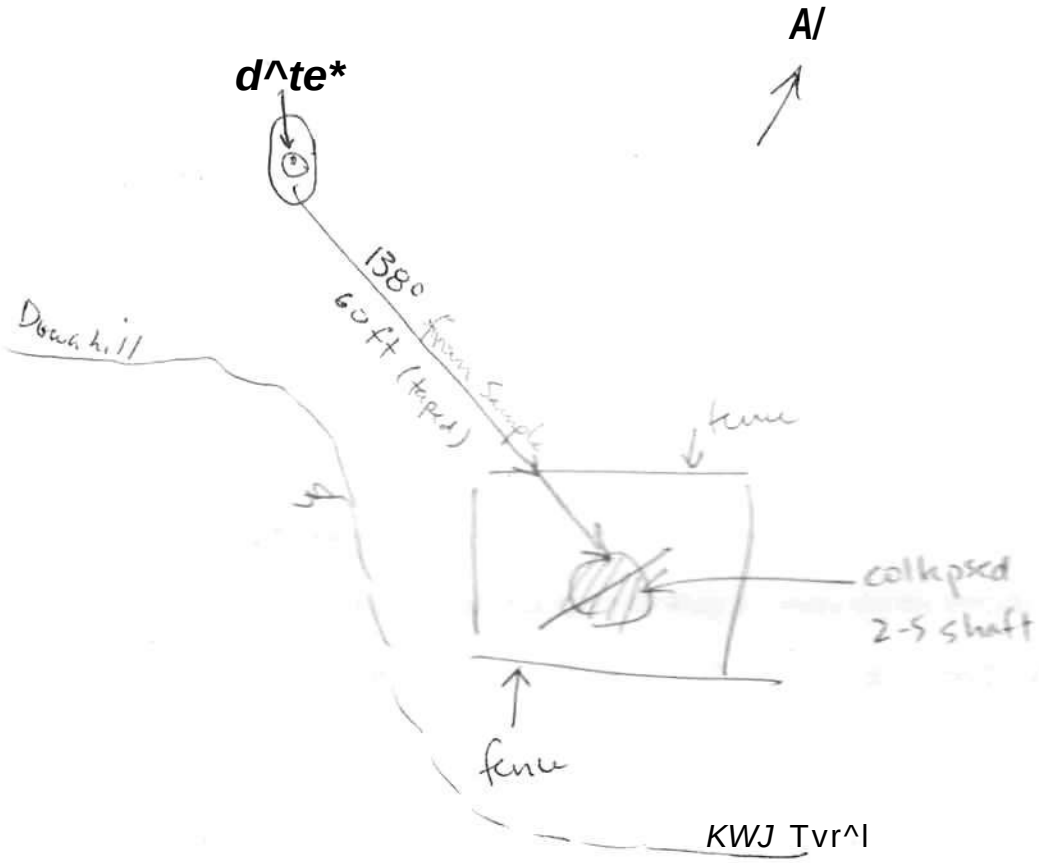
Po

Total TAL Metals Dissolved TAL Metals^^hions TSS TDS, Total CN

Total Acidity Total Alkalinity VOC /S^jc) Pest/B® (Paste pH Static ABA

Other analyses: ^—p-^ Total containers: 2^

Other NotesSketch (or use back of sheet):


d^te*
Al
1380 from Sample
60ft (taped)
Down hill
fence
collapsed
2-5 shaft
fence

KWJ Tvr^l

Ore Knob Mine

Ore Knob, North Carolina

Field Sample Data Sheets

Soil & Mine Waste - Tailings Impoundment & 19th Century Mine Area

Book 5

Black & Veatch
1120 Sanctuary Parkway, Suite 200
Alpharetta, GA 30004

Project 048700.08.81

ORE KNOB MINE. NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.:_____ >- -,- - • - - <•• j _____

<staoon mtmber> *- <media code> - <sequential sample number>*

Date: 7/19/07 Time: vl H^ Collectors: M * v t ^

Descripti\e Location of Station *(if new):*

Along strike of shafts, SW of former 2-S shaft. Bearing shot w/ brunton compass

Description of Media/Sample:

Wooded area w/ large rhododendrons; 15ft from ATV trail on N-facing slope. Lots of root mat'l and organic detritus. 10YR4/4; ~~silty~~ sandy silt w/ organic detritus.

Depth: 0--G'n Collection Method: ngg^j <....y.

Filtered Sample: *No* or *0.45 urn filter* ^Discrete or Composite?

Field Duplicate: *[No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera:_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude:_____N Longitude:_____E Elev:_____ft

No GPS — heavy forest cover

See back

Field Parameters:

pH_____SpC._____ uS Temp _____ C

DO_____mg/L DO _____ %sat ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC PestPCB Paste pH Static ABA
Other analyses: _____ Total containers: _____

Other Notes/Sketch (or use back of sheet):

N
shaft
2-5
ATV Trail
170ft (tapped)
N64E
possible
collapsed shaft
OKS01
uphill
downhill

ORE KNOB MINE. NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: _____ **-' iSSl -wA -o₀v** _____

<HJtkm raanber> - <media code> - <sequential sample number>

Date: _^ 1/9/97 - - **Time:** \^\ vo **Collectors:** KW+t^

Descripti\e Location of Station ***(if*** *new):*

Waste rock dump - mound of mat'l ~18ft high in area d *&M - has a deer-stand lean-to on top.

Description of Media/Sample:

Matrix-supported 10YR 4/6 silty fine sand w/pyrite (~<1%) + mica & qtz

Schist & qtz chunks to 6 in (yellow stained) and mine rock (ore) - rusty brown to

W e t »/ ^ ^ , ^ 10·vTH OK.^^'A py-U ^ o W s - l ^ **<rv f w l w U W ^

Depth: _ **0 -12 , ^** **Collection Method:** jAtwA. d«-^*v/

Filtered Sample: *No or 0.45 umfilter* **(^Discret^ or Composite?**

Field Duplicate: *Nopr Yes* **Duplicate No. and Time:**_____

Photo Frame(s) & Camera:_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: _ *lM&\1* N Longitude: _ SfrooaSH E Elev: *^Zk.**tiffing***

Field Parameters:

pH_____SpC_____uS Temp_____ C

DO_____mg/L DO_____% sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals; Dissolved TAL Metals Anions TSS TDS——TetaTGM^^^
Total Acidity ""Total Alkalinity VOC '^SVOC~ Pest'PCB^'f^PastepH Static ABA)
Other analyses:_____TotaTcontainers: _____

Other Notes/Sketch (or use back of sheet I:

Seep 1 - pool of water at ~~base of small hill~~ edge of tree line yellow orange substrate w/green

^\^vv^bv>fcX.^ — \pv^V 1^48*11^. 4fID&Ct<£ , C1U.&~\

S<*(>V-- ^ » < cot- V(- ^p,-_S. ^> xj fUow -trrt^g, Fv w/ ^_«^ Jiy^ (.-£ ^ L<; - s^p

has white AlOH below w/algae - some CuCO3 on LS & CuSO4 on algae

LS along ditch ~25 yds down 296911 N, 400837 E, 920.2 m

ORE KNOB MINE. NC ~ .ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK : \g\ -SL-cc|

*<**satkm** mimber> - onedia code> - <sequential sample number>*

Date: 1/19/12 Time: n • ^V> Collectors: rAnvW

Descripthe Location of Station *(if new):*

In the general area of the adits marked on the map

Description of Media/Sample:

10YR 6/4 micaceous silt w/ organic detritus: roots

Depth: o- \±,^ Collection Method: \-VwxA cw*...,

Filtered Sample: *No* or *0.45 um filter* Discrete or Composite?

Field Duplicate: *tNo* o) *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: 1 pUo^s - \^(<.h^ < s^w-oi^

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: m (/ U c N Longitude: 14-00 yi \ E Elev: <i23-c ft

Field Parameters:

pH_____ SpC_____ uS Temp_____ C

DO_____ mg/L DO_____ %sat ORP_____ mV

Turb_____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metahy Dissolved TAL Metals __Anions TSS TDS Total CN
*ToQTAcidhy^"1 otal Alkalinity VOC (SVof) PestPCB Paste pH Static ABA
Other analyses: _____ Total containers: _____

Other Notes/Sketch | or use back of sheet):

Seep #3 - No GPS - due W of OKSIG ~ 100ft. Pops out of hill side ~
Green filamentous algae w/ minor iron

ORE KNOB MINE, NC - .ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: C^1 i ->u-io*

<station(immber> - <media code> - <sequential sample number>

7/19/07

Date: ^^B5e Time: \-g:\o Collectors: IWvVm

Descripthe Location of Station *(if new):*

Deep, narrow E-trending gully ~80 ft N of ALD creek

Descripboo of Media/Sample:

Micaceous silty soil - 10YR 6/4 to 7/1 w/ sparse fragments of schist & abundant root mat'l

one piece of black, sooty mat'l - chalcocite or slag??

Depth: 0-ll>U Collection Method: V^NA*~y<v

Filtered Sample: *No ox 0.45 urn filter* Discrete or Composite?

Field Duplicate: *mow Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: ~2- A-'^.

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 2.M 6&1 N Longitude: H-oo^o^ £ Elev: ^1) .e#' L^

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat OR? mV

Turb NTU

Laboratory Analyses (circle as appropriate):

^TotalTALMejals- DissolvedTALMetals^ Anions TSS TDS Total CN

Total Acidity Total Alkalinity VOC SVOC" PestPCB Paste pH Static ABA

Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE. NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: >-'.>- SI-Q^-I

<szjnon mimber> - <media code> - <sequential sample number>

Date: 7/9/c"- Time: \(o • 3o Collectors: Mfrv"K>\

Descripti\e Location of Station *(if new):*

In very steep gully below slag pile – Gully is E-trending, slag on N+S sides (big « pw ccs <>(- ^cl- <,w^}

Description of R ledia/Sample:

10YR 5/4, miraceous fine sand w/ minor rock material

Depth: o- Itn-N Collection Method: •-"- -

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *(No* on *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: <;,ow.^U, cv–[1]-^

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: aflT-o*^ N Longitude: M-oc^l^ E Elev: ^*hL-^jtf*^ S*~-fU j*.** *of*- Wti~ [a](~ 6-PS lo<**^

Field Parameters:

pH_____ SpC_____ uS Temp_____ C

DO_____ mg/L DO_____ %sat ORP_____ mV

Turb_____ NTU

Laboratory Analyses (circle as appropriate):

.Total TAL Metalip Dissolved TAL Metals Anions TSS TDS Total CN
T^taTAaojty" Total Alkalinity VOC *SVOC* Pest/PCB Paste pH Static ABA
Other ar alyses: _____ Total containers: o*—

Other NotesSketch i or use back of sheet):

ORE KNOB MINE. NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: i2K - S>> - SL-QQ\ ^

<station numb:r> - <medici code> - <sequential .sample number>

Date: 7/19/07 Time: \W-Vc Collectors: NWV-C

Descriptive Location of Station *(if new):*

Field dupe of soil

Description of Media/Sample:

Similar to previous

Depth: o~\^ — Collection Method: -W- d an •¥

Filtered Sample: *No* or *0.45 um filter* (Discrete or Composite?

Field Duplicate: ~~No~~ c(*Yes)* Duplicate No. and Time: C*-Sfr-su-oo\ @ H»-3o

Photo Frame(s) & Camera: K^£

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: Z^lo^l N Longitude: ^oo^qto E Elev: *qiz.^.jf^*

Field Parameters:

pH _____ SpC _____ uS Temp _____ C

DO _____ mg/L DO _____ %sat ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

rfotal TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN

TotaTScidiry" Total Alkalinity VOC rSVOC PestPCB Paste pH Static ABA

Other analyses: ^ — ' Total containers: _____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE. NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK-1 <,- Si-001

<station**tmanber**> - <*media code*> - <*sequential sample number*>

Date: 1-P. Time: ll-ic Collectors: \kc-.v\ l'v\

Descripme Location of Station *(if new):*

In ditch drain ~j \>JCSV fftw\ C,Ov-"\M e>\J*. rA ir©A.V**v (Xv*K. l/©oV •>

like ditch has UKfi.^ Utw«.d -p k. <4-u*^\- ^<-X" , i^iK'i vvc^ tooV ^M_ *-

natural water ^"^~|» ^"^ *' P*-^^ "tWor f^ivctw wo— follies.

Description of Media/Sample:

7.5YR 4/6 0-6in = very micaceous fine to med. sand

6-12in = micaceous, clayey silt

Depth: ° -^'^ Collection Method: VWv-^A Cl-^V-'

Filtered Sample: Wo or *0.45 urn filler* ^Discrete or Composite?

Field Duplicate: *No\r Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: <* ^w-.-Ws

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: _Lfit_6^5__N Longitude: M-oQ^ot E Elev: ^i-Q J^-^

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laborator>' Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN

Total Acidity Total Alkalinity VOC (^VOC PestPCB Paste pH Static ABA

Other analyses: Total containers:

Other Notes/Sketch | or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: O < 5oO-S*--Qol

<station number> - <media code> - <sequemial sample number>

Date: - :"i Time: \~) . it Collectors: NW41^

Descriptive Location of Station *(if new):*

W of waste area, south of Christmas tree field, in mature oak trees

Description of Media/Sample:

loy 2 "S/^ } \ K ^ fv—t S«*~^ V IV- -*»/ a - VT>C4 W W J K J

Depth: O-vl ^ Collection Method: W - - d auger

Filtered Sample: *No or 0.45 urn filter* Discrete «r Composite?

Field Duplicate/ *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: "X pkojoS

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: *WitMY* N Longitude: ^o^oi- E Elev: * -- -* ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

t^tal TAL Mejals Dissolved TAL Metals Anions TSS TDS Total CN
TotalTu-idity Total Alkalinity VOC *(SV&Z* PestPCB Paste pH Static ABA
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: c\^ ScL- 5t--<=<^

<station mtmber> - <media code> - <sequenrial sample number>

Date: 7/19/0- **Time:** \fe.io **Collectors:** M<wl^

Descriptive Location of Station ***(if*** *new):*

NE of Engine shaft to 4-N shaft an approximate trend of shafts (I'm guessing) See Map on back.

Description of Media/Sample:

10YR 5/4 silt w/ fragments of schist and qtzite to ~2 in

Depth: o-a-/» **Collection Method:** ^^

Filtered Sample: *No or 0.45 urn filter* **Discrete or Composite?**

Field Duplicate: *[No)or Yes* **Duplicate No. and** Time:

Photo Frame(s) & Camera: ~> ^kck-3

GPS Coordinates (for new discrete sample station or **multiple composite** substations):

Latitude: Z'UHsi **N** Longitude: ^ '-" E Elevj ~ j^wy

Field Parameters:

PH SpC **uS** Temp C

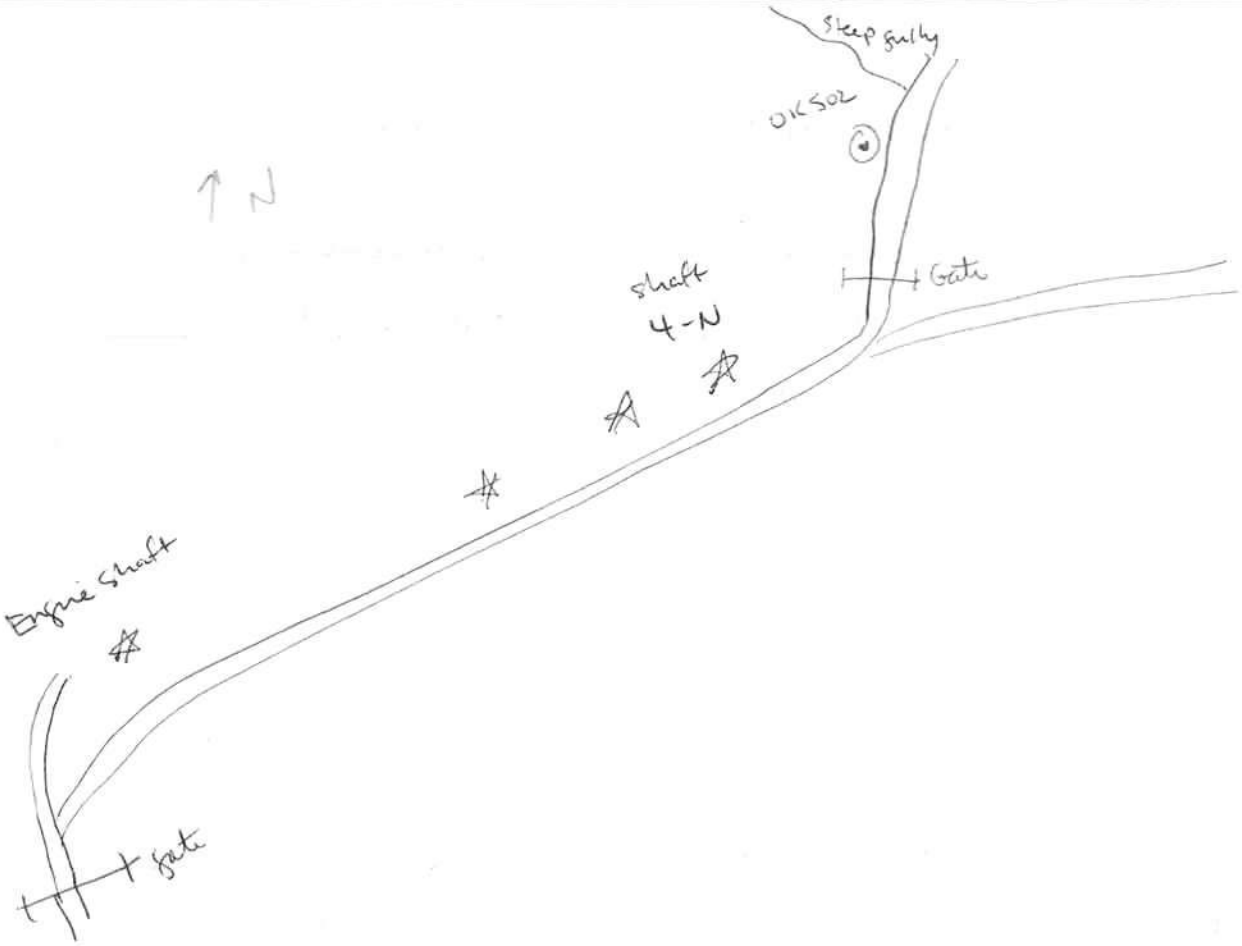
DO mg/L DO **%sai** ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

(Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC (^SVOC^ Pest PCB Paste pH Static ABA
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):


Steep gully
OKSOL
↑ N
shaft
4-N
Gate
Engine shaft
gate

Ore Knob Mine

Ore Knob, North Carolina

Field Sample Data Sheets

Soil & **Mine** Waste - Former Mill Area

Book 6

Black & Veatch
1120 Sanctuary Parkway, Suite 200
Alpharetta. GA 30004

Project 048700.08.81

Most notes by Ralph O. Howard, Jr.
Photos by R. Howard unless indicated.

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET . ' A ' 1 a

Sample ID No.: OK 411-SL-001

<station number> - <media code> - Sequential sample number>

Date: 7 7 2" 7 Time: 6 f 7 -> Collectors: &'r j J7 ^ M. B.

B«^I«tfonofSta«r«nrr«^;.^ ppi *f. 1$ ft. SU *£ M v ^ ' ^

(,- ' j . W «/*>*/ 5 £ £ g _ ^ ^ S>E Ccr^er erf-^U SMa^

£? * / 2 - foot Co^ tr^tc fO^Jl,

DescripwoofMedia^ample: / ^ fa ^J Q ^ ^ ^L frt+or

f^j TOCV- ~o*k, ^ e - ^ " W -*****,

Depth: 1 " - " Collection Method: hand auger

Filtered Sample: *Xo* or *0.45 am filter* Discrete or Composite?

Field Duplicate: *Ho* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: D\t V i e ^ — - lcC$_f$ ~W<&iAa Z>W*

GPS Coordinates (for new discrete sample station or mulbpk composite substations):

Latitude: 3b.5WfeU Longitude: ¥>i3 .'- " E Elev: fflf ft

36.399552

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

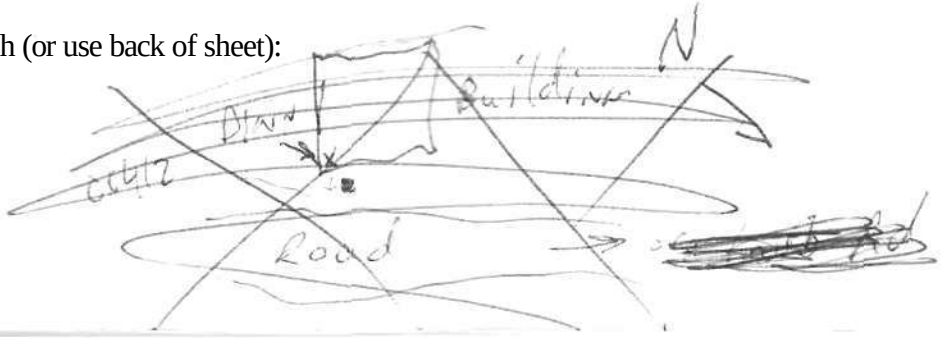
Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TALNlgjals Dissolved TAL MetaIs__Jmions TSS TDS Total CN
Total Acidity"" Total Alkalinity VOC (^SVOC P e s ^ K ^ Paste pH Static ABA
Other analyses:_____Total containers: _____

Other Notes/Sketch (or use back of sheet):

Photo



ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

,f\fc /.// ^ c L OC J

Sample ID No.: LJ/ 7 •' c °* "^ '

<station number> - <media code> - <sequential sample number>

7/ / 7 / f 7 /A- -> "- / /

Date: ' Time: – (C ' C S <'— Collectors: ^* (f f Y*'

Descriptive Location of Station (if new): ^ ('A" , n ^

Adjacent to Transformer Building drain outlet (see sketch)

Decripdoa of Media/Sample:

Light brown fine grained silty Sand

- grad -s A /vW - Fine grained sand

Depth: 0-6 inches Collection Method: Hand Auger CL ,

Fikcred Saaplt: *So or 0.45 urn filter* Discrete or Composite?

Fieid **Dapicaar:** Mb or Jfes Duplicate No. and Time: _____

PWt»Frame(I) f t Camera: 1 Z V , L £ i . ^ 3 - - -' ^. T / Z m / ^ o F

GPSCoordinates (for new discrete sample station or multiple composite substations): / 7 / ' transformer building.

Latitude: 36.399627 N Longitude: £ 1 J 1 ^ 4 E Elev: 5975" ft

36.

Field Parameters:

pH _____ SpC _____ uS Temp _____ C

DO _____ mg'L DO _____ %osat ORP _____ mV

Turb _____ NTU

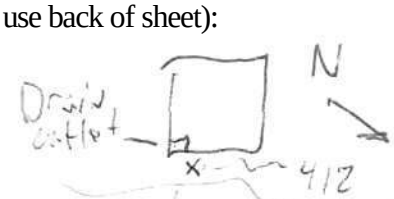
L ihui —H Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN

Total Acidity Total Alkalinity VOC (SVOC Pes1^C$ Paste pH Static ABA

O": -- -- -- -- _____ Total containers: _____

Other Notes Sketch (or use back of sheet):



fc/r/ -

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No, .% Hlif 51 001

<station number> - <media code> - <sequenlial sample number>

Date: 7-1 "* -C 7 Time: \\ ^0 Collectors: S. Martin, L. Corr, Mark ; Beasx, r>i \i I Ralph Howard

Descripti\e Location of Station *(ij new):*

rtecnpdonofMedi^raple:^^^^ / ^ ^ ^ „, ^ r ,nJ/

roots and rock.

Depth: 0 "(p " Collection Method: [-.-. ,. ^ -

Filtered Sample: *No or 0.45 umfilter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: 03. View facing SW of location of 401.

GPS Coordinates (for new discrete sample station or mukipie composite substations):

N W

Latitude: .^,_, 3 f U ^ J Longitude: ^1 • 3 5 5^ j E Elev: 3o3£ ft

.3°)3Z<\

Field Parameters:

pH SpC uS Temp C

DO mg/L DO °osat ORP mV

Tisb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN

Total Acidity Total Alkalinity *(^Op* (SVog) Pest/^CB) Paste pH Static ABA

Other analyses: Total containers:

Other NotesSketch (or use back of sheet):

* MS/MSD done here.

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *QK.^00 - ZsL—cX")i*

<station number> - <media code> - Sequential sample number>

Date: / - / 7 - ^ 0 0 ? Time: *I ZO^T* Collectors: L. Carr, S. Martin, M. Bean,

Descriptive Location of Station *(ifnew): l , C (l £ . „ fa* J - / ^ J *&Mo**d*

that goes to transformer building, west of (I think) ball mill foundation.

Description of Media/Sample: ^ v ^ j ^ * -dark /<c*^*\ ^ ,** 0/£ *C(^f^eY*

at bottom of hole.

Depth: (9"G" Collection Method: Hand Auger

Filtered Sample: *So* or *0.45 um filter* Discrete or Composite?

Field Duplicate: *So* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: *Cf\. \hti^* -- -^ JWffrJg,

GPS Coordinates I for new discrete sample station or **multiple** composite substations):

Latitude: - ''' : *P* Longitude: *Pj^rL* E Elev: *VtfO* ft

81.336317 W

Field Parameters:

pH_____ SpC_____ uS Temp _____ C

DO_____ mg/L DO_____ %sat ORP_____ mV

Turb_____ NTU

Laboratory Anahses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions^-^I^s TDS Total CN

Tool Aridity Total Alkalinity c £ 0 P <S50£^ (PestfPCB/ Paste pH Static ABA

Other analyses:_____ Total containers:_____

Other NotesSketch i or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 401 ~^U.'O0/

<station numher> - <media code> - Sequential sample number> C-3L/~/* /* 'i^'~(~'*l/^&f

Date: r " "7 C 7 Time: /Z 3 ^ Collectors: Martin, R. / ^trts^

Descripthe Location of Station (if new): ^ / /- -

- WOODC west of Road (Transformer Road)

west of SAWmill + south of SHAFT 4-S.

I:P k e ^ /Vjk/, ,'fe iey «*»/ rtc /*weW,A* evemt4,ufUI ,* */a>ds.

Description of Media/Sample: Media/Sample: > • i

Medium - Brown fine silty sand, minor roots + rock

Depth: J - (g Collection Method: • A /L d Auger

Filtered Sample: No or 0.45 urn filter Discrete or Composite:

Field Duplicate: No or Yes Duplicate No. and Tune:

Photo Frame(s) & Camera: 05, View of 402, facing North (mill area in bkgrd.)

GPS Coordinates (for new discrete sample station or mutapie composite substations):

Latitude:.7,..^5g?f; N Longitude:?,/, ^*f '1 K Elev: ffi'7 ft

Field Parameters:

pH SpC uS Temp C

DO mg/L IX) % sal ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL-Metals^) Dissolved TAL Metals Anions TSS TDS Total CN

Total Acidity Total Alkalinity ^VOTT) ^SVOp (psWCB^) Paste pH Static ABA

Other analyses: rolal containers:

Otiier Notes/Sketch (or use back of sheet):

- Rain began 1240-1245 cr so. loolc, lo*cl\j,

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 4l£. Z ^L-~ Of)I

<station number> - <media code> - <sequential sample number>

Date: 0: " /?//7 7 Time: / 0 ^^7 Collectors: Howard/Carr/Beaty/Martin

Descripti\e Location of Station *(if new):* , f .

Location is NW of coarse ore bin, under former conveyor system foundation. Bermed/walls around

*<l*r^CrfXO , Oltrs.*

Description o f Media/Sampie: ^ ^ £ ^ * * J ' £ j + j / ^ « 0 C Jft

Material is fine-gr. ore.

Depth: Collection Method:

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Tune:

Photo Frame(s) & Camera: i ;^; View facing coarse ore &-« \s/-? i (SE) loc. of 415.

GPS Coordinates (for new discrete sample station or mufcipk composite substations):

Latitude: ^ . y y f l O T N Longitude: &\A1<L. E Elev: 2.V52. ft

Field Parameters: •* fl/tff«7

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS (T j g C ^ D
Total Acidity Total Alkalinity VOC ^SVOTT\t ^Pest/PCB^ Paste pH Static ABA
Odier analyses: Total containers:

Other Note&Sketch tor use back of sheet):

1 - Probable ore fines and soil. Surface soil reddish and tan

2 - Rain stopped at about 1605.

3 - See reverse →

Photo 12. View northeastward of asphalt pile; solidified asphalt.

Note: During collection of sample 415, at approx. 1635, a dump truck ~~dropped~~ dumped a load of solidified asphalt piece* o^ fi^ property, ' o/jf^ &£ fl^ O^e dcg

U* ly J<?<*4 2£0 feel-,

OPS- ***31J100ZQ1 v-13%30*** **Lo (p)**

H W ' 213Z

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *Of\ *j Z^j 90001 I (kSipdil Q$ W < ^ W)*

<station number> - <media code> - <sequential sample number>

Date: ~- ~ ~ *Q7* Time: *Ify HO* Collectors: *Parr/Q^^Jll* Martin/Howard

Descripthe Location of Station *(ifnew): ff'_ thwtif <£• c(T^U ore £>M os/ifhik)ft£*
bermed/walled foundation of the conveyor system and its fo t-,1 - dation.

Description of Media/Sample: *g f ^ /L(Q<tfipJc-nd\ h J ^ A f So/^t*

*£<?-^l~ $) T-eJ Szd< *€** n preset, g'-fc of f^odj*
and leaves. Slight oily odor.

Depth: V ^ " f estimated Collection Method: ; - -

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?-^A^j '< *c< *?«•><$?,*

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: *OZ [}'p^ ^* .L "P. ~ J era ^, $l\°»** ""& o&*& ^ coarse bermed "trench"

GPS Coordinates (for new discrete sample station or mutapJe composite substations): > *r^ fl I '*
M e r -fDi»Jl<do;

Latitude: 3fc,/f?W N Longitude: 8/, 3: E Elev: ^3 f ft Sampled /* _^ 3M

Field Parameters: *hoffz)* At

pH_____ SpC_____ uS Temp_____ C *altt^A*
c3a^f>i^r'

DO_____ mg/L DO_____ °osat ORP_____ mV *(jrJji* A©f~

Turb_____ NTU *-F&tJ WQ,*
lo«tfan of

Laboratory Analyses (circle as appropriate): ' J- /" P zi--

^Total TAL-Mgiakr Dissolved TAL Metals Aniorjs——TSS TDS Total CN *(^TSZrdw*
Total Acidity Total Alkalinity VOC fjJVQC^) CEgsj/PCJi> Paste pH Static ABA instead
Other analyses:_____ Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *0}C* Hn *SLOP/*

<station number> - <media code> - <sequemial sample numbef>

Date: ?-(7-07 Time: /7^?5 CoUectors: *ftpy^/(fiff feedft^**

Descriptive Location of Station *(if new):*

building.

*Low-[\jI** d'~e*t*$q£, spaj pe*k*£ •£*& cof-^r****

Description of Media/Sample: *gra^f o j ^ fa U d ^ ƒ CC^^-Q^^ **~J,*

or^t;, kip -- fop M^ fr^y))^tf/ˢ?%

Depth: U—*b* Collection Method: ' °~^A .-- ->'-

Filtered Sample: *No* or 0.45 *um filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: *W 07. 1/ - ..'1/7. /„ &J- «P ?W ◁L*

GPS Coordinates (for new discrete sample station or mulapte composite substations): •———<j———"~v*

Latitude: *3h MOQVL* N Longitude: ^/, 5 5 ^ : J E Elev: ^?f0 ft

Field Parameters:

pH SpC uS Temp C

DO mg/L DO °osat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):
Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC /S^VOC^ Pest/PCj£> Paste pH Static ABA
Other analyses: Total containers:

Other NotesSketch (or use back of sheet):

^fkofv OS. PteJ b<rJb<dhydeffr<dcderzJ,y£c.(/r9

→ At mill warehouse foundation: → see reverse →

fUo 10. P|^-^f^r r^U^^f^'i^C.f

present). View facing east from about [illegible]

Photo 11. Close-up (4-Feet distant) of same. Gov't. ballpoint pen for scale (about 6" long).

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OX HP'S SL-001

<slation number> - <media code> - <sequenrial sample number>

Date: 07-1>, - 0 7 **Time:** mo **Collectors:** CfrTf/HoJ, Tin/Ben/Howard

Descriptive Location of Station (if new): Orange-brown clayey sond (very fine-grained), significant silt + clay (≈30% of each),

~'2l ¥"*'>"< ^- -^ ^,V* M „ .

Description ofMedia/Samglei: Station I^ 7*d, I^JIAJ Side crCifa<Uf, abut 6 ft. from trailer. Alongside a garden.

Depth, n=L" Collection Method: hand auger

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: (12) NW to SE, From 15 feet. (13) NW to SE, from 35 ^^ £rtfr M**ct

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 36,Sl%if N Longitude: Sl.ft5Z$l B Elev: ?% ^ ft

N IA/'

Field Parameters:

PH_____ SpC._____uS Temp_____C

LX)_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Cjotal TAL Metal?) Dissolved TAL Metals Anions TSS TDS CjTotal Ol

Total Acidity Total Alkalinity VOC (&VO£D) (Jest^CB) Paste pH Static ABA

Other analyses:_____Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: Q [C Hi 0 -S (- & C I

<station number> - <media code> - <sequential sample number>

Date: Ql'\% -Ol Time: 0 f / ? Collectors: (j^r/Nu^llfee^ flowd.

Descriptive Location of Station (if new): i (r~-
Alongside foundation pier, west ~~side~~ end of conveyor system.

Description of Media/Sample: ^ty-^. ^ ^^^J j j ^ <pf^V\m>MC<Jl} Creos"^fe
deeper
smell. Orange material is v fg to silt-sized + presumed to be fine ore.

Depth: JHLV /i Collection Method: Spoon

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera:

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ? 6 . * W / i N Longitude: ffMSft '- E Elev: ffiZfrft
N W

Field Parameters:

pH SpC uS Temp C

DO mg/L DO ° o sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

(Tpjan^\IJV1etals) Dissolved TAL Metals Anions TSS TDS (Total CN)
Total Acidity Total Alkalinity VOC (SVOCp (gt/PC|J> Paste pH Static ABA
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

→ 1 - see reverse. → Photo 14.

_L (fat ant shll sk~J."j)

Ah^r 3o &,f /vJ, iffi^ ^ U we o ^ 4
what appew to be asbestos-containing wall boards.

Lfr&eJ* ***•//faces,
PkoL N\ fe)*b' «*rt*>°*^s/sl*^"3 f &*> ^r i
pieces. View loo lc*3 B^r 20 -ft, Jc'skf.

on this

bi Y> • ~

jo IMOOow g/dv znz- ft

W g). 335563

(EPA)
Note Mark (Bean) has p,cLjr <z-Y/**-n&ncc M
asbestos mitigation work and recognizes
"fCiJ r»\cubUi»-l ^5 ACM.

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

San,ple ID No, f)K M)M SL QOI oJl CjOlD fOi^d

<station number> - <media code> - <sequential sample number>. • i flow.

Date: ' : -;;'7 Time: g g ? fl7£ Collectors: Carr/Martin/ /n M'l

Descripthe Location of Station *(if new)*: -TT5 A i r, ^ •Flo*** y,^lk

(0950) Off west 12 ft, where material has collapsed into sump. + been pushed

Corr^S d-P +TVX.L- !cr*J.-j hic.Ltj, v/St

(incl. bldg demolition debris)

Description of.Media/Sample: / V) / y ^ a) orange cl «ifs*j/s$t*tM' fri<A.J%6&,

(j^s'ilvtr'A- gray vfg silt, a j [c) ^ ^ S*dt-*th,

Moist.

Depth: _____ Collection Method :_hg*J_ auger

Filtered Sample: Afo or 0.45 *umfilter* Discrete or Composite?

Field Duplicate: Afo or Key Duplicate No. and Time:_____

Photo Frame(s) & Camera: \J5) Coli' • During ff. •-- ?& h M^, /Z A <^1 ance.

GPS Coordinates (for new discrete sample station or mukipJe composite substations): 16 17 -> see reverse

Latitude: 3 k , W ^ k N Longitude: 51.3355'/7 E Elev: j£/^Z_ft

Field Parameters:

PH._____ SpC_____ uS Temp_____ C

DO_____ mg/L DO_____ %sat ORP_____ mV

Turb_____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metahp Dissolved TAL Metals Anions _I§S TDS Q^otalCN^

'Total Acidity" Total Alkalinity <^OC) ^TVCX?" gsj/PCB) Paste pH Static ABA

Other analyses:_____ Total containers: _____

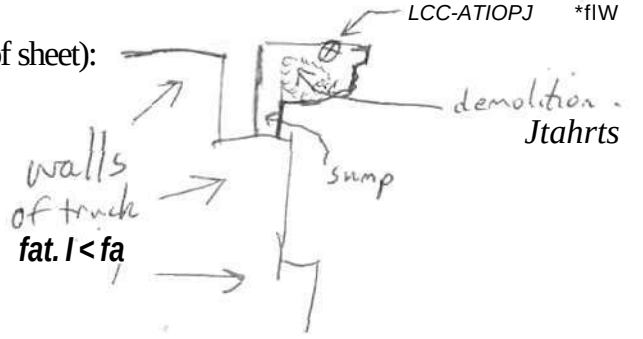
Other Notes/SketcH (or use back of sheet):

LCC-ATIOPJ *flW

demolition. Jtahrts

1 - *Ste i*.obi> ap*

reverse (PHOTO 18).



walls of truck

fat. I < fa

sump

Photo 16. View of location of 414, from 15ft. from

fsJor-fL (bcU-L^c S<--^JU\

Photo 17. View from 30 feet, from north facing south

(s«>*<- »J> cJD'MeJ • M<nt it*. iro-du fists-

obd '20-if or >» <n &*>•

?\Jh W<

Note 1.

L-

hshzn** \tfL$ro*Scl noted ker€~ cb^^m. ^p<ic along

utsr side o£ iriAJc--lffidt^i -fkcilti ^l>

Photo 18 – view ot pit W'v Jo^r 10-10 4^-r-

GPS'< (fi'le)

l^elfisn^^V

S/.33ff)

Og_____

N

36.400384

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 450 ~~[illegible]~~ WA 001

<stalion number> - <media code> - <sequential sample number>

Date: 7 -• ; - Z 1 Time: / \ ) (J Collectors: Carr/Martin/Bean/Howard

Descripme Location of Station *(if new): r -*

Under fine ore bins.

D^npbonofMedia^mple: ^ ^ - ' ^ *oC*$_t$, *S*J j* ^ ^ , ^ ^

unoxidized ore pieces (3/16" and smaller).

Depth: 0 - 1 Collection Method: HU *n* ^ *J* &*.&&

Filtered Sample: *No* or 0.45 *urn* *filter* Discrete or Composite?

Field Du;lic *iva* *So* or *Yes* Duplicate No. and Time: _____

Photo Frames) & Camera: ! £ l / / W r in hole right after " *CclkuVA. y \t<) -fzv*$_c$^ *v-M>f*

Foot distance.

GPS Coordinates t for new discrete sample station or multiple composite substations):

Latitude: ^-.-::.:: N Longitude: *?l.l?>5^:* E Elev: QiSOft

P1 20 21

TM^S

→ see

Field Parameters: *f^_^J^f%C* '_____^

pH_____SpC_____uS Temp_____C

DO_____mgl DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

(J\)taTTj\LjVletais^ Dissolved TAL Metals Anions TSS TDS Total CN

Total Acidity Total Alkalinity VOC SVOC Pest/PCB (gastepjfr S$_v$taticABX)

Other analyses:_____Total containers: _____

Other Notes/Sketch (or use back of sheet):

Photo 20. Loc. of 450, facing west, 7 Feet distant.

Photo 21. Loc. of 450, facing west, 30 Feet distant.

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 413 SL 001

<station number> - <media code> - Sequential sample number>

Date: 7-.• 3*7 Time: /) "35" Collectors: *C.tfC !%jfijfk^ {f*^J.*

Descriptive Location of Station *(if new,:* : f t ^ (^ J ^ ^ £ *^jfelag)*

Mill $\r*«.\»ft. (jtcrtsptsvls ' jo ~'flo$_i$ ^l\icL

is about 35 feet NW of this (413) location.

Description of Media/Sample: _ , , \ ± *M '*

?Oro^^-h^. cl~j/u ff- /wx^ iro.ce s«y&, mt*'11 *f^r*

*r*M-ccLre4 ,-.:.JlSt-& v<Z&L£s'^ sid^-^f h&"^.*

Spilled fine ore present here & all around.)

Depth: 0 - 4 U Collection Method: Hand auger

Filtered Sample: .Vo or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: W^j J *—QC , ""13, facing N from 10A (23) Facing N. from 35 feet.

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^SCCIOZ^N Longitude:?/, 335H / f E Elev:2?.?0 ft

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Tota1 TAL Metals^ Dissolved TAL Metals Anions___TSS TDS Qjotal CN

Total Acidity Total Alkalinity VOC (SVOC) <Pgst/PC§> Paste pH^~3tatic~ABA

Other analyses: _____ Total containers: _____

Other NotesSketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample»No, (Of ^\ °\ 6L0Q1

<slation number> - <media code> - Sequential sample number>

Date:_____Time: 1220 Collectors: Carr/Martin/Bean/Howard

Descripthe Location of Station (if new): -,-1/1 — ,6 r ' „ r- ./'/ L J

Middle, of the S side of the electric shop bldg. foundation; approx. 2 feet off concrete foundation.

Description itfMediaSampIe: , '// J /\Ju*£.nmS $fl*al

Orangish-tan silt, minor clay, (1/2-in) to large (3 in) rock. (?gravel?)

Depth: 0.5" Collection Method: Hand auger

Filtered Staple: So or 0.45 um filter Discrete or Composite?

Field Dwufc: f • . \o or }<?s Duplicate No. and Time: _____

Photo Fnwtti &. Camera: (24) View of loc. facing west, 12 feet. (25) Facing west, 35 feet distance.

GPS Cum HMMi < ST new discrete sample station or multiple composite substations):

Latitude: 36.4000 Sl-N Longitude: 81.5^117^ E Elev: ^T^foft

N W

Field Parameters:

pH_____SpC_____uS Temp _____ C

DO_____mgL DO_____%sat ORP_____mV

To*_____NTU

Lih« ttmi AmaRses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS <3fata7c]^

Total Acidity fatal Alkalinity CyTJO^-fSVOe^ (TTest/PCEQ Paste pH Static ABA

Other asah ees: _____ TotaTcontainers: _____

Other Notes Sketch | or use back of sheet):

(F•r*r\ 454)

1525 hrs.

Conducted exploratory boring in tailings area (N. end, Loc. of 454).

0-18" or frvypg. Tg kA^sr*&«*-

W'-^t &>U cL<^~- °J

f"? llsL <f**\ 4§ W-

χ\ £^nL£K c©U^ 0S~<«4] -CSt*j

@ 36 " -> t/-^v i*m

^Z'^-JlaL

HSH3 dk£ i>*~—Kj^-

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 416 SL 001

<station number> - <media code> - <sequential sample number> i j

Date: 7/13-07 Time: 1245 Collectors: Carr/Martin/Bean/Howard

Deseripthe Location of Station *(if new):* ^ '\ \\ ^ /« X„ J Jl /-L Out on middle of electric shop foundation

sUk, fi/>f>r>* . 30* fk l\Jf5 <£ \h *vJtste//i* edge; 2½ ft. NW of remaining iron rail.

rw • *; CM J- « i (IvM ,»«r-f erf/zVi*</&Ac.v.)

Description of Media/Sample: Medium-brown loam, substantial small/very fine roots, *Slf-l-'SiZ-eJ /^.AL/ puct* cl*y(M<cc -**^/, r«ry //J/- «*«/ *dry.*

Depth: 0-3" Collection Method: Hand auger

Filtered Sample: *No or 0.45 um filter* Discrete or Composite?

Field Duplicate: Ab or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: (26) Facing NW, 12 ft. distance. (27) Facing NW, 30 feet distance.

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 36.'3l?iy N Longitude: Si.*3315 °i* E *UQV.2~C\IC J* ft

Field Parameters: 36.399458 ← 36.399458 *

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

sTotal TAL Metals^ Dissolved TAL Metals Anions TSS TDS CJotaTcH^)
Total Acidity Total Alkalinity <CV0C/\> <5VOT) Pest/PCB Paste pH Static ABA
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 454 WA 001

<station number> - <media code> - < sequential sample number>

Date: 7-18-07 Time: \f) .1 L Collectors:

Descripti\e Location of Station (ifnew):J Vort\K tA jf ^ gs #&,,

Description of Media/Sample: ^ jJofe £ £jo», Sc*yU Cc A S < > £ / (jffU Vo/fin

2 IrJrt* *f **£ LiLeJ~.

C approx.

Depth: Collection Method: Hand auger

Filtered Sample: *No* or *0.45 um filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: 28 Exploratory boring, 454 loc. Facing East, 7 feet.

GPS Coordinates (for new discrete sample station or multiple composite substations): 2,1 View facing east. \0 * feet distance.

Latitude:30£iRi2_N Longitude: %l 33^2-7 E Elev: 2ci/Z- ft

(30) \heoj facing

Field Parameters:

pH SpC uS Temp C

DO mg/L DO %sat ORP mV

» essr. 3 C

Turb NTU

•kef AsW;

Laboraton Analyses (circle as appropriate):

Total TALMetafo Dissolved TAL Metals Anions TSS TDS Total CN

Total Acidity Total Alkalinity VOC SVOC Pest/PCB (^PasteprT; ^SticAB^\

Other analyses: Total containers:

Other Notes/Sketch | or use back of sheet): ^

I, Sit Z ns back, back of sheet for 4/9. Photo 28 ;;m-

bo n3'

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample I D No, t% ^7-3 S L £ C /

<stalion mimber> - <media code> - <sequeniial sample number>

Date: 7-18-07 Time: 11.75 (V <L^> Collectors:

Descriptive Location of Station *W*ew):ty^Q a j ^ { f%oi L o i . J j g ^*

along a surf water drainage pathway to the "fresh-

(Mtdju~ pond.' A ba -i (00 -fzcr t^sf- , i^h UJWZ/I , TVD/M the edge of pond.

Description of Media/Sample:——-^~Q±—— . i ,

Tan-orange Sand some clay; is tailings material.
Almost no rock, only at bottom where we hit native soil.
Native soil at 18-20"

0-12"

Depth: f)-l ~7 " Collection IVlethod: Hand auger

Filtered Sample: A'o or 0.45 *urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time:

Photo Frame(s) & Camerat *^//FIM/AA* £••-' -^ £ ^ T dukwr.Cj ^ 7 P^'-g *wrtA*, about 18 feet distance.

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 3 M P I W N Longitude: *%[,1ZSzZ3>* E Elev: 2 g l £ . f t

Field Parameters:

PH SpC uS Temp C

DO mg/L DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total fAL Metal^? Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC (SVCXp CPest/PCBT} (gastepH)C^gtatic ABA)
Other analyse -: Total containers:

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.:__ <x to /A/A ooi

<station number> - <media code> - <sequential sample number> i

Date: ^ ' 3 - 0 7 Time: _ Q j S Collectors: CoSfH^ f e w [1 ° ^

Descriptive Location of Station dfne$_W$): ^ , wi 30 ^ f l Q y g ^ / / . of K c U o J ^

tacility. As seen in photo, tailings have been exposed here

J_____/TAyTiAj^s: t_____-J-—T— c A, x '-ted

Description of Media/Sample: f o / o r 5 / w 7 * V, ^ e e fJ#k.f f ^ j j > ^ f ^ "***>

of bottom 2" approx. of each bucket.

Depth: 4-48" Collection Method: Hand auger-

Filtered Sample: So or 0.45 urn filter Discrete or Composite?

Field Duplicate: So or Yes Duplicate No. and Time: _____

Photo Frame(s) & Camera:_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 3 . '. ;5b'N Longitude: ?f. 35 - - 6 E Elev: Z^OH ft

Field Parameters:

pH_____SpC_____uS Temp_____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses (circle as appropriate):

Total TAL MetaTD Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB ^Jastejjg) (^taticABA^)
Other analyses: _____ Total containers: _____

Other Notes/Sketch (or use back of sheet);

\ <iee &-<*>**• ~^ (f ^ ^3)

Note 1.
Exploratory boring done, 1705 – 1715.

Odor: strongest when grayish-white tailings.

Consistency: Very.

0—6?' Yi l/o^isL-onzi^L tailings

6" Colo? c ^ ^ ' reJJoh o ^ w ^ f CN^y-5'ft, G-\~z.

Same at all depths.

t2-/_T Q (or joes L^cM- To y€//o^A/\rP^*ry^.

j ^ f W ^ ^ ydU&vk cd^;(flln^l'^

2 V 3 0" > ~ ^

3^~5^ Y_//ow .^, ;^_ / I«/ #^ g^r«_^ He3ZT

—;—r:—f_~ '—;—i -\0~C color

36-42 Yellowish but more gray

4 I ~ W Grm^ish^A^ T^tlAa. Feels si fry with some clay-size material.

48" and deeper: Brown color (medium-brown).

Consistent throughout all depths.

Photo 33.
Shows bucket cuttings from deepest (at left) to shallowest (at right). From 10 feet, facing south.

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK iA5l m 001

<stalion number> - <media code> - <sequential sample number>

Date: 7-18-1 1 Time: 1745 Collectors: Carr/Martin/Bean/Howard

Descripti\e Location of Station (if new): yJesfefLkJ{L\&xr~ CL^*- ^f tailings area.

t-

/? tL

DeoipdooafXfcdia^ample:/^/^ ^ ,*ver*),, &t al*ct *3S^},%L M^*

\P-tloM- ~~[illegible]~~ wet.

Depth: EX. 30" Collection Method: Hand auger.

Filtered Sample: No or 0.45 umfilter Discrete or Composite?

Field Dupiote: So or Yes Duplicate No. and Time: _____

Photo Frames i & Cameraf Jl) ?o*M I PC. IZ -tj. aukuyc£ -ftu '-><, Sc^ZK . (35) see below.

(36) \$<Mf/e foe facing South, from 30 feet away.

GPS Coordinates | for new discrete sample station or multiple composite substations):

Latitude: V.-. I ,- N Longitude: gI, 335"?^ & Elev: ^g^g ft

N 1/0

Field Parameters:

PH. _____ SpC _____ uS Temp _____ C

DO _____ mgL DO _____ %sat OPvP _____ mV

Turb _____ NTU

Laboratory Anahyses (circle as appropriate):

(Total TAL Metals> Dissolved TAL Metals Anions TSS TDS Total CN

Total Acidiry Total Alkalinity VOC SVOC Pest/PCB ^astepH Static ABA3

Other analyses: _____ Total containers: _____

Other Motes/sketch i or use back of sheet): ,' f\

Photo (35). Shows borehole cuttings tro(V\ deepest (left) to shall (J^JtJ m right).

Note 1. Borehole

' L^cc. c.- C<i->rLrm->

Note 1.

Log - buckets, hand auger.

0-6" Same yellow-orange tailings;

6-9 → Same

9-12" (lower ½ of bucket) goes to Black.

Black, entire bucket.

Same, no change.

" } Stays black to T.D. of 30 inches.

30"

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: _ OK 451 WA 001

<station number> - <media code> - <seqnential sample number>

Date: - ^ - ' 7 Time: | % Z - 5 " Collectors: C^r/H^hjBe^/n^^a.

Describe Location of Station (if new): p ^ n ^ J ^ ^ / / ^ ^) ^ S c C 6 C

Side Jfore. kit. Ore IIMJU l*yy ***•«

have visible pyrite

Decripboo of Media/Sample: -^ r l L l / £" /

Tan-orange tailings, very tg but chunks of rock

ti &'OAMOS^ eJU **Are** ££<L C\o-f 0-rt^oT $*.eos)t

Depth: 0-12" Collection Method: H^-"~ ^'

Filtered Mmpfc: So or ft4J *urn filter* Discrete or Composite?

Field Dupioic Mi or *Yes* Duplicate No. and Time: _____

Photo **Frame* s>&** Camera: (3 7 / l/ifcu; / - 45 X ltc.&uy, (\orJL IjJ^f w^fe^f. ^

—[({£) H5\ kcc-Sc^

GPS Coordinates far new discrete sample station or multiple composite substations):) K^_^r tacoma north

34.39981

Latitude: _^_____^_N Longitude: %\.3^^V] E Elev: _2ffiL_ft \ ^ r^

Field Parameters: \ Q i yfavj"",

pH_____SpC_____uS Temp_____C

DO_____mgL DO_____%sat ORP_____mV

Turb_____NTU

Laboratory Analyses i circle as appropriate):

^oHiTALMetaTr Dissolved TAL Metals Anions TSS TDS Total CN

^SaTA^Idity Total Alkalinity VOC SVOC Pest/PCB (Jaste^H SjaticABj

Other analyses:_____Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 425 SL 001

<station number> - <media code> - <sequential sample number>

Date: 7- f"Ql Time: ()% 3 5" Collectors: L^ y m^ (10^-^4

Descriptive Location of Station *(if new):* ^- i , I I I ,T\ P 4-

Freshwater pond, about 30 feet

e*sf of \rs ed^^uj "k^ y®

-pf . N£ o~f ^^mfiC^ locuio^'

Dry i yti— of Media/Sample: . j '[I (j

Orange, wet, some sand and silt-sized material (TAILINGS). One-half inch or less of standing water was on augered spot.

Depth: 0-6" Collection Method: Hfc^J. CUA^T .-r ? S&QQAs

Filtered S—pte: *So ox 0.45 umfilter* Discrete or Composite?

Field Diipfc JOT: Mb or *Yes* Duplicate No. and Time:

Photo Frame(s). A. Camera: A*?). Vi^1 ^- A c , 5. Pr_0// 16 h~<j~, \ ^ J fe <• ?AJ Sfo^

From 20 feet.

GPS Com *rim* ai 11 for new discrete sample station or multiple composite substations):

Latitude: 36. - ; 1 . : „ N Longitude: ?/, J 3 ^ V 7 B Elev: 2^ ft

00

VbMWmmwtmm

pH SpC uS Temp C

DO mgL DO %sat ORP mV

Turb NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS ^TotaTcFp[7]

Total Acidity Total Alkalinity (^ 0 ^ < § V O £ Pest/PCB Qgstefft STafic~A"B^

Odier analyses: Total containers:

Other NotesSketch lor use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 422 SL 001

<station number> - <media code> - <sequential sample number>

Date: 7-19-07 Time: O'j'L'o Collectors: fo^f/6^^jffW

Descriptive Location of Station (if new): r V/ f J 11 I r~ i \'

Northern area, on drainage path!

Description of Media/Sample: Tan-orange tailings; vfg, mostly clay- and silt-sized material.

Depth: j- 9-6" Collection Method: HflwJ

Filtered Sample: *No* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Framesst & Camera: (Hi J U<?^ ^ -\ & +T.-h-L^, b*Jj\. \\ Z) [J<e«J " R^^

GPS Coordinates far new discrete sample station or multiple composite substations): °^ 20 feet, f i S.

Latitude: i 401540 N Longitude: ft 1.33 frt 8 | Elev: 2^2 7 ft ^ ' ^)

N VAJ

Field Parameters:

pH_____ SpC_____ uS Temp _____ C

DO_____ mgL DO_____ %sat ORP_____ mV

Turb_____ NTU

Laboratory Anal\ses i circle as appropriate):

TotalTAL Metal*. Dissolved TAL Metals Anions TSS TDS (fTotal CN

Total Acidity Total Alkalinity VOC QVOCy (Pest/PCB) Paste pH Static ABA

Other analyses:_____ Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 424 SL 001

<station number> - <media code> - <sequential sample number>

Date: ~- - - ^ 7 Time: 1 0 I b Collectors: C-O^r £f ^ W H ° ^ t j)

Descriptive Location of Station *(if new):* -£ ^ s^f ^{-/*d S. o/^ &/Q &C

Freshwater pond.

Description of I ledia Sample: ^ / ^ ^ ^^ faff ^ • * ,) 0 7 ^ / > * ^ (*' ""J*.

about

below that is black organic-rich muddy sediment. Heavy in roots + leaves.

Depth: 0 - L - Collection Method: \j,o~d. t^-kP-r A ^ (jPct>s\

Filtered Sample: *So at 0.45umfilter* Discrete or Composite?

Field Duplicate: .\bor>'es Duplicate No. and Time: _____

Photo Frame*si «& Camera: (43). 424 loc. from 10 feet distance, facing SW. (44).

GPS Coordinates (for new discrete sample station or multiple composite substations): I POM. 30 f' r.f

Facing SW.

Latitude: 5fe*fe3S» jj) Longitude: Ql.li^fZ*? 9 Elev: 2* 3 7 _ ft "^

36.401042 W

Field Parameters:

pH_____SpC_____uS Temp _____C

DO_____mg/L DO_____%sat ORP_____mV

Turb_____MTU

Laboratory Anahses i circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN

Tool Aridity Total Alkalinity VOC ^VOC^ ^£est/PCB^J <PastepH_^Static *ABAy*

Other anahses: _____ Total containers: _____

Other Notes/Sketch | or use back of sheet):

Note: 2 photos taken of stream east of h. [illegible] map has

h;,TM WOL foe. f ^ T ^ p

L. Carr was photographer.

OK 406 5L ool

Time

1 -1^-^07 \n\lr s^tiu-^

Howard, Alison Graab
(Mark Beem was present)

Station: Residential backyard, ≈ 180? feet ↓ downhill

(\^es,t)o-C rh> bouse* 4l?<*j*Jc r^JUJ CcrcJ^_ (2 feet off).

Sample description: X-———-^"—~^{•XtAm^-lof*"^ (cPlW So*/, f< J*/AodSj \fcty r}

(silt+clay), some sand content. Good soil (top soil). Light, dry-

Depth: o-t il

Hand auger

Lat: 3(o.H0\znb

Long: <SL33H2_^i

Elev - 2889

fhh5

60. F=ic,4 - ^ / / * £ ^ £•***•

61. Facing NE, 30 feet distance.

Total Metals

SVOC Pest/PCB CN

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample I D No, Q | < H 07 Sb Si 00 /

<slation number>-*-<media code>^-<sequenlial sample number>

Date: 7-1 9 'C7 **Time:**)3Q 0 **Collectors;** H*\A}<^/&^yJe.n»ι-kr

Descriptive Location of Station (if new): n I I >—?-*——^ i ^ W £ _ Residential backyard, @ 75 ft. WSW of the N end of the trailer.

Descriptioa of Nledia Sample: Medium brown topsoil, organic-rich, roots etc. present. Very f.g., clay-silt rich, minor sand

Depth: 0-6" Collection Method: /fayvQ auger

Filtered Sample: *No* or *0.45 urnfitter* Discrete or Composite?

Field Duplicate: *No* or *Yes* Duplicate No. and Time: _____

Photo Frame*si & Camera: ('H^il \Jl2^ -for,.^ 5" frvf^ [t Q.(HfyV Ifi* -fac /\

GPS Coordinates i far new discrete sample station or multiple composite substations):

Latitude: 34.399913 N Longitude: ?/. 5.33093 W g Elev: Z-ff 0 ft

Field Parameters:

pH _____ SpC _____ uS Temp _____ C

DO _____ msL DO _____ %sat ORP _____ mV

Turb _____ NTU

Laboratory Analyses I circle as appropriate):

TotaJJALJvleuils^ Dissolved TAL Metals ^Anions TSS TDS CTojaLCN^
Total Acidity Total .Alkalinity VOC <SYOCp (Jest/PCB^ Paste pH Static ABA
Other analyses: _____ Total containers: _____

Other Notes/Sketch | or use back of sheet):

Sample Loc. in Right foreground.

NE, from

Sample loc. in Left foreground.

^— fAGE$ COMTMUE o/\ /^W s'fJts

0*

OK LjzLUr Q&

7-19-07 "Tune, 1445 cJk^_G^r/$et^iAh^d

Station

Along a wet4eti*tJ«^te (cr^O"^i ^ t / c ^ L

AWik Light-b/tit***- sand, wet, clay and silt present, minor roots and leaves. Lots of pebbles (<1 inch).

Depth

0-Q>u

Method

Hand auger

Lat 3fe.4gQg(5 N Lon ?d 3347_7^JL^ Elev. £1/7

Photos (58.) View of 421 location from 6 feet, facing west.

© \fclS J 42] k • -P^M a^ fit/; £ « *W

Jerry Pruit
336
482 2802

</ToE# ^ i T)

(CN)

/^V^j c^O?^>

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 420 SL 001 * Pages beyond here go BACKWARDS

<*§tqtion number*> - <*media code*> - <*sequential sample number*>

Date: (1330-1430) 19th **Time:** _____ Collectors: _____

Descriptive Location of Station *(if new):* Ti,l ^ H 4Z0.

Not taken. See Notes below

Descripooc of Media Sample: ~e 6 > ^ reverse. →

^ i - Next pages go backwards.

\i

Depth: _____ Collection Method: _____

Filtered Sample: *So* or *0.45 urn filter* Discrete or Composite?

Field Duplicate: *So* or *Yes* Duplicate No. and Time: _____

Photo Frameisi & Camera: _____

GPS Coordinates far new discrete sample station or multiple composite substations):

Latitude: _____N Longitude: _____E Elev: ___ft

Field Parameters:

PH._____ SpC_____ uS Temp _____ C

DO_____ rnaL DO _____ %sat ORP _____ **mV**

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: _____ "TotaKcontainers: _____

(PL>fas 47~-Sz^\^ (M>rr w^^AcJ^jg;

Other Notes/Sketch i or use back of sheet): r Ii ff J1 r /-? $£/£-*

* Note 1. Prior to collecting this, a 6-photo panorama shot was taken of the drainage (N. to S.) along the trailer homes along east side of mill site. Smoldering fire from stump burning observed just downhill of loc. where shots taken.

HokZ —y h-&- rtYUM-^s?

Photo 53 facing east.

Note 2.

Near the south end of this drainage, downhill of the former

(fcs*y e^ct- -GnvJbtii^! y^f observed /**• f*}*^ -CJteJ- Ji

Cove re J **/^UW. / ^ v ^ /O -/^ &gf Ckon2U*l(y)

/f skimp delays <W b>Pf0''' 13, wio fl.333lz.t-

GPS: W N

elev. 2920

* SAMPLE '420 NOT POSSIBLE.

Water upstream of here appears to be in pretty good shape.

Across the creek, L. Carr takes two photos of 4* Creek „oUW- *> U *"** T

54. Facing south. } Standing at same level (AS &~^L

55. f^-ci-^ eon V._\

Photo 56.

Facing SE, photo shows bulldozed surface of pushed hillside, with stumps + debris and topsoil. Facing south, can see opening where creek goes back uphill.

1- South facing
2- facing east

photo 57. Same, from 15 feet distant.

"fiftc B-tA^ <**J~]
photographer.

Ore Knob Mine

Ore Knob, North Carolina

Field Sample Data Sheets

Residential Soil & Wells

Book 8

Black & Veatch
1120 Sanctuary Parkway, Suite 200
Alpharetta, GA 30004

Project 048700.08.81

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK QOf'' 'Ddj-QOf

<station number> - <media code> - <sequential sample number>

Date: 7/8/07 Time: _____ Collectors: _____

Descriptive Location of Station *(if new):*

Roan Creek Church

Description of Media/Sample:

Drinking water

Depth: _____ Collection Method: _____

Filtered Sample: 2 *(Mg* or *0.45 urn filter* Discrete or Composite?

IO

Field Duplicate: (JVe[r]br *Yes* Duplicate No. and Time: _____

Photo Frame(s) & Camera: V'^S

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: ^,°^U ^7jN Longitude: 8/ °Ji/ [f]2<.UjE Elev: &'/ Jkrng

Field Parameters:

pH _____ SpC _____ uS Temp _____ C

DO _____ mg/L DO _____ % sat ORP _____ mV

Turb _____ NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: _____ Total containers: _____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: Q^OOl Dc<-> - OO /

<station number> - <media code> - <sequential sample number>

Date: l//S/(>7 Time: \ ? /<£ Collectors: j ,•- ^L^,,^C- P

Be -/^s& .,

Descriptive Location of Station (if new): fon&"ff£i£L_ S

Jimmy Tripp Well
137 Hunters Lane
Jefferson NC 28640

Gaabb

Description of Media/Sample:

Drinking water

Depth:_____ Collection Method: ?p.'t ^-

Filtered Sample: m^Ax 0.45 urn filter Discrete or Composite?

Field Duplicate: No or Yes Duplicate No. and Time:_____

Photo Frame(s) & Camera: '• -i '"

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: % W f c ' f f i Longitude: 9/ 7 7'<>'$'.? 7</E Elev: ?#?.6ft ^i

Field Parameters:

pH 5 , 3 <"" SpC f < / uS Temp / 3 , "3 C

DO_____mg/L DO_____% sat ORP_____mV

Turb Q./(? NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses:_____Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: V< Q0 5' pWOO /

<station number> - <media code> - <sequential sample numbef>

Date: ~//l^/^^? Time: / 6 . 3 6 Collectors: .lw et al

Descriptive Location of Station *(if new)*:

Ronnie Bare Spring
down hill to spring house

Description of Media/Sample:

Drinking water

Depth:_____ Collection Method: _____

Filtered Sample: /N^xx 0.45 *umfilter* Discrete or Composite?

Field Duplicate: *No or Yes* Duplicate No. and Time:_____

Photo Frame(s) & Camera:_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude:^ V ^ - ^ N ^ Longitude: W*/?'3&:2&E Elev: 1//M7j^^

Field Parameters:

pH %. LlCi SpC 7.S uS Temp /¥- jf" C

DO_____mg/L DO_____% sat ORP_____m V

Turb (e-%% NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN) uS f^J^J
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses:_____Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: /)£ 6 p / - J^UJ'6^/

<station number> - <media code> - <sequential sample number>

Date: V/8/-J7 Time: 13 ' 3Q Collectors: Jo<J < / £<^\

Descriptive Location of Station *(if new):*

Gene Lewis Well

I 3 CJ Ore ^;iob fa-rut @-t

shed in back - stand pipe

Description of Media/Sample:

Drinking wate

Depth:_____ Collection Method: _____

Filtered Sample: jtiojtt 0.45 urn filter Discrete or Composite?

Field Duplicate: No oxweg Duplicate No. and Time:_____

Photo Frame(s) & Camera:_____

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: K^l^'p/-^ Longitude: 7* h's* ^k Elev: rU$^/ji<r"

Field Parameters:

pH Jj, ; 3 -^ SpC 103 uS Temp / 5 - 5^ C

DO_____mg/L DO_____%sat ORP_____mV

Turb Qt (e (f NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses:_____ Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC - ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: *pt OCf- D uJ-QO/*

<station number> - <media code> - <sequenlial sample number>

Date: *7//&/£>7* Time: *I[1]/', /?* Collectors: *J(-^ •< A < _ ^*

Descriptive Location of Station *(if new):*

Kenneth Bore well
201 Ore Knob mine Rd

Description of Media/Sample:

Drinking watee

Depth:_____ Collection Method: _____

Filtered Sample: *{Jfo/bc 0.45 urn filter* Discrete or Composite?

Field Duplicate^A»«ri'e5 Duplicate No. and Time:_____

Photo Frame(s) & Camera: *^r'5*

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: J 6 ^ / W ^ Longitude: *%l°f1 's7 Wb* E Elev: J ^ O ^ f t ^ ?

Field Parameters:

pH 6 ' *ZJ£* SpC ^ C T [7] uS Temp */ 7^/* C

LX)_____mg/L DO_____% sat ORP_____mV

Turb *V- OO* NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses:_____ Total containers:_____

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC ~ ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: OK 007-DW-001

<slalion number> - <media code> - <sequenlial sample number>

Date: "?/^/cr7 Time: ~~14:15~~ 14:20 Collectors: JW

Descriptive Location of Station *(if new):*

~~James Drake well~~
~~801 Little Peak Ch Rd~~ Mark Mallette well
154 Golden Fox

Description of Media/Sample:

Drinking water

Depth: ~~Water~~ 300 'j&fff£ Collection Method: Ct.T~ CcMA A

Filtered Sample: (jw®£ *0.45urn filter* Discrete or Composite?

Field Duplicate: I^NpyT *Yes* Duplicate No. and Time:

Photo Frame(s) & Camera: '<*" 5

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: 2<£ <[1]/QX4/QI Longitude: %/- 2'*^/?JET Elev:^ fV/ ft
LO

Field Parameters:

pH Q. (3 SpC 37 9 uS Temp 3- $ f C

DO %'5'^ mg/L DO *&. 'fb %sat ORP A V mV

Turb 'b£j. O NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

ORE KNOB MINE, NC -- ANALYTICAL SAMPLE DATA SHEET

Sample ID No.: &t DOG - Q UJ ' Q° /

<slaiion number> - <media code> - <sequential sample number>

Date: 7//f Time: /? '" C/S Collectors: J> ^

Descriptive Location of Station (if new): *

James Drake Well

-J vol A./t£A**a' ^d

Description of Media/Sample:

Drink water

Depth: / f^ou Collection Method: as u J>-JLJ>~-

Filtered Sample: C&QAX 0.45 urn filter Discrete or Composite?

Field Duplicater/W^-or Yes Duplicate No. and Time:

Photo Frame(s) & Camera: <-//[,<,

GPS Coordinates (for new discrete sample station or multiple composite substations):

Latitude: fo.t/o/l^l N Longitude: £ V > ? ? 7 < T Z E Elev:<Wl ft

Field Parameters:

pH ,-f • 1° SpC ¥3*7 uS Temp /*>-.<*¥ C

DO 3' 70 mg/L DO ^ %sat ORP / ^ 7 mV

Turb ^ 5 NTU

Laboratory Analyses (circle as appropriate):

Total TAL Metals Dissolved TAL Metals Anions TSS TDS Total CN
Total Acidity Total Alkalinity VOC SVOC Pest/PCB Paste pH Static ABA
Other analyses: Total containers:

Other Notes/Sketch (or use back of sheet):

Lp.tfa'*^

1	Striggon	PAV 2
2	Matthews	
3	Bean /Fortson	
4	Jager	

5" M«phs*/5 Ptrt.wtlh

07-0507

Lssi, k>+p(^ [

7-17-07

①

v 07:30 @ site Set up command post @ <=irstW... frhVeifr;.,, -1..
Ore Mine Rd nr. 50's mine.

0 / * ^ Xtcrty ISSUES & . * > * r ^ , / ^ 4 ^ ^
including mines, low pH water, metals contamination
Present. B. Striggow Project Leader (field)
D. Jager SSD
S Matthews SESD
M Bean SESD
M .Crta*-^ . . . . . ^?$r,,
J. Acketown.. 55AJ
D. Fortson ESAT
T. M.Vr^ B&V
M. Johnson B&V
J Wendell (Superfund) Waste Division
L. Cv"c "
A Grabb intern Superfund division
S Martin Superfund div.
R. Howard "
T. Able water division

•^^H*/ :feam5: "Wart^-v^ /Moyer / Fortson - Tailings impoundment
Jager / Johnson Surface water / Sed
Striggow / Ackerman Flow / Surface water / Sed
Bean / Howard / Carr / Martin 50's Mmt-..

• ?.'0^ .>««s. d*/"e**e_ for ... Sctpij oling. Matthews

fee* r<*W3 ..^/ /•c^r/-..^ j, 5^tf./W 'ttcT&Xy/4i*&_
@ tailings impoundment: guns, axes, jugs of liquids, backpacks. Sherriff called + activities curtailed @ tailing impoundment. Othor AcTiV /.f i"c^ e&iHiiiuy

(4) 7/17/07

15:50 Collect OK205-SL-001 6. of confluence of
Jlz&t *tPcuir ..C^: Qt£" '\lcfS*t */ .h*hJ &ugcd
b £ §T"\4Bj4/J,'/\cfcCf#il*tK mcA.h* t^d grey loan
1-1} &S. mct«i} tlj.&Z $WC PCB
3t!#i. 5* 1 rt H . 91* 20' iz857 W

16:15 Collect OK204-SL-001 W of confluence of
New R. & Peak Ck 0-6" interval w/ hand auger
by Stragger Ackerman, like to mud brown loam
(1) 8oz metals (1) 8oz SVOC PCB
36°25'58.901" 81°20'49.136"

17:00 @ OK 018 - 36°25' 46.862"N 81°20'38.002"W
^V°T ... Glider 0fc$fC~5£>-Mt. *• v¥ ..4 •£» ^e^r loud
**/. SS ^ " ^ . £^ &rJu»i*:/...AdopfH>kvqjz •>efJUh&n^e6'ibrn
m?d.^&. A<r s ? * ^ y. Mf..i yvy chf <& suh&t*-
(1) 8oz metals (1) 8oz SVOC PCB
ll-J&. £ff)lc.ei.-Q-b QW.AQJ&2 *W. S T ^ W <:v/? r.:
in ~ 1½ ft water fm 2"-3" depth.. reddish brown sand
"(A>f,fc o/c/ o^»fc.. mfr^i^^_9 Skf-FMtf"*£T. appr. iron
..f?.fc.CJft.3't*?4> O&Jieetfiy
(..U.jf*£ m***k.O) &?&....$^$cfP(B..,. fy Stotyr /Ackerman
OllJ OlUtt &kM-$DM3, **J:.iJ^jr6«../J9kr h*k ,V
~\\..dcf& H-mieS.Jw &&-?.#/.$$£***..*? &a.fl*tf)Ackerman
e≤Am i$t) kte&zf 'Ane Seeds w/ mix,
(1) 8oz metals (1) 8oz SVOC/PCB

1' 15-00

7/18/07 Wind (5)

07:30 Meet @ command center Moyer crew to
19th Jj£jtfst*, mi£?;.. fUni%i<erf fj^e&&r$ "fe? S<ir*y?/&
f'esfzlfz ujejfe*

08:40 New Rinse @ OK 19 turbid Peak Ck has
dropped to level of algae covered rocks & is relatively
c-tGhK Cfcij ^K -Jhfdjt ^ ^•ffj&'ty -^f*v/. *T £(*f £*t>*f£»^..
CaL O. w l ,,

09:00 Setup flow transect @ OK018 station on Peak Ck
Dont L.J in f /^'-&%&&$ &%£.&!*£xtfT. Ifrtf. r<'2(>\n,, fgsjitkto.
12.05 en^

Oi:2 i L i=i k f @KQL^J>k/Ml 4/ >«» >«/*»>.
i^ ! 15 ,,|^ i?An.Ar &/.,,..J^O.'fP'i/ /picket »**•
^ i Lj[-J dL-J^!-*«?- 6jit.?Wv..^..-£fe,-^ JQML 0 *A ww. tr
-M e|^s sik t-i(fan. ^j:
Field Param. pH=3.93 sp.Cond=143uS/cm T=17.6C DO=8.72mg/l
^ DO s s = H^L a&t*-W4** T^l'^SMTi4: .All fics-.-^ck^
^fe ^i '& 6^ ^ 6 4c U-.ficJ &><'_ £.?&&* A' e*£ **L l*t?jT L
JI±-Jtk££Lj£*]lcs£jy&t&$&0b2 »*sSc<&fA £*t. m.o_! ^ ? ^ 5a«c. cont.
-l fLJt^J$3L-j^^fygjtdt# .T^T^'5£ 4V-^^/t^_V
-X D±$&.^MZM% fl/?/V % ^ ^ . A/ i J& A/7V
..i: {FtetiL-CJLti Qk-QjS'.s^/ms - m. kdv*s~ -"f« ?"^ /*• 4^- s^ mc cont.
pH=3.91 spCond=151uS/cm Temp=17.68C DO=8.63 mg/l
-^JMjk£UJOL!% Qjifc3Z!+U TtvL* 3*2, NJ\A

10:00 All samples this station filtered w/ 6ceTech 0.45um
f x»&/ i" irma^effeel "f? ^ ' ^ V ftr^-prss^^d. 3>i /»MV«ti

⑥ 7/18/07

Date	Time	#	Desc.
7-18-07	10:15	1	OK021 facing downstream - location
"	10:20	2	£7£«! ,£i>^ ^ ^ f
"	10:25	3	OK021 ID
"	11:00	4	OK024 left - fiet.e-W7 upstream
"	11:00	5	OK024 SD 001 Sample
"	11:09	6	OK024 ID
"	12:50	7	≤«£* ^^"r tf*"/ ******
"	14:10	8	Chan spte\ Strpif
"	14:10	9	OK017 SD001 ID
"	15:25	10	OK016 transect facing upstream Ae KU * * bkgd
"			iv̄Tfu. tfKtf^-sp-^-^{1}- ^{s}*^{m}r^{i}
"	16:05	12	OK016 SD002 sample
"	16:10	13	OK016 SD003 Sample
"	16:10	14	OK016 ID
	&<'ib~	≤*	OK015 transect facing upstream
	17:15	16	OK015 SD01 Sample
	17:^/7	_	o*o\<r,.\Q
	18:00	18	OK014 location facing upstream
	18:20	19	OK014 SD001 Sample
	18:20	20	OK014 ID

7-18-07

10:15 @ Station OK021 C"[illegible] Jeg^LK,,,*?'

100 yds upstream of confluence w/ Peak Ck.

WW C»U*et &fr02.\ SO.&l W-.& jte*t./U-t*J&'*i«-

w/ SS scoop. ~3" sample depth in 1' water.

Mec/_iW ^ r i 3«A*£

?*>_?2) gf$ 44/ AT* <? &'Zl£MlM!iZ.EVf.&L-. W 3-U*v

11:JQ° C*j\g* OK024 SD 001 ~h\ <;<:«#*, *>/-, ktf\

Peak Ck in center ;* bucketbed dam. ~ 3"

Sample depth ,3" water depth

reddish orange, + brown med sand w/ some 9*HMjf.

angular ,ve/d/rs * ... Collect w/ SS scoop by Stryker / Hickerman

J3J &*<»*£ -&« UOC (2) '&Z . , lu&ic..pi^{H}/ABA

(1) 2oz for MC (1) 8oz SVOC/PCB (1) 8oz Met/cN

OK024 6F^{oc}i^li5 36°24'09.767N 81°20'04.199"W

12:40 @ OK021 for flow measurements.

_J)*a3$_ht -riw /ey be?&k^

^_/3l^5" Colletf QJL&ZL SU/.&OI .yk 4*ffi*f / immersion

^.^TA^fB 4**1*/--.....Ity-^Zpto'&Lpy /AcJCr-.tMSA...-.-

pre Eureka 445 pH 6.85 s.c 71 as/cm Temp 18.25C DO 8.62 mg/l

DO sat 103.73% ORP 124 mV Turb 9.7 NTU

(1) 50ml pre-pres TM (1) IL poly to filter (1) cube container for anions / cations

(2) 1/1 amber SVOC (3) 40 ml pre preserved VOC

13:15 Filter dissolved metals w/ 0.45um jar pre-preserved 500ml

13:30 @ OK017 for flow measurements. Dark in flow leg back

13:50 Collect OK017 SW-001 fm center stream @ OK017 transect. Collect by dipping/immersion by Striggow/Ackerman
(1) 500ml poly pre-preserved TM (1) 1L poly to filter (1) cubetainer anions *&*»
pH 3.9 sp.Cond 164 µs/cm Temp 19.6C DO 8.42 ty^/L'
O_2 sat 103.5% ORP 411 mV Turb = 9.0
GPS OK017 as 36°25'39.591 N 81°20'32\3&iW

14:10 Collect OK017-SD-001. ~center stream ~10' upstream of flow transect. ~2' water depth
Collect ~3" seal»w1* J'fti .&...!' "Hate*- .d*pik +/& scoop
(1) 8oz total metals (1) 8oz SVOC PCB

14:20 Filter OK017SW001 DM w/ 0.45µm filter to 500ml poly PS-fftt^'i^

14:40 @ OK16 below confluence Ore Knob Br. + Peak Ck
F/eii/ e&"fij.. fÀ ~ffe"*/ iesi
GPS OK016 @ 36°25'13.110 N 81°19'23.986 W

15:30 Collect OK016 SW001 6' fm left bank by dipping containers. Sampled by Striggow/Ackerman
(1) 1L poly to filter (1) 500ml pre-preserv Total metals (1) Cubetainer anions
t&tt Collect OU16 SW002 16' fm left bank Same method + containers
15:40 Collect OK016 SW003 6' fm right bank Same methods + containers

Parameters	pH	Cond µS/cm	Temp C	DO	O_2 Sat	ORP	Turb
OK016 SW001	369	230	20.9	8.21	102.4	460	14.4
2	4.04	130	21.0	8.21	102.3	425	10.3
3	5.92	%	H-:2	8.19	101.3	131	5.2

15:55 Collect OK016 SD001 6' fm left bank w/ SS scoop ~3" sample depth in 2' water
Fine brown sand w/ yellowish floc
Cl) foe. -frfc/mcfrh CO &*\ &VPCf&8.

16:05 Collect OK016 SD002 16' fm left bank w/ SS scoop ~3" sample depth in 1' water y^"ic.....i-s'PM.n sands + silts w/ yellow floc + some grey clay
(1) 8oz tot met. (1) 8oz SVOC/PCB
/<H^ Ccl]&& 0)cjpl6 Spo&s £'*£n. R±{MM± */&sf*>f.
~3" sample depth in 0.5' water
(1) 8oz total metals (1) 8oz SVOC/PCB

16:20 Filter all OK16 SW to 500ml pre preserved w/ 0.45µm filter.

16:45 @ station OK015. Flow data in flow logbook
17:05 Collect OK015 SW001 at stream center by dipping/immersion of bottles. ~1' water depth
U) f^ W fft-fn*TJ'J-X#^a_{tg}r_G') H ft*!t.fH.4*%r (t) fi*iehi*<£_fr., ch&site) [illegible]

~~17:15~~ 7-18-07 ~€yi lee v~~ o&&¥?ii&^m ~~composited fm~~ 7-18
OK015 SW-001 Field Parameters
pH = 7.14 Sp.Cond: 35 µs/cm Temp = 21.0C DO = 7.89 mg/L
DO sat 97.05 ORP = 47mV Turb 4.1 NTU

17:15 tvi'Uct °Wi.$b(?0\ C ^ p s . W &v.f&te«K(
aliquots f.^ ,pft. 1 above OK015 transect. Fli^g^ bfMri sand i&j!
large pebbles (rejected)
(1) ffic t$- met- (^) .4^ SVOC/PCB

17:25 Fi^t<f^ OK015 SW001 &7.m*i piL^t-s^M »~(...&m.j&._A&i.,

(10) 7-18-07

17:45 @ OK014 flow trans ss-cf- .Utah M flow logbook
GPS @ 36°25' 12.330 N 81°19' 22.762 W 798m

18:00 Collect OK014 SW 001 by dipping: Striggow/Ackerman
(1) uz ..#& pres. for metals (1) 1L for filt tfl*£, (1) cabetainer for classical/anions

18°*f_ CvllccT .£K0Mt.SU/WlU MY-tewe* ***** method
(1) 8oz. ,-yte-> pres -. TiA 0) k & A k v....(l)&hte##£i£f. classicals anions

Field Param pH = 2.86 $IL&L ml = 1705 µS/cm Temp = 19.8c
DO = 7.14 mg/c D&$,T 88.6% ORP ^/H-W -J-UJ' = 2.9 NTU

18:15 Collect ~~OK014 001 SW~~ OK014 SD001 fm bend
above OK014 transect. ~1" depth of Orange med & fine
sands. CK bottom mostly cemented together. Collect w/ spoon
(IIS^TM (l) «-* 5>4?£

18:20 OK014 SD001 D :*f>t*r from same pan
(1) 8oz TM (1) 8oz SVOC

18:30 F.\-hrS OK014 SW001 and duplicate to 500ml pre-preserve
both K j>JO>'M,v*'hHvr-

ZhA.'f... wK-

7-19-07 (11)

07:30 all @ site command post Assign i*|C-aj2t
Striggow/Ackerman Stream system
Jager / Johnson Tailings impoundment
Meyer/Matthews/Martin 19th cent U,?,** ...fHs&£
Pfcfttffi.../cxrf /Howard 1950s mine → 19th <-r.>ifh f^
Wendell/Grabb GPS potable wells
-U& jrVo. ...^WW*.-*e 7-/7r^7. %r .Hits to'ti**.
New River is ~180cfs compared to 150cfs on 7-18am

8:40 Striggow Ackerman @ OK027 ~ 2000ft
below confluence of Peak CK & New River.
Rock steps to river. River wadeable

8:55 Collect OK027 SW 001 b/ &J/^*J y--/-r&*ac£ite*sli-
@ mid-river.
(1) 500ml pre preserve for TM (.)")- It-ptrL f-r.^it'tre
(1) cabe tainer for classical/ani'*** (iJHaH&gr r£r SVOC w/ MS/MSD
Field Param. pH 7.11 Sp Cond 71 µS Temp 22.7
DO 7.22 mg/L DO sat 41.15% ORP 63mv Turb 7.8

GPS @ 36°26' 18.001 N 81°20' 46.742 W

i-i'£f Xeihtt .0.KQ12 Wp*i y/5^ sw fm
mid river in ~2" water, ~2" sample depth
Med bleG'Jr<\ med sand w/ small pebbles
(1) 8oz TM (1) 8oz SVOC

(12)

7-19-07

Photo Log

Date	Time	#	Desc
7-19-07	8:45	1	OK027 location
"	9:15	2	OK027SD001 sample
"	9:15	3	OK027 ID
"		4	
		3"	

(13)

0930 Collect OK020 SW001 by dipping/immersion in ~1-2' depth water mid river immediately above riffle above Peak Ck confluence

(1) 500ml pre-preserved TM (1) 1L poly to filter (1) carboniser to check for

(2) 1L amber for SVOC

Field Param: Temp = 23.4 C Sp. Cond = 70 uS/cm

DO 7.49 mg/L DOsat 96.5% pH 7.52 Turb 7.4 NTU

End of Log

0-10.0'

P. #y (a*f £ 2.

Sharon Matthews
USEPA Region 4
EIB, ES, SESD
980 College Station Road
Athens, GA 30605
706 355-8608

07-0507

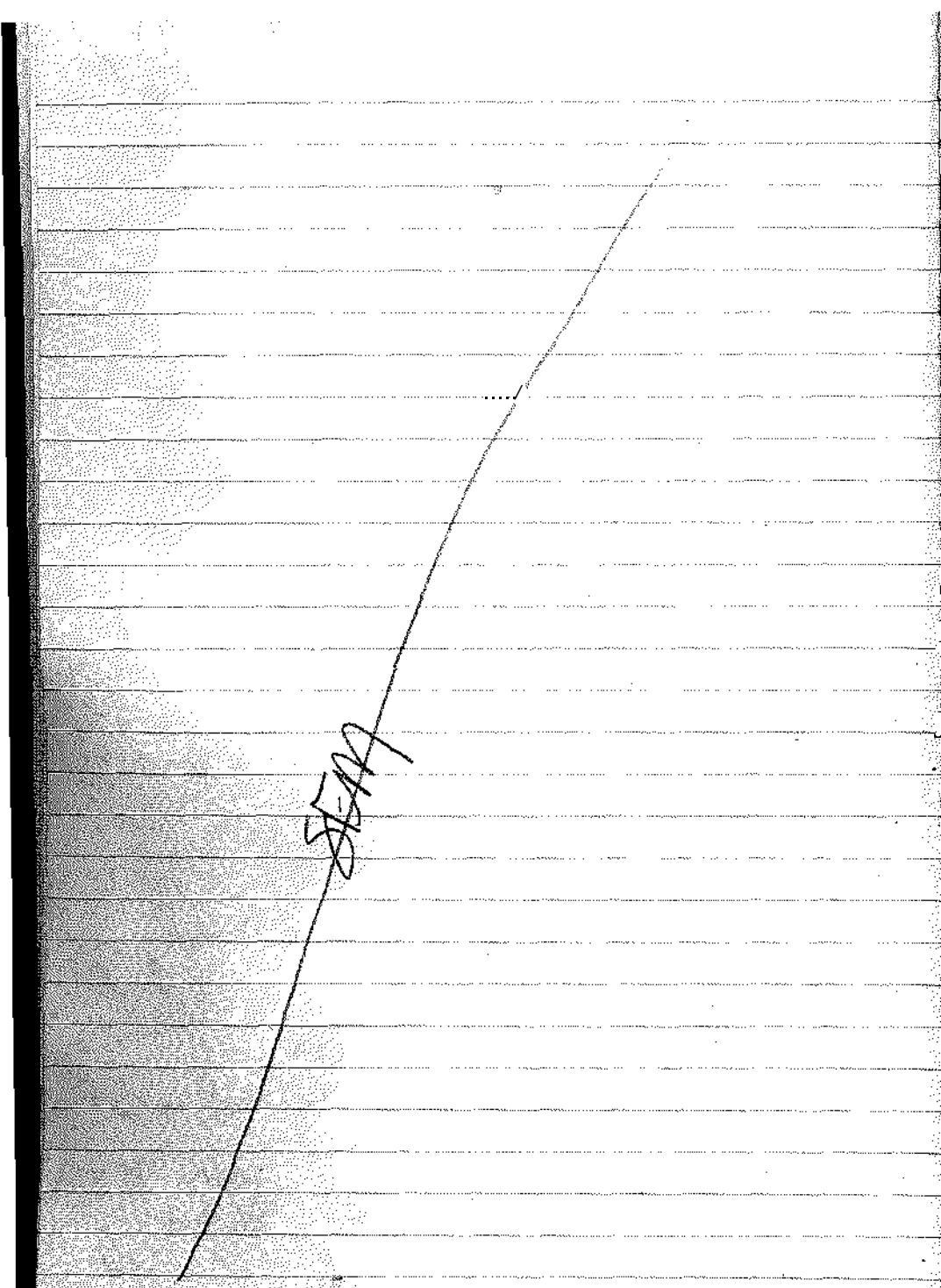
7/17/07 ①

out to tailings pile @ 1215
Tom Moyer
Don Fortson
Sharon Matthews

OK358 - WA - 001 0-12"
collected from tailings near centerline of dam base
CeAMded @ 1225 w/ hand auger into glass pan w/ sst spoon
SEM 7/17/07
filled 1 ~~1~~ 8oz for total metals, CN
1 baggy for paste ABA
in meters 297546 N 401093 E elev 894.7

see Spiral bound book #4 for descriptions

Don collected sample
Tom did GPS/ ^v>v|pV .c^-^o^p-K.
Sharon field logbook
SEM 7/17/07
OK-357-WA-001 - 0-12"
collected from tailings near centerline about halfway down dam face
collected @ 1240 SEM 7/17/07
~~297546~~ N ~~401093E~~ ~~894.7~~
296237 N 400295 E 930.9 elev
filled 1 8oz container total metals CN
1 baggy for paste pH, ABA



1\Y\\®1 ^ &

Photo Log began 7/17/07

①	OK- 358		site location
2	OK- 358		sample
....5	Die...	^^"3 •-	W*^~
..4	O^-	3 ^ S	- S*or>*_Z>U -
£	Die	3£W	..tao^*-
6	OK	356	Sample
7	&L	CArA	v
8	O^fc	'^5<	\ocJU*^
9	OK	355	sample
10	OK	355	duplicate sample
1	\\	G\t	3S .4 5^>w^i^
vL	0^	^'H	\oc«^^ ,,
j_.	|3-	Gl^-	j.'S3 \oc ^i^
W;	..QiC	353.	£><3>r**J{> W~
O	DL..	D^	\0CuA\Awr
\W	\J-\Vr:	35	J»**AW|y \€L*«
n ot- 5S ^ \° ^JK ^~			
18	OK	352	sample
H	0 lc	3.CO-	\oc&i% **
l^>	O p	3(TO.	^>r^aU_
II	Q>	3ol	Uca*r-
XX_0L		%o\	S&^le

SEM

mercast, RAIN 7/17/07 (3)

Ok.- 5&1-WA-061
collected w/ hand aw^ A into gWsS
pan & spoon to

see 5P\r al bound Vo^B *1 WAi>U' \i,-C\V^

Don - collected sample
Tom - GPS/ descripti A-V
SEM - logbook

QL- iSW-U)^0b\ 0-12"
Sample collected from tail ^ova <>K^
center line near dam crest

collected by hand auger into glass 3>«-V- 4
sst spoon

1 8oz glass for total metal 5, CN
1 baggy for paste pH, ABA

see *3 γ iS¹ &A vox/wo note b ao\C- 4 for
a^_6C-r\i?.-Y> ^v
colle cutA @ 1300
collected by Don, W ' 6f5! Arf^ri,^ ~
SEM/ logbook

297528N 401105 E eve>i an 61
lvj.p

after he VUJ y rain 7/17/07 (4)

OK-355-WA001 - 0-18"

1 8oz for total metals
1 baggy for p^rlt P t^l, ABA

field sample, tailings near center line
midway between OK354 & OK356

collected by hand auger into glass pan +
sst spoon

297459 N 401126 E ~~920~~ SEM 7/17/07 902.5

Sample time @ 1440

collected by DON GPS/descripti i/v. = T
log book SEM

sample descriptio in spiral bound
notebook #4

collected duplicate

OK 355-WA001 D 0-18"
all info
Same as above

7/17/07 (2)

OK 354-WAD01 0-12"
collected @ 1515 w/ hand auger & glass pan & SST spoon

1 8oz total metals
1 baggy for paste pH, ABA

collected by Dan GPS/ description by Tim, Logbook SEM

field sample timing near centerline 1/3 distance between OK 353 & dam crest

SEM 7/17/07

^~13«V W 401142E elev 901.9ft
401142

RAIN 7/17/07

/lk 36^ Lv'n ' 00 1

.....&.eJLXs<*^le. near. Centerline 1, WL;«.^ •:

.....Gi^a...'Sd/- 10 01 ^VY>..U3'SG^:

collected @ 1530 by hand auger

Dm... Sampler ... Tim GPS/description

SEM 7/17/07

S£ivs. V vW>lc • • i -i

.OJ^CA^^K^K....sA*^... .Sof^ fecofwX ..W3-W-i^M^lc

18oz total metals

1 l)(^SM P^A^...QH .M^nT

297302 N 401156 E 901.7 m

will add CN to list of analytes because of bluish color of sample @ depth

7/17/01 (7)

~—dt 35\ ./QjL-QaL--.. Q–.P.V ...

Collected @ 1640 w/ hand auger glasspan & sst spoon by Don

GPS / description: Tim SEM - logbook

OU^Cf ip\v>>=-.....x^ ^v'\v..aA Vtwyxd.. VvoljdWc. # H

field sample, tailings from eroded channel bank, Send of tailings area

297120 N 401041 E elev 893.2 m

\ &G1 5 ^ \Yue^aJls.....

1 baggy paste pH, ABA

OK 352 WA-001

cTHxZSXpl^Ss*. xii.L t>^v .^po-vx,___

\K ^ O.... CA-VO<7 " p ^ \ ....-D*ry V^ftw.....

Tim - GPS / description SEM logbook

<AjiWv-vpi^. ^ S?Vo\ W*\A. N> k boot # H

field sample dark fine material in eroded bank on right bank of erosion feature near Send of tailings area

2 8oz metals / SVOC's

1 k&c^ oo^e. fM / Afclft _____

297176 N 401057 E elev 899.9 m

£%&\ TV (2/

"__Ojt''5aD..x#4-jE3J.. ..._ ... O r C * '..,,.. ...

... ,CvrvvV<4.. SO^C^LL £><&^ch a.t. T-CW.U,A^>

.CUJL<t

.....c^ **fek.** c^*J^>,.....;^v^aG,,fpC^-5.....

1 baggy paste pH, AGH

LoiWcWa.....\x>__Yvfi/v^cLcw ^ v _ - i ^ v t o

.....-VtiX^AC ^.....LjCSJ3L,,-T>fl^\v\..._.....T) ^y^JD.*^**-.....

3 Tlj.W5 M_..Ho. i at£....'"'.....If tU)7^> IL.

_\.<av\. t i V S J.....(Afi.^C'V'-iflH /taw. .....S"^^-^k..Ww..|j.4;td£^.

sample described in spiral notebook #4

J

Off/It--

7/17/07 ⑨

OK 301 SL-001 0-6"

2 8oz - metals / SVOC's / PCB's
1 boxSSy - paste pH, ABA

Collected @ 1800 by Dan w/ hand auger into glass pan + SST spoon

control sample collected east of tailings area

Tim took GPS, sample description SEM logbook

Sample description in spiral notebook # 4

sample location 40 meters from following station

2974456 N 400936 E 926.6 M

go back to command center to drop off samples & dirty equipment

SEM 7/17/07

End of Day

DCF
7/18/07

(10)

DON FORTSON, TOM MOYER
DF DCF

7/18/07
1120

_w^S5S M£M&.....W....I...

..J/tMftzs. -TMM f svot %m , fds-k fff. t.W?l
collected at 1125 by DF with hand auger.

_5fw>n f Asi^A- &l^$s part- 5O-*K{?^ ~HXta 0*-^[.d.tfiH?.*..

SAMPLE LOCATION - 296813 N ELEV 957.4M

.6% WM*^-..... HGObbte

4 5&<f%t.....Vzs£R\Pri6N'- fad j fine anu/i $ei) ir_.
1 4.....5iMi/./.^f%f IS tsz>di*4 d#*>n ihchUl
-i 'tix,,.....l&CAjf~t£^\ IS <=CK

-L-

n cfui £$ - OK555 sample l><f tlopr'
,...»M.....5.yc.....

1140 SAMPLE ICE OK

7/18/07
1300
DF

OK 552

-I

SAMPLES - T. Metals, SVOC + PCB, + Paste pH ~~+ABA~~ ABA
.....cj>ikakd . *>f 0/^.....^.....HE^&Jfh AsM-.....<&Mj^-f
metal spoon, and glass pan. Sample taken at
.....QT.C " 4cfsih t. .....

SMA& UCMU-&~.. M^M.M..... Bi£V3Ms4 n.
&# M&f&r'/.....-¥MiV7^ .....

SfrhtL&..&£$£ppTiof^:'~'_Hcq ...iM.jn :rmj\^^ii. at.....
. .w^Cl^M>cr'^ rock_^ppro-f.j;'^x di&K<>£cr:.....

ft CTUM^' 3 - OH&L At& T: T?ZJQ 1'eg o^
By Moyer 1 - OK552 sample location
1 - OK552 sample

7/18/07
1345

0£551 %y^

SAMPLES - T. Metals, SVOC/PCB, + Paste pH/EDA collected at 1345 by Df with hand auger spoon and glass pan. Sample was taken at 0-6 depth.

SAMPLE LOCATION - GPs could not be taken. Site

...W^5 TitLm^d .Ajv&. tco^lh^$J~c.S *fj.ll fat 7?ki&*-\

.....w^<»H r^jTUjrr^

-L. SM¥i£ peSQtipTi&Ai- y^^'5k-hn'wn 5* 1^ ^U *£./*7

$&LL_&f.Z.f} S^t\a j $foaM&r~A.vx,l . . ^ I * « 4 - .

Pictures - 0K551 Location

0K551 sample by Meyer

13SS S^^B^^Cj^^krtr^lY' iSS °^'

•L if/i/c^

DKSS^_ /^H.

l- $ftwPi&rlf.M?hdi f fiU/ftg,^. fiskfri/m^_pf.....

collected at 1430 by Df with a hand

^_AMA&rt ifw-fr^i *^J ..$fUsi..p^*K.* 5^^-k-

-l_ A^JS W*.$ O"~$"» ^

V

SAMPIt... UC/itfM- ^c-W7/V GLfV-.?#,<?...«

.^/??/<=< -W4-33 ē"

SAMPLE DESCRIPTION - Yellowish-brown sandy silt

-l_ w*'H^S r»cfe>

PICTURES - LOCATION by Meyer

f SMM^^ / V 5"£ £t6L££ ^C& &£

7/18/07
DF

OK553 1535

SAMPLES - T. McKinnis, SVOC/PCB, + Pastepth/ABA collected at 1545 by DF with hand auger, spoon, and glass pan. Sample depth was 0"-12".

SAMPLE LOCATION - 296867 N ELEV. 943.6
400723 E by Moyer

SAMPLE DESCRIPTION - 0"-6" dai'lL -mrrvJi silt with sand and roots. 6"-10" bright orange-red silt. 10"-12" light brown silt with some charcoal.

PICTURES - 1 - OK553 LOCATION by Moyer
1 - OK553 SAMPLE

Cooler ice - OK at 1615.

7/18/07

SAMPLES dropped DF 7/18/07 driven to 1615 DF command post to Mike Crowe by Tom Moyer.

7/18/07

OK551 1640
DF

SAMPLE LOCATION 296899 N Elev. 933.6 M
by DF 400571 E

SAMPLE TAKEN 7/18/07 at 1345.

DF
7/18/07

DCF
7/18/07

(13)
7/18/07
1650
Df

OK557
SAMPLES - T. Metals / Paste pH / ABA and TZtP - Me fats caJ/ec/ee/ by Moyer at 1655. Chunks of slag from slag dump were removed and broken on plastic sheeting with a rock hammer by Moyer. Rock hammer had been field decontaminated by Moyer.

SAMPLE LOCATION - 296588N ELEV. 943.9 M
by Moyer 400720 E

SAMPLE DESCRIPTION - Dark grey chunks of slag.

PICTURES - 2 - OK557 SAMPLE
by Moyer 1 - OK557 LOCATION

COOLER ICE - OK at 1715. Df

7/18/07

7/18/07
1735

OK558
SAMPLES - T. Metals, SVOC/PCB, + Paste pH / ABA Df
collected at 1745 by Df with hand auger,
5fi00f\ i J-^d. *ff.*<6$ fi^an. Sample was taken at 0-12" depth.

SAMPLE LOCATION - ,x^]i^Hl. N Elev. 939.4M
by Moyer 400748 E

SAMPLE DESCRIPTION - fir*. V^^-hr^tct of
jyif,oUvMT\ rfa... £Ca?£&....<jOt\d,....W^ slag
-f.O <R r-c4;u<

(14)
7/18/07
1735
DF

OK558 cont'd

PHOTOS— 1- OK558 LOCATION
by MOYER 1- OK558 SAMPLE

COOLER ICE — OK #1755. DF

7/18/07
1820
DF

Delivered samples to Mike Crowe
at command post.

7/18/07

All sample descriptions 7/19/07 (15)
inspiral bound notebook #4 by Tom

OK512 total metals 8oz
0-12" SVOC's 8oz
(baggy paste pH/ABA

Tom Mayer
Steve Loufaly
Scott Martin
Sharon Matthews

to location @ 0819
① photo of location ② photo of sample
collected by Scott w/ handauger
into glass pan + spoon @ 0825
also by steve
sample description in spiral notebook #4

296626 N 400769 E 956 SEM 7/19/07
957.0 M
E. end of barren area at top of Ore knob

OK511 total > metals 8oz
0-12" baggy paste pH/ABA
SVOCs 8oz

collected by Scott w/ handauger and steve
into glass pan & spoon @ 0840

S. end of barren area at top of Ore knob

photo of location ③
" " sample ④

296633 N 400720E 955.9M

for descriptions

7/19/07

OK 513 - north central part of barren area on top of Ore Knob (in erosion channel)

0-12" collected by Scott and Steve w/ hand auger glass pan & spoon

totals metals 8oz
SVOC's 8oz
1 baggy for paste pH & ABA

Collected duplicate here OK 513d @ 0915

⑤ location photo
⑥ sample photo

296778 N 400747 E 961.9 M

OK 514 - W arm of eroded area just below top of Ore Knob in erosion channel

0-12" collected by Scott & Steve w/ hand auger glass pan & spoon
collected @ 0935
total metals 8oz
SVOC's 8oz
1 baggy paste pH/ABA

⑦ location photo
⑧ sample photo

296769 N 400700 E 967.2 M

UA_^ UW(AAI IU*\^!vj \s\ _y

bound notebook #4

7/19/07

OK 520 - downgradient of operations

6LM_^ 0~{O^U (Wt 2 v'k^si^ie)

collected by Scott + Steve w/ hand auger glass pan + sst spoon (sp&nrA „u> A i wet)

1 8oz total metals
1 8oz SVOC's
1 baggy paste pH/ABA

photo (9) location
(10) sample

OK550 - WA 1115 collected by Steve + Scott w/ hand auger, glass pan + spoon

0-12" c<AUoV^l @ 1115

1-

rock at partially collapsed shaft 2-5

1 8oz total metals
~~1 8oz SVOC~~ JSwCL-Jjfcy deleted by Tom
1 baggy p U/i te pH/ABA

photo 11 locati*v*
12 Asample

shot bearing of 1V8° from sample to tMv^U^ of shaft 2-5 - 60' to center of shaft from sample OK-550

7/19/07

ok 501 - control sample along strike of.

„ \j€^A.....erOYomp WjrfriA^e^w ..6^v«^-e>. o?~ ^ <^4

_ 3- t5.>_5u).„6<- Ot.sSQ.....]

-Dr.k^h.....CLolk.^X ~±>^ .6kjbc"^"5cott.'.....".

—x£ j.....V\^Jt.CX^J.VC.-T \.tJta_... JC&Q3._'^x-nN.^.ss'f fęp*,

__ _&ot." Vn^|>l&..T.WA.....

\ ?>0.X...- SVOC^.....

.....kio_^ p q ^ ^ Collected

flV&-to....\3 ...l^ccc^b-.^^-.....

.....IT ..• -'Sctw^.v^-.....

_ $RMflj£ VB5CH I fVòn/' '/A> 3t0t^T wf

.....iihfop

.....J32^

CKS23.....; Df

STATION LOCATION — 296777 N ELEV. 963.7 M

kij ~^t^_.....4?06 */&_&_.....

(19)

7/19/07 1400 DF

OK556

SAMPLES – T. METALS, SVOC/PCBs, paste pH/ABA collected at 1410 by SZ and SMartin with ~~Acid~~ DF Hand hand auger, spoon, and glass pan. Sample depth was 0-12".

SAMPLE LOCATION – 296892 N ELEV. 926.0 M
by Mayer 400854 E

SAMPLE DESCRIPTION – Yellowish-brown silty fine sand with mine rock with a lot of pyrite

PHOTOS – OK556-LOCATION by Mayer
OK556 SAMPLE

7/19/07
SEEP 1 1420
DF

LOCATION – 296891 N ELEV 928.8
400827 E
PHOTOS – 1 - of location

7/19/07
SEEP 2 1430
DF

LOCATION – 296911 N ELEV. 920.2
400837 E
PHOTOS – 3 - location

DF
7/19/07

7/19/07

DF
7/19/07

(20)
7/19/07
1440
DF

OK519

SAMPLES - T. Metals and SVOC were collected by SZ and S Martin at 1445 using a hand auger, spoon, and glass pan. Sample Depth was 0-12".

SAMPLE LOC:A77dN- - 296970 N ELEV. 922.0
by Moyer 400891 E

PHOTOS - OK519 LOCATION
by Moyer OK 519 SAMPLE

$Z,yA,p U &CbaT*p4i0 h- "~ /"I lj££iceous silt with root matter

-J-

7/19/07
1455
DF

JEt(T 3

PHOT 0 - 1 - LOCX=hz'n

6/-X »UVJ& /LOT ftcdi'C

DF
7/19/07

(£})
7/19/07
1500
DJ

OK518

SAMPLES T. METALS AND SVOC collected

^c-h.. 1516 by... $Z....#^d...5 ftf-rkn ^W

a hand auger, spoon, and glass pan.

•$&y*^filt dcfpfh . M/*S _.0~/,2". ...

SftPAFtt L4C4TM*Js >*3 lO&S.Af B^L 1H$¥^

_U{ tteyer . . ^O^C^ £

SAMPLE DESCRIPTION - Yellowish-brown silty soil with abundant root matter

P0oTO£>z^OKSjt L.oGwr/6/y

d&f*% SAMfi? ... 6£&£*>%<

5AMfa& ..(.ce... - »<- ^ /533 7/19/07

i^O^H'f ... /fer

^_SAWPi£$~ '2'/lC'M^ @.^y^J Si/oc e^Heelz^ ^ *J?*1.

By S. Martin @ 1030 using a hand auger, spoon and glass pan. Sample depth

W& s.....e - / ^

SAMPLE LOCATION - 297042N ELEV. 932.3M

by Moyer 400798E

LOCATION IS 30ft south of coordinates.

SAMPLE DESCRIPTION - Mycaceous fine sand with root material.

PHOTO - OK517 SAMPLE, no location photo

£y 5 M^rl"^ -

DJ 7/19/07

DF
7/19/07

(22)
7/19/07
1635
DF

OK517 - DUPLICATE

JAtifl&Sy JZhzfiJj, &rd..$y/o^
. cs//ceAJ tcf- j6*/d_,,6u S^rf'^\
using a hand auger, spoon, and glass pan. Sample depth 0-12".

$/\M£l£ ...LbCflTtpfJ -. ^ IH- $am... 0£.$r*$L&4t_

5mftB ^cafryoAi- t*yc*ct&& =£k^ <&*A.
vaxk .CP.Cl. m&4cria^L.

n HPT05 - NOM£

SAMPLE COOLER ICE OK at 1650.

7/19/07
1700
DF

OK515
SAMPLES - T. Metals and SVOC collected
aj~.l^HO.bu, &.$&niin .U&'^f 1
hand auger, spoon, and glass pan.
^l-^r-fk, gLcfth CirJZ"

SAMPLE LOCATION - 296885 Gi&v ^sx/on
~*4OQ50*t

SAMPLE DESCRIPTION - 0-6" fine sand 6"-12"
i CAyey.W?^

% © r _ 6KSJ6 LacATiP^J_
Oit&&. SfktffdZ

DF
^hnl&Or

DF
7/19/07

(23)
7/19/07
1725
DF

OK 500

SAMPLES – 17hB[^tSrt 61/OO col/echd ... jQj
at 1730 by S Ma.vfi O using a hand auger, spoon, and glass pan. Sample depth n 0-12"

SAMPLE LOCATION – 296887N ELEV. 924.4M
by Moyer 400402 E

SAMPLE DESCRIPTION – FINE SANDY-SILT with thick root layer.

PHOTOS – OK500 LOCATION
by Moyer OK500 SAMPLE

UOOLBK fc£— akL cct 1745

OK502 7/19/07
1800
DF

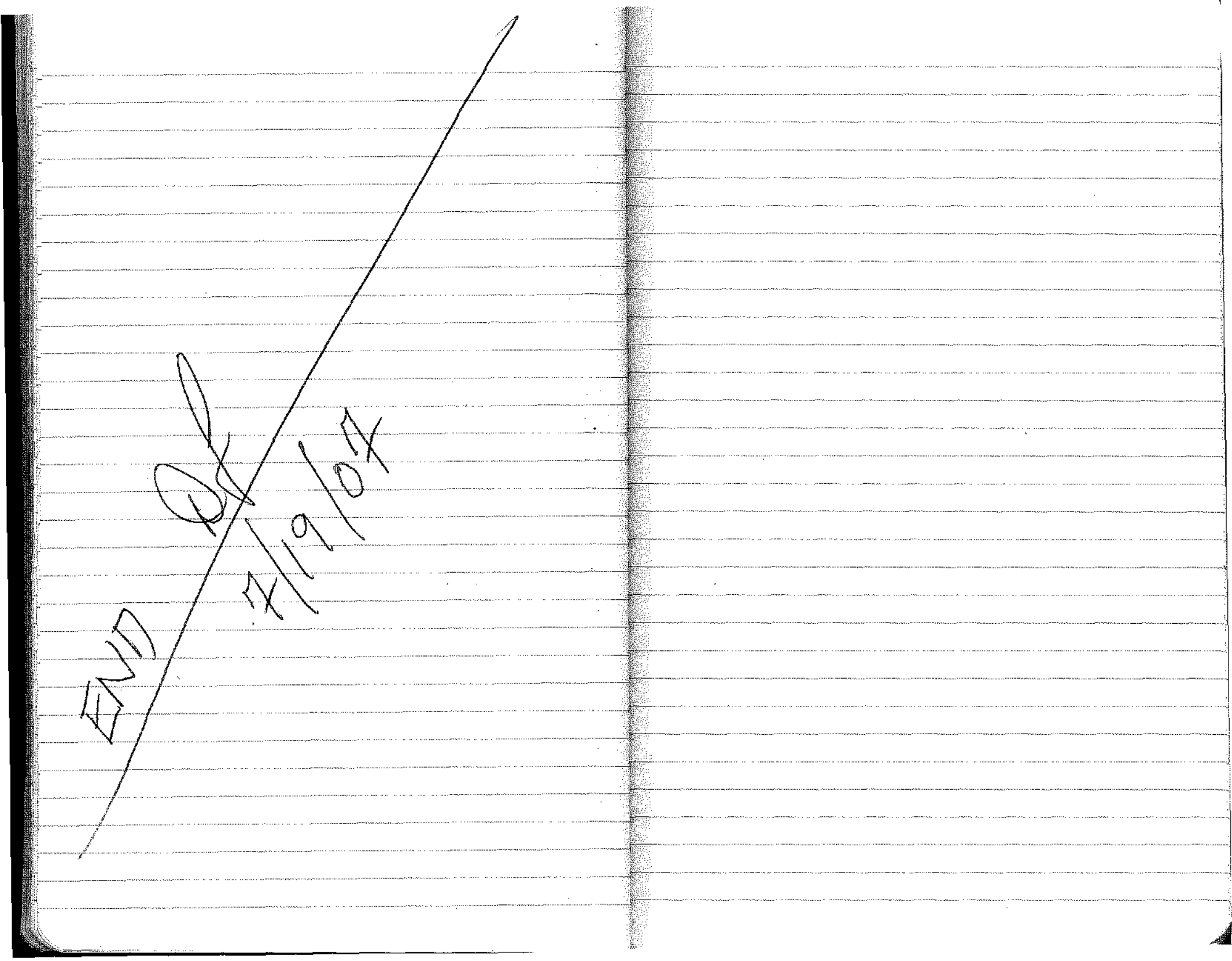
SAMPLES – T. Metals and SVOC were collected at 1810 by S Martin using a hand auger, spoon, and glass. Sample depth u^-%. O-IZ".

SAMPLE LOCATION – 296786N ELEV. 965.70 M
400949 E

SAMPLE DESCRIPTION – Yellowish-brown silt with rock fragments. Root layer on top.

PHOTOS – OK502 LOCATION
by Moyer OK502 SAMPLE

DF
7/19/07


END
4/19/17

07-0507

! oV (k

ORE KNOB

ffct$deft rflUr &f2f u k f d r . ' Cie<;>/^

Ralph Howard EPA R4

5a)'tf lite fa) £?A R¥

Mark Bean EPA SESD sample Team Leader

U&\mttw fit4 P4

site OK411

.^cpr^'e OK*fff-$L-cDi

O-6 INCH

n>r/tk,hk , $\joo$_f$ fc&

SAMPLIE TIMO 0945

Photo NE-SW Approx 10 FT NE of OK411

Sf»t*?L£ oK4/£--$*-•001

O-6 £N

loT WÊ-7ALS, SVOC, PCB

$Af*\pLB ///Me. /QZ*>

PHOTO N-S ApproX ZO r=T /J ^ OKf-fZ^

SITE OK401

Sample OK401-SL-001

SAMPLE TIME 1100

TOT METALS, VOC, SVOC, PCB

MS/MSD

Ptarte NIE.-SW Approx 15 FT NE of OK401

o^ #*Jfi y/ty/ar

5 ere ^c^mdA) \ #,<^#

SITE SAMPLE OK400-SL-001
SAMPLE TIME 1205
TOT METALS, VOC, SVOC, PCB
Photo E-W Approx 15 FT E of OK400
SITE OK 402
SAMPLE OK402-SL-001
SAMPLE TIME 1235
TOT METALS, VOC, SVOC, PCB
/TND+6 S-M Aawx iQ>~r $ af4y4 Q^tfcz

Rain started around 1240. Got back to
Ail I $t hz, cd-./&>d0,

elide? •#«&?
SAMPLE SITE SITE LOCATION OK415
SITE SAMPLE OK415-SL-001
SAMPLE Time 1625
TOT METALS, SVOC, PCB, CN
Photo) *4L0 - S£* jjffih&i Affrtt. /JT rr ^ < y
L&p/vA Car/* noHd .Mock c/y , omrt/o MU<A A?
OoAsj^\jor fa^ydhi, M4.-Nri.xl ted ^li^lvf oily 0^W\
Material sample designated OK427-SD-001
SAMPLE TIME 1640
5UQG , pO!5
Provisional sample number
Photo NW-SE Approx. 15 FT Away 4 FT deep
trench.

07/17/02

ofrEKAloS 7/17/o-r 5;

6!TL uccAn^ £>#^7

SITE SAMPLE OK417-SL-001
$A(Afu£. Time 173*5
TOT METALS, SVOC, PCB
fe>uJbW xfc>ium£.. AecJ-Kitse /vfjsif <£l'«*l.. />
gravelly
Photo .fc:-u/ Avptw '2&.fr.. from OK417

Photo dead bird in truck loading area near
OK 417 UAder ^closure.

Photo broken auto battery W-E
hfftOf 20 FT u)
Photo close up broken auto battery
A?pt&* ^FT V pitfW hidl warehouse
foundation
Photo SW-NE 30 FT (Approx) from
asphalt pile. Material was observed
deposit! foj c^u^p fruck &i-*tf>ro*t \t^2£^|
GPS)^ hoxhof\ cfllWcha) ^ i*M<x- $\VL fl&?H0LF..Pit£

Site LiX^r.^ OK/*(S rec^jwJ cw4 couSc) Aof"
flrw) sg^V-afcW s^.-^pl^. IOCAKO*V Ongfivd svb£_.%-
^koOA 0*\ <A30ft ^QA (YVOf•
SvTe ua^ATfGAj o^^fiS r*cj»Mei ^ocl c^g^ii.Doi:
Io<^-^ &^vKWe. 5a:/^p(Q. I.OCcCfloo *_ Qfi4r1=\| .SLt§L
as shown on work plan map.

07/17/02

ORE KNOB J/6/67

Weather: Partly cloudy Wind: W 5-10 mph gusting

3Mft£. ££&M /ftf$ »rfy/h

flk/# /Satfl S££t> Jo^jfe Tern £&*kr

Lofh/) Cart. &&& SoMpltf

Ralph Howard EPA Rel Sampler

£c&ff fYkrh* Epfr&i.. SAmpfer

Tony Able EPA Rel sampler

&rt L&#fion &K08

Sample Number OK408-SL-001

Sample Time 0840

lit lifcMs, Vfcy *\|QC,. KB, CAJ

Photo NW-SE Approx 15 FT from sample

fhh A> 'til -S£ A^pffof JS'rT/avn 5*r*fte..

SA>N?tiL LOCATION O&H-m

Sample Number OK418-SL-001

Sample time 0915

Tot Metals, SVOC, PCB

C~re.8£oh€\ oJor to ftwp/e

Photo OK418 SE-NW Approx 12FT

fAofc 0M(3 S/£ ~M^ Afffz* 35'rC

Td'AfAUc i&fy &tfrfhho, £&Mt at Of JO,

Asbestos sheeting observed approx. 30FT

notB\ Or AAA. 0/&bin*.. SfS (octJ-eJ,

PAoio fckezto* bei?o$ &UACJ £A)£ AdfPbK £D'rf

.bis KAQ& 7/f5/0?

tfi&xfbr! P&rfiy Scurfy Htrnd <}U&h*\f. fv /S~/y>A

From NW

SAMPLE LOCATION OK414

SCkAifle thrilxr 0'K^/¥"$L-'CQ1 f OK¥/^'Scrotii$

Ò^taxhe, ¯ fOo^c collected

SaA^f? 71&\& 09SO

Photo OK414 N-S Approx 15 FT from sample

Photo OK414 N-S Approx ~~40~~ 30 FT from sample

Lotfv/i Car/' ^fh-jAeJ ptM^^cxj cuOMrfd ?A

right hand middle finger from rusty nail. No

/jitucelt&fa femhflc4j~.0/t/£/i.

febe&'t&i hw/J^c (kfrj-eyiQ, I dep/^is obsesozrJ &A

sotKfh. srch of f/ūcft Loorff'tę fkof/t/y- id%id&

Flotation Plant Foundation footprint

0tctv A$jLa*h^ hiMfd'if /i&ferwf d'dztis 54/~//£*

A^rox fO fT-

S**WL£. L6wno>) O^^SD

SAMPLE NUMBER OK450-WA-001

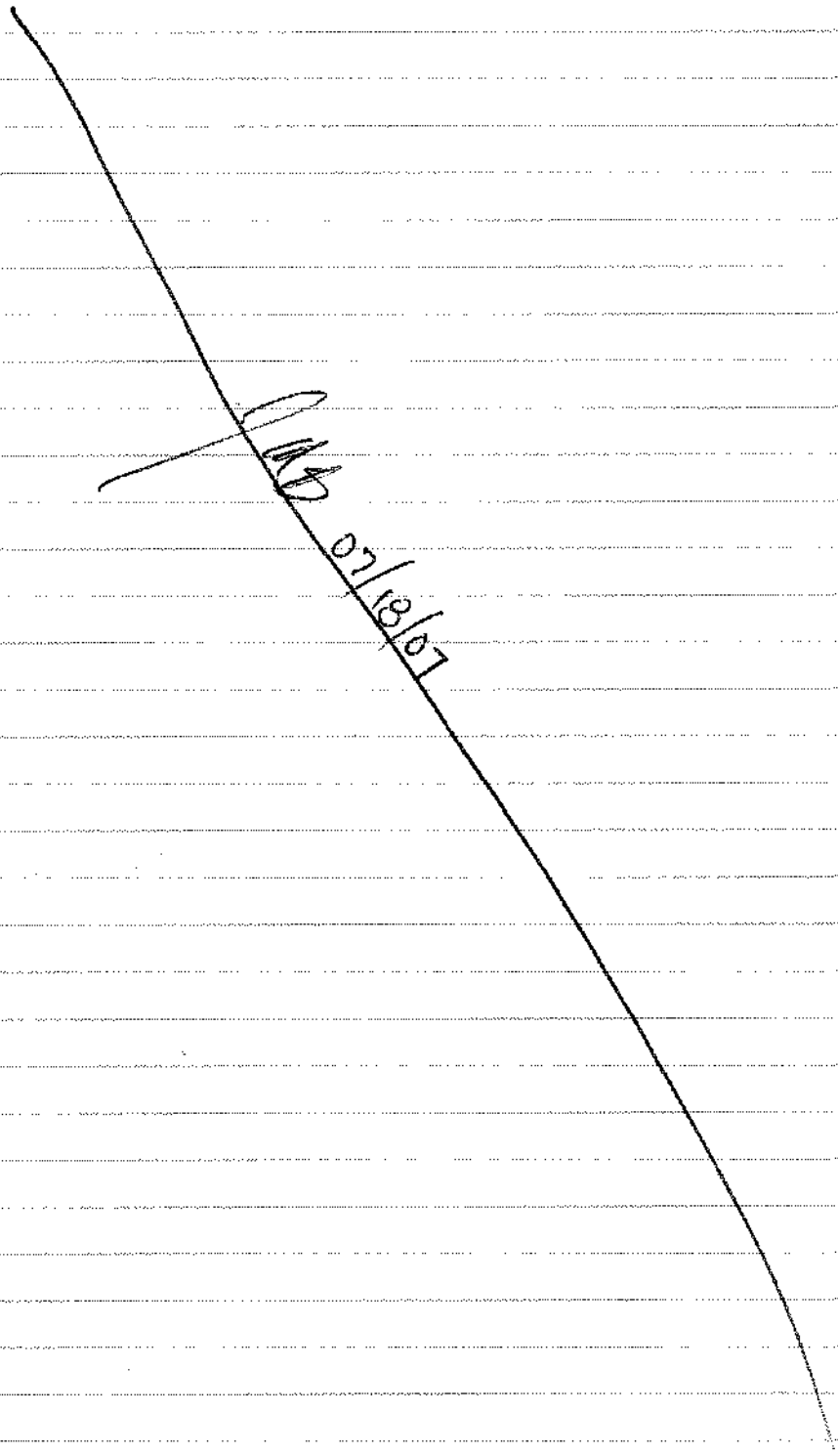
Tot Metals, paste pH, AEA

Sh(*?L£ 71MB 7//0

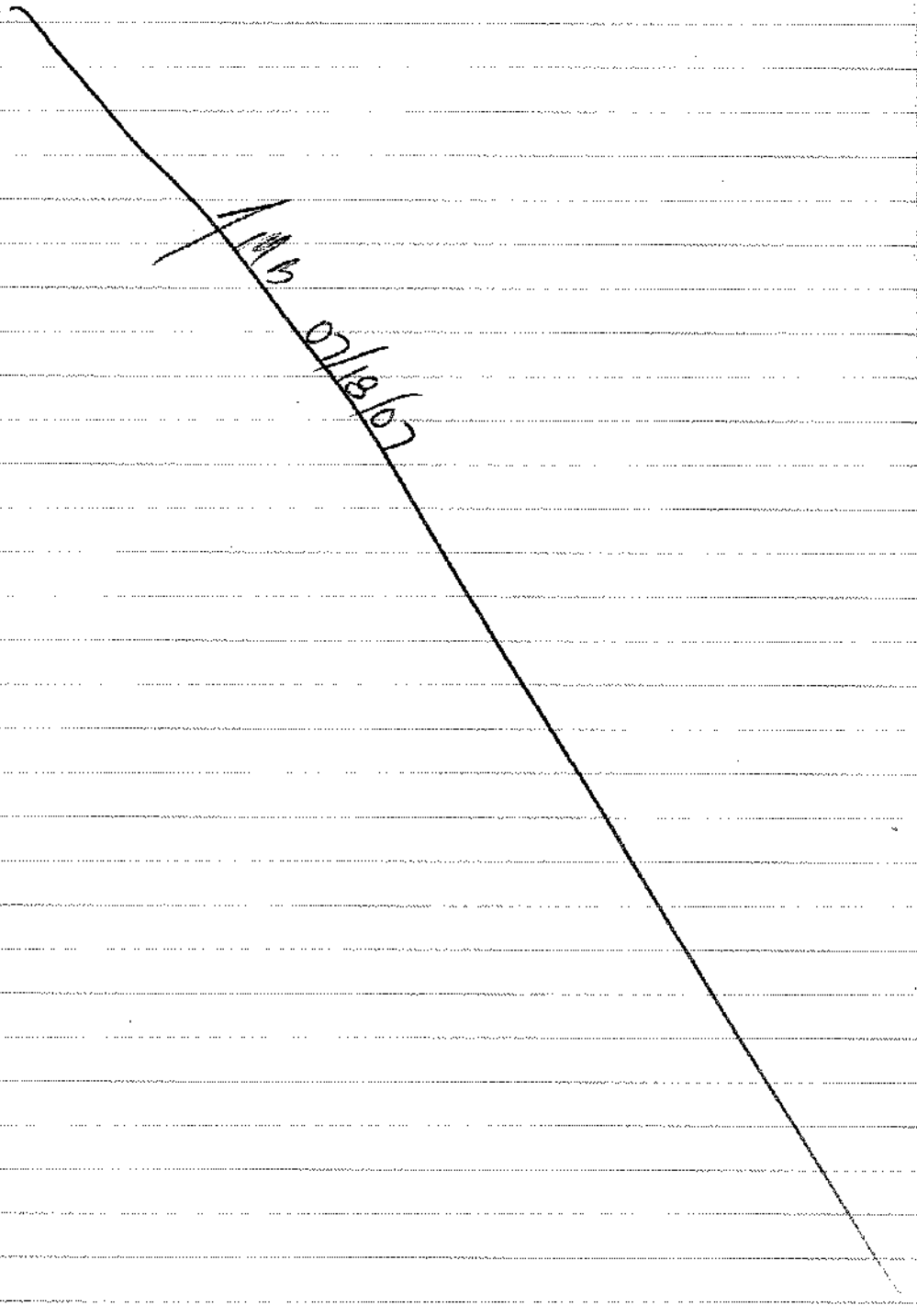
fkoio t^C~£vJ Apfioi 7 FT /n>/A 3^fi~c

Photo NE-SW Approx 30 FT from sample

07/18/07



07/18/07



ORE KNOB 07/18/07
Weather (hrH.y cloudy ii)mJ SuJ ju>h',y id -limph

SAMPLE LOCATION OK413
Sample Number OK413-SL-001
Sample Time 1135
fhofo S-AJ kr&ro* 10 fr fro* *&mple
Photo ..fftcj/w .../WA]£, App/o * 36" /^r .£h,vn sa^/>'t
Tot Metals, SVOC, PCB

SAMPLE LOCATION OK419
Sample Number OK419-SL-001
<%Wfft (T/rt (LIP
foM/neMk, \fcie$_f$Si/3C$_f$ /CS$_f$ CA)
Wind gusting 20-25 mph Partly cloudy
PAoft) £-\AJ Appro?- iL^f fitw -^XAP/C
Photo E-W Approx 35 FT from sample

SAMPLE LOCATION OK416
Sample Number OK416-SL-001
Sample Time 1245
rof-/flehl*, .VDC, Sitae, pcg$_f$ c/J
Photo SE-NW Approx 12 FT from sample
Photo SE-NW Approx 30 FT from sample

7/18/07

ORE KNOB y/(e/o?
Weather: Clear to partly clotty W/AJ
5-10 mph W

S*#\/=7J£. L^QCA-Tloto OK #$$(.....
Sample Number OK454-WA-001
sample Time 1530
D *-' */6 XA> £Ly.flQ'yxTQfy hole fA^ccJ-eJ
i?Ati^\ce of M^hpl-e. l&fets of story tiy
oz~\i\z£d or** (W/Ayx*Dmr^-e:,,..{?fou//i fa
A-p^/ox /8 MJ / I iqkt qMy fo&t . f ft .;; 2,2. /AJ ;
llfi/ittfrt£/i VL-TM iO'r. UssMH &&&&& <fi
7/18/07 24 to 36 IN; dark gray 36 to 42 IN;
i^£^l^. H'L-^ £?kcA/ £rcw/) y/gy.....££>#8 in
kLl.d&P$\) tJ&hM^e';
Photo \J~<£ Appray ~7 £T ft$x_so/^/e
Photo W-E Approx 30 FT from sample
Tot fK&T&th $_f$ f#$ht pf-t$_r$ _fy£A

SAMPLE LOCATION OK423
5 <vyt . A W k 0 K<¥^ - £U "00 (
5a#w,f> fe....r^sne /&4>? O -i£, tJ
Tot Metals, SVOC, PCB, paste pH, ABA
Native soil approx 18-20 IN depth.
Photo \jj.-j£. Apf>lQFAQ-.fy UX>/r\ ^A^IA/C.
fhofo S-M Approx 18 FT from sample
(.ThHtn

7/18/07

IL? or r6

ORE KNOB l/f&o?

Weather f 0\}£tQA5:t Wind Q 5 Mrfih ygjiodti*

SAMPLE £-CCPtTi6 OK 453

£mp{& ^umher... QK*fSZ- '^ ' °0f

3a^ph ftfNL 12(5

Tot Metals, paste plt, ABA

Au^vW..£Ap(o/^h>>v i>Q.le to ^48 IN

G — Qs t(Ni . ^ d ! o ^ ^ L M ^ . . c

(P ~(& ibS.... pz&h&k ...cr&MC

..lZ,'i& M "/el(o^iisk.G.C£*q•£

/<&: M(...4 usil&iush Ot<u\q 6

24-30 IN same

3:0:„3feM YeifoeOfsfv uhfA ^r*A/oK R<tchS

B^:AL'M ^clfftiJisk {MiH\ iwsQ/z £\rc^\f

tfL'^B id .qc&yQkvuhfe

48+ IN medium brown

Photo N-S Approx 10 FT from exploratory cuttings shallowest on right to deepest on left

Pk)\&...sh).-£.Appw?L (0 .fir..../W-&e/^p/e

pKoft) Ui " e Aps?AX '30 r./". .frcten e&npiG.

7/6/07

it or (b

OR^ £AW/ 7/(8/67.

Weather: Overcast Wind 0-5 variable

^AtAB^ Umrf#J 0K¥5z~

_4<te \j)k $u#&er OK 452.-. OJA -QQ /

Sample Time 1745

.&W/l> d&ftf\ 30 I/J.

0-9 IN Yellowish orange

?- 3<? //J hfecK

...££* "20/AJ /notsh/rc LA ms\f&

Photo Approx 12 FT from sample N-S

Photo Approx 3 FT from soil cuttings N-S

Photo N-S Approx 30 FT from sample

£A*^P<U£.i-QGvTTo*) Qfr&S.L. .

Sample Number OK451-WA-001

Sample H/y^L IQZ^

Tot Metals, paste plt ABA

0-12 IN boring

Photo...S -/(J AffAs JL^r f'r&n ^a^pi'e

Pl'\ofv SrAJ A'pfi^fffl. Z6&- ff&n sfl-sy.ple

7/18/07

ORE KNOB 7/19/07
Weather Clear Wind 0-5 E ~ UJ.

SAMPLE TEAM
Mark Bean Sample Team Leader
U Otto^-Carf 5 ar^pier
Ralph tfouterd $an\j}t/

$ftrrsPL£L...LOC#riQA O^IS
Sample Number OK415-SL-001
0835 Sample Time
Tot Metals, VOC, SVOC, PCB, CN, paste
Photcb. J^~:5* Appr oy 10 rr fro** sample
Photo NE-SW Approx 20 FT from sample

SAMPLE LOCATION OK422
Sc^i&Amfer OK^il -5^00/..
Sample fiat, 0925'
Tot. Metals, SVOC, PCB, CN
Photo N-S Approx 10 FT from sample
(3taK> |0~£ Appro* 3&f7 fy&*\ ?<&nfl&.

SAMPLE LOCATION OK424
Sample Numbar £)K424 - su-001
Sample Time 1015
Tot. Metals, SVOC, PCB, CN, paste plt, AEA
Weather Partly-mostly cloudy
Wind 5-10 mph NW
Photo SE-NW Approx 10 FT from sample
Photo SE-NW Approx 30 FT from sample

i-Pkotor^ "L Crest- 4jV> Wc|CH0^-ot-r«& OK406

ORE KNOB 7/19/07

W'&ttfwr &&stfy &focsJf MAC) 6~'/dmfh Ul..r£

'SAAP/it 'weft-Til2N OK407
Sample Number OK407-SL-001
Suae, r^A Ate^/j, rcs^ oJ
Sample Time 1300
Photo AJ-6 Approx 10 FT from sample
PfS0.rO 5uj"A)^ APP/oy 2£?JPT. f^e^ *?&&&/&

Panorama 6 photos N-E-S along stump piles above the wetland

SAMPLE LOCATION OK420 appears to have been buried by bulldozed soil
d^f[1]^ (K)...sk^>s <xhacW !Q^.tS..fT &0&i
the creek run. Sample not collected.
fKofe 5~M -Approx. 20 FT Jro^ ^KVAAP d&krjf.
in creek run
Photo N-S creek ~~emerging~~ blocked 7/19/07 from debris
Pl:^b W-e....crtcK? ~~Emerging~~ blocked 7/19/07 from debris
Photo N-£ approx 60 FT from ~~emergence~~ blockage 2nd 7/19/07
of creek
Photo N-S approx 15 FT from ~~emergence~~ blockage 2nd 7/19/07
of.. Creek

7/19/07

it or /b

ORE KNOB 7/19/07
Weather: Overcast Wind: Um't

SAMPLE LOOYVQO OK4TJ
sample Number OK421-SL-001
sample time 1445
Tot Metals, SVOC, PCB, CN
Photo W E-W Approx 6 FT fro/A. ?&*mple

Photo NE-SW Approx 25 FT from sample

SAMPLE LOCATION OK406
Sample Number OK406-SL-001
Sample Time 1715
Tot. Metals, SVOC, PCB, CN
Photo S-N Approx 10 FT from sample
Photo SU)...tlO£ App/dX 36 r f (HAS^N?/^

SAMPLE LOCA rfcW .D.1L9QC*
Sample Number OK006-DW-001
Parameters
Temp 15.28 C°
5P <W *?5f^/c^
pH 5.90
fufh Z5<5 MBA
ORP (Z7 ft/
DO Z*70
Eureka sonde #45
36.401241 N 81.333752 W
2899 ..PL £jWfeU.
Photo OK006-DW-001 Residential well looxhcv-t

Doi 16

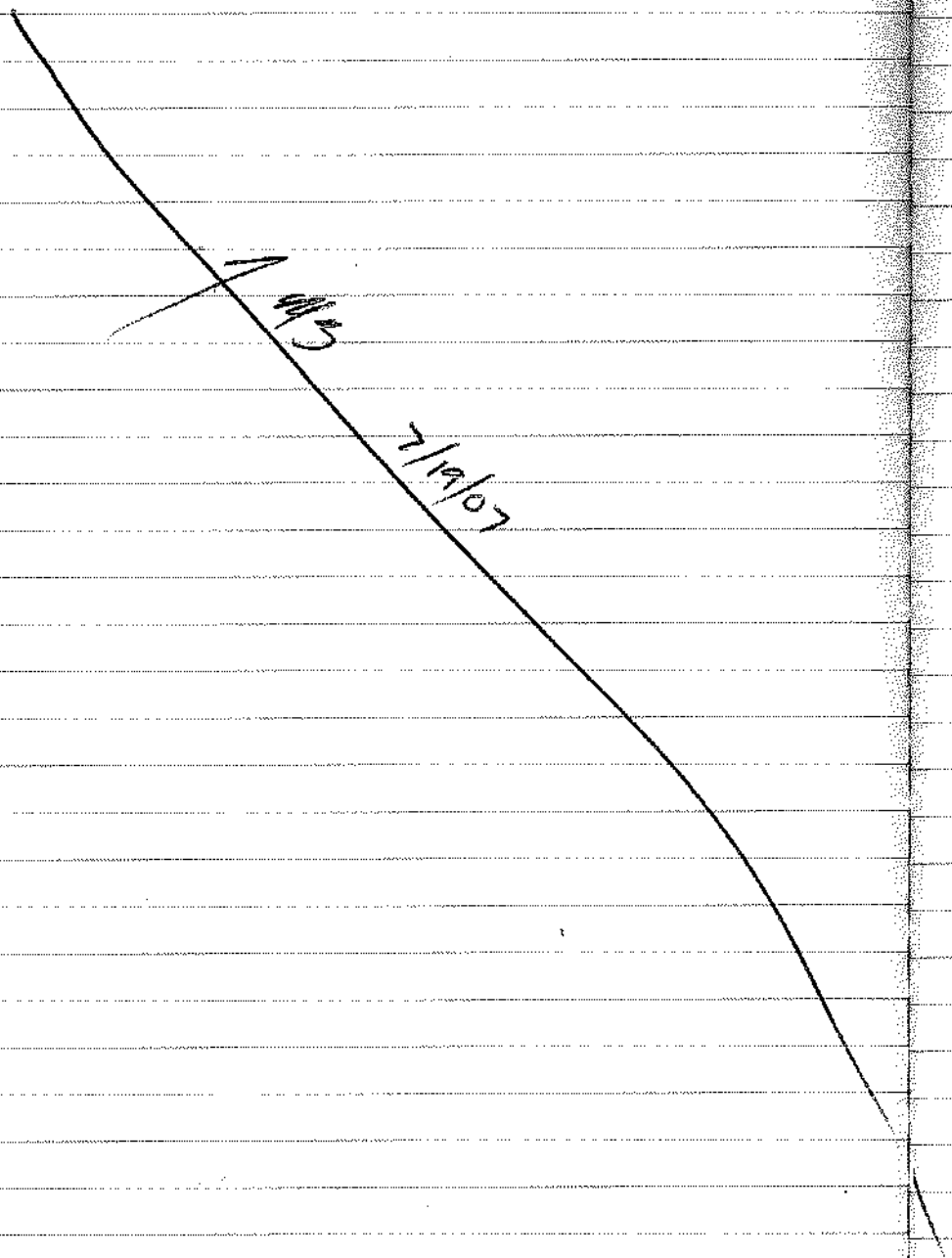
ORE KNOD 7/19/07
Wea$xct P#rif.y cloudy yJa\J_(?-&~s'if6-u/

SAMPLE LOCATION OK007
Sample Number OK007-DW-001
Sample Time 1820

Sample parameters
Temp 13.59 °C
Sp Cond ~~[illegible]~~ µS/cm 379
DO 8*5& £Aq/l
pH 6.13
Turb 1397 NTU 35.0
DR? t84- ^V
Hon^.OiO/ier h^ i^w-^ WciUioasi/ic, c^/ .a/\l
interior insulation from well housing. Home owner
zMhl fi^h ETfifJiV/i' mhnctd tos&fkcc frkc&e- -
items.
3k..*ozt#6 fa BLsszM (2~io
2941 FT Elev
EoKble iwfifcer QQtylcs. M&c <^lUd^Lkf
Jkflto kr LshA$t\ &Pf\ Sa/hpfc fecipd^Jer
Alison Bfmh <L£$••....$«nffec
!.?l4ttg&in.... $&b-sailer
Ralph Howard EPA sampler

7/19/07

END OF LOGBOOK



LP

1 In) 01 &+.MU } hit

KDJ DAT SESD

MD ^r

.Kr J o U ^ Ek/f /^*feL

Logbook maintained by Douglas Jager

OK026-SD-001 Metals (total) 3 8 .^J*TJ

11:45 PCB

SVOC

OK026 location found at imported GPS point A ary

d*V/~. #z£ r^ 4^ J

OK026-SD-001 is located in center of South fork of the new river.

GPS → Trimbal GeoXT N 36°26'14.118"

SESD ID 4336 B26992 W 81°20'45.994"

0-2-OK + GPS file

OK026-4i>~eQ / ^ / 5 3 8 ye jars

12:10 PCB

SVOC

OK026-SD-002 is located on right side (facing down stream) of south fork of the new river.

KDJ 7/17/07 KDJ 7/17/07

~~OK026~~ OK026-SW-003 Metals (~~total~~) dissolved 500ml pp S

1225 Metals (~~filtered~~) total 2

SVOC 2 amber (1L)

location right side of south fork Classical 1 Gal

of the new river 3 meters from bank

L*-h.U\ *L^f4v /*- J, %di £*>~ ph collected

at 1/2 total depth (6 inches)

K. Douglas Jager

(2) Ore Knob, NC

7/17/07 Douglas Jager

OK026-SW-001 Metals (disolved) 2 500ml poly
12:32 Metals (total)

ste&L. ^liAXfO-

U& itLA s^A 5?k Ck^^fs I fa I ..&»»

A ^ n**- dv-^i. Tcii[1] <Wk •WC? /** ches Sample collected at ½ total depth (^%l<^h^>\ J ; •^-Jfftjyfetf from bank.

OK02y~$M/~Ot>3. A-ef^U feW) 2 500ml poly
Metals (total)
5 i ^ 7^1)L J,nbers
Classicals 1 Gal. poly

Middle of south fork of the new river. Total depth ~2' and sample collected at ½ total depth (1 foot)

KDJ 7/17/07

Filtered ~~or~~ (aka Disolved) metals were all collected in 1L poly (unpreserved) and then pumped with parasitic pump to 500ml preserved polys. Appox. 2 filter volumes were allowed to purge uncollected through filter.

KDJ 7/17/07

Heavy rain started immediately ~~flow~~ following sampling event.

[signature]

ur< \fobbj W[1]- (3)

7/17/07 Douglas Jager

OK026-SW-001 Field Parameters

~~pH~~ KDJ 7/17/07

pH	Cfp*&	Temp	ORP	DO	NTU
8.gs-..	a- >5	avis^__-5o,v		9.37 mg/L	~/3

OK026-SW-002

pH	Cond	Temp	ORP	DO	NTU
8.68	68	23.96	57mV	9.21	-0.7

OK026-SW-003

ORP KDJ 7/17/07

pH	Cond	Temp	~~ORP~~	DO	NTU
±inr	tin	zvs-i-	80mv	9.01	0.1

[signature]

'6 Ore Knob, NC

7/17/07 Douglas Jager

OK020-SD-001 1545

....L^I^I 4- U^H***M. . . . . .

just upstream of peak creek confluence

D*

Metals 3 8oz jars

tcB

SVDC

GPS → OK020Kdj → entry point

N36°25'56.080"

W81°20'52.670"

KDJ 7/17/07

~~OK02~~

OK202-SL-001 Metals H 8oz- i&sj

fcs

Floodplain Soil SVOC

1655 ABA + other

OK2&3-SL-002 Metals 4 8oz jars

PCB

Floodpl... SVOC

ABA + other

1713

GPS → OK202SL-Kdj (Entry point to little peak, before confluence into big peak creek)

H3Ci°25'42.512"

W81°20'35.167"

(Edge of Road)

Ke Douglas Jager

UE< Knob, NC

vjnj:07 Douglas Jager

5

OK y./-SL-TO/ Metals 4 8oz jar

n ood plain Soil PCB

n 48 SVOC

ABA, + other

GPS → OK201SL-Kif ... }L^^%J^7{rL

sample location W81°19'22.896"

OK200-SL-001 Metals 8oz jar

Floodplain Soil PCB

1805 SVOC

ABA + other

GPS → OK200-Kdj N36°25'12.316"

sa i&-$ke Icttfa&a W81°19'22.466"

KDJ 7/17/07

Only ~~2~~ 8oz jars required for Soil/Sediment analyses for PCB + SVOC. Extra sample containers (8oz jar) discarded.

Ke Douglas Jager

(6)

Blank

K. Dagl Jr

(7)

l[l%)n Or^e fiSfsJt

KDJ Dy*d;*"5 Jager SESD EPA
fcvfl /k?fk Saku&t B+V

8:45 Performance Test of Turbidity meter
SB-5D j^> .'^sD^ffUtro 7630
HACH

Actual	Response
564	562
45.7	45.8
4.2	**4a7**

6/S-FT^*^b^ ^-<> M~
SESD ID 4336B26992

0KQ^-<>i^-t2>!
0925

Metal (total)
Metal (dissolved) 2 500ml poly
SVOC 2 1L Amber
Classicals 1 Gal poly

GPS → N36°24'40.454"
W81°20'22.323"

Feild Parameters for 0K022-SW-001
Eureka

ftj	LrrÁ	l-L~]0	DO	ORP	NTU
l^	2^5	j 8fit	%t£	?$[ty	IS

HACH → 14.7

K. Dagl is? Jager

(8)

7/18/07 Or-e Kyti>b, NC

Douglas Jager

OK022-SD-001 Metals
9:45 Svoc 2 8oz jars
PCB 0

OK023-iv--001 Metals (total)
1025 Metals (disolved) 2 5^ i- /?^
SVOC 2 1L Ambers
Classicals 1 Gal. poly

GPS'-*•- '.A/'3k>f'3i>,<m*'
___uvao'/s',^"

Field Parameters

pH	Cond	Temp	DO	ORP	NTU	
4.23	21 y	ndrt	i&i	i-99 mv	0.8	Eureka

OK023-SD-001 Metals 2 8oz jars
1035 SVOC
PCB

Stations OK022 & OK023 are located off Low Gap Road

K. Douglas Jager

(9)

ikjoi Orr UU, JL Dettx/tj V^W

OK009 5sep OVT- T? > lings pile

GPS vv&X.&isT"
W 81° 19' 29.433"

Field Parameters (Et-tr^^)

pH	Cond	Temp	DO	ORP	NTU
3.78	8520 µ	*_Ac.	£2/.£.	3^7	/?,?

OK009-5w~&>I Metals (total) 2 500mL poly
1230 Metals (disolved)
CUd^ 3~ &.lf*(y

OVxm^y-po/ SJ^;1^JI
1258
AM^m ^mL poly
Metal (disolved) 2 9
Classicals 1 Gal poly

GPS → N 36° 24' 36.895"
n. V.m'Hl&VKj'....

F/^\ A \Y/3f^^J^O \X.ur-eka) pH paper = 6 9

pH	Cond	Temp	DO	ORP	NTU
9.05	5676 µS	15.62	2.44	-44 mV	5.1

K. Douglas Jager

(10) III"/-1

Ore Knob, NC Douglas Jager

tailings dam seep GPS N 36°24'37.045"
(Near/at location OK011) W 81°19'27.445"

1315

Field Parameters (Eureka)

pH	Cond	Temp	DO	ORP	NTU
7.26	48				

^5 lifL^f /IKK /^J

Eureka 4 ^J #JIA*J** +!*$f*&f y will check
£>;& (Mbration and then decided (£rt-7 &&&*—plug
locat 4?A ^>K^WT_+*L/, ..f^i.w5.j^-1'n Qj&sfce**
•)-j*lA ^WA^~&t^J<>^ <%i'&B~-3u5f^*ff (OK011 >)

.L&**yQstif'&4. <~^^e[t< t-*5«?c/ id's/ J-??1^ J-e^^^-^>

Eureka used by Striggow team. PH probe is reading 1 st pH higher than Striggow team.
KDJ 7//ff>7^

pH & ORP (esp. ORP) is suspect fo.* !!*t!*ndings made with Eureka SESD ID on 7/18/07. Conductivity measurements agreed well.

K. Douglas Jager

7//^ ^ W ^ //A

nhob, Douglas Jager

OK011 Base of tailings pile/dam, O^-hA

Field Parameters (£UK^KA')

	pH	Cond	Temp	DO	ORP	NTU
①	3.43	894 µS	21.88°C	3.52 mg/L	436 mV	9.6
②	3.61	1348 µS	21.63°C	4.93 mg/L	418 mV	11.1

6/3^/^/3.7,^''
v^g/°./?'^7?y^..

OK011-SW-001 Metals (total)
1557 Metals (dissolved) 2 500ml poly
Classicals 1 Gal poly
KDJ 7/18/07

Spring like flow from ~~pole~~ pool; 5 ft by 2½ ft
3/^01 has clear water standing on rolling/turb sediment
Sediment offered h-o r+ sistance to a depth of 6 ft.

OK008-SW-001 Metals (total)
1648 l^£ ft solved) 2 500ml poly
Classicals 1 Gal poly 7-

GPS → N 36°24' 36.696"
W 81°19' 21.399"

K. Douglas Jager

(12) Ovf 'A^ob

lJul01 lXL^^

OK007-SU/-0D 1
1740

Metals (total)
Metals (disolved) 2 500ml polys
Classicals 1 Gal poly

p£ld Pty/AwluS (<L£?yrl'd)

pH	6 J	T^-P	lo	OK?	NTU
4.52	65µS	26.34°C	5.38 mg/L	424mV	~~200~~ 196.9

GPS→ N 36°24'30.470"
W 81°19'31.098"

OK006-SW-001
1818

Metals
Metals
Classicals

GPS→ 36°24'27.667"
81°19'27.406"

pH	^-&>^<J	T	p	DO	ORP	NTU
3.07	863µS	26.56		5.42	491	15^/

Ke Dgh Jag

Ore Knob, NC

(13)

ljlp-f

KDJ Douglas Jager
MJ Mike Johnsen

OK001-SW-001
0910

Metals (total)
Metals (disolved) 2 500ml poly
Classicals 1 Gal poly

GPS LkiSjpsDxj) .w Bsun

Eureka Unit 47
GPS could not get positional lock due to tree
CtflrZJl, Will lJJ>f &P&. leCAt'ar*. d&-^^ $/"eam.

Field Parameters

fH	b^J>	*u^$	DO	ORP	NTU
4.41	433µS	17.0°C	7.38 mg/L	254mV	0.2

OK001-SD-001
0925

Metals
SVOC
> f^tf*.KS-

GPS→ N 36°24'19.570"
W 81°19'35.839"
Sampling location (OK001) is ~25 meters upstream from this set location
K/XT7//f/>7

Ke Dgh Jag

u

Ore Knob, NC
7/19/07

Don I T

V J ^cT _J

^M^J H

• T:,p^ K3\- ^-^

Douglas Jay

• Samples Collected both by Douglas Jay & Mike Johnsen

• All Sample/Geologic Description Maintained by Mike Johnsen in spiral bound logbook #1 (Book 1)

• Additional logbook maintained by Mike Johnsen in addition to "Book 1". Yellow, hard back, Not Numbered or Labeled. Some data resides in this personal logbook.

Ore Knob, NC
7/19/07

(15)

IjeM'fv')" >J*-**r#

OK002
<&f5 N 36° 24' 22.726"
W 81° 19' 30.061"

OK002-SW-001
1025
Metals (total)
Metals (disolved) 2 500ml poly
Classicals 1 Gal poly

Field Parameters

pH	Cond	Temp	DO	ORP	NTU
5.49	237µS	lG3fc	5%3f	/i&u	3,^

OK002-SD-001
/P3f
Metals 2 8oz jars
SVOC
KDJ ~~(total + di.S»A-«>'± meta.IE)~~
Jil2t7

OK005-SW001
1120
Metals (total)
Metals (disolved) 2 500ml poly
Classicals 1 Gal poly

£*/J Ĥ*~Xo ^.....s 1

pH	Cond	Temp	DO	ORP	NTU
.&o	^	av^	sari	Wu.1*	ra

GPS -*.N 3LJZ' 26.905"
W 81° 19' 20.842"

(1u UK? jA^b) r^

ijhjoi

Douglas J>l€t

OK013 GPS N36°24'41.917"
W81°19'30.242"

fhl'i PmUK. (f^MA, .. 0foDi-<£-&>! Mrt*k I.%K 'VOLS

p0 6~J T^p DO oKf HTU. I33D $to£->, ^^

In 20^ ztifrc. $,)<& P%^..^5~hs4~ m ^H^

2.76 2086µS 24.25°C 5.74 414mV 21.2 (1305pH)

OK013-SW-001 Metals (total) Metals (dissolved) 2 500ml poly
1305 Classical 1 1gal poly

OK013-SW-001D Metals (total) Metals (Dissolved) 2 500ml poly
~~1305~~ KDJ 7/19/07
1310

a^icJ ...3-6*1 ply r&K2t>7-si -coib

OK013-SW-001D ^4 Duplicate for OK013-SW-001

OK013-SD-001 Metals 2 8oz jar
SVOC
~~OK~~ KDJ 7/19/07
I3*t>

OK013-SD-001D Metals f^P 2 &?J*>
1325 SVOC

OKe>]2r5b-(&D is Duplicate for OK013-SD-001

K. Douglas

QY< lA^.JvC
7/19/07

D*j H ^ajr¥ —iip

~~OK13~~ KDJ 7/19/07
~~OK013-SL-001~~ KDJ 7/19/07

Flood plain Soils

paste pH → 2 8oz jar
Total jars → 4 8oz jar

GPS → N36°24'42.31f
W81°19'30.396"

Metals SVoC KB → 2 8oz jars £*t^?

1335

fulfil^—. 5,;/5

paste pH → 2 8oz jars
Total jars → 4 8oz jars

OK207-SL-001D is Duplicate for OK207-SL-001

K. Douglas

(18) Ore Knob, NC

7/19/*1)JQ>5 ^£*«ri 5

OK012

GPS-+M&2H' 37 147"
W 8111'27^0^

OK012-SW-001 Metals (total)
1540 Metals (dissolved) 9' 5TH wl pA 1
LfeS't*h I Gal. poly

P^JT/&*^ pP~€u'&*£>K/ GPS ?d OJ>i
^ ' / ! V ^ cLX- i^e£n
only field parameters were previously collected at fj t«\k up dam seep"

OK012 Field Parameters
pM Umvci T&*^0 DO ORP NTU
194 483^ /u^2 j^ /y^ 'V^I^^/Il'J^cZ^r^fy^sA^

Left Sampling area to assist in processing samples at command post.

K. Daylor

Ore Knob, NC (19)

7/19/07 Douglas T 5 W f f 7

—i-litop'.jpr* ' fc> Leaving tailings dam at ·o 4 ^ j W/ ^ observed Jennifer Wendell (RPM) and student intern walking up ore Knob creek to tailings dam.

A* beginning of study. I informed Jennifer Wendell 4^J^^^^AA* CXHA sfefy i#**i ing (40 hr Hazwoper + 8 hr refreshers) and being in a medical monitoring V* the student intern was not allowed on the site, I informed Jennifer that the intern could visit residential sampling for the same study.

Later I heard "from other people" Nike Crowe & others on site that I IL>VL& 0V~€A [illegible] I and was kept away from the lowest pH areas. Jennifer never informed me of this decision made by SESD ty*-fr**agement.

After speaking with the student intern, I learned that they had walked up from where ore Knob creek intersects a road up to the tailings dam. ~~The to~~ KDT 7/19/07

...i\j.Lu«ik t&k about 1 hour and was in one of the most contaminated areas of the site.

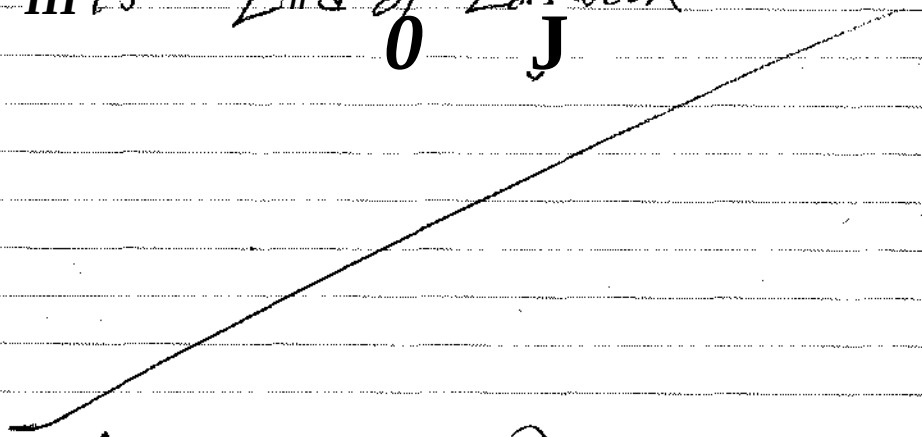
K. Daylor

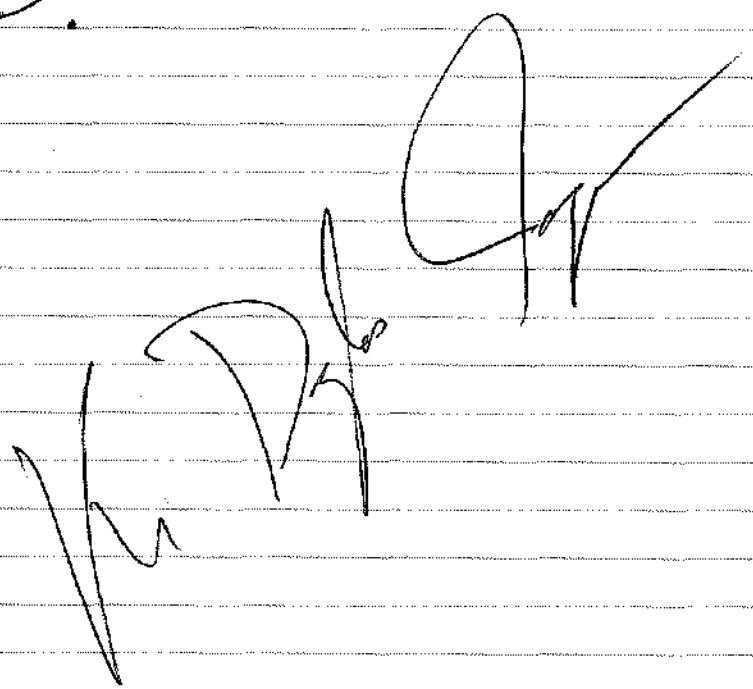
(20) Ore Knob, NC
7/19/07

jlA~c/~S

HI 15 End of Logbook

0 J





Logbook 5

OfVi/w^ |vvoJM^u-o

V^tI .oA Re sin^4

;6. €5, 9esp

980 College Station Rd

Athens, GA 30605

706 355-8608

07-0507

%

CAU&RflTiOtJs p£RB£.HQO BY j//«/p.7

J)M Fdf-T$®^ } Hi KB CMrtg ...Q&JQ.

Qf

ZIOO P TOLBiDiMereg.

NGfTcftL. DftTB $fafa*

	READ (NTU)
DI WATER	0.11
SESD NTU STD	1000
51.4 NTU STD	51.9

Orion CrnM^iWht Mckr IIP $£SL>J& WM/GT

SESD ID 003570 ADJUSTED C = 0.717

&AJD *tl>.% UTXUiJWK	READ	ADJUSTED
EX: 11/27/07	42.4	43.1

fy>Nt> *6~ UtTJt niftovc 4*f3 H*45

m:_nM^

Orion .p$iMtfo/;_ 230* SELF CHECK -

SESD ID 003264

	ftmb	Corrected to
pi"**	i-if	7.00
LOT# 2705511 EXP 5/09		
pMot	4.08	9.01
LOT# 2703205 EXP 2/09		
ptti*	Slope	1(70.1
LOT# 2703350 EXP 9/09		

Cal check STD 7 Reads 7,e>I

OK-002-DW-001 ②

0'O|^>

11 i S/d 7

Allison Grabb
Jennifer Wendel
Jim Bateson
Sharon Matthews

-V6- Vuc,^.....Y&1 xAo^WsLfi^^ ____

6pi^sp\ A>^ &oe» -pe^

Started purging @ 0911

OK-002-~~DW~~ DW-001 SEM 7/18/07

OK-002-~~PW~~ DW-001 D (duplicate)

VCrN^-e_____0<\|8. . . . . .0^30 .....

pH 5.35 @ 14.9°C 5.44 @ 14.4°C

4c. ^| u$[^) A^o .....

turb 2.16 NTU 1.11

T° 13.3°C 14.7

Collected directly into sample containers

LO^Xft.OircA- /*^ V*% (--£_ . . . . . .

2 cubitainers classicals + dup

<2 500 ml total metals + dup

3 <40vA VOC! S- rw...Aa^ .....

*-\ .A VYCr ^vvV^w s. . . . . .5V/CCS A A^

collected by Sharon, Allison & Jennifer

36°24' 08.624" N 81° 19' 55.274" W 909.67M

STEM

fx& *f/t ved

OK - 003 J/-\J^ \^y\^/ 1 (3)

7/18/07

Ronny Bare's 7/18/07 pump house

OK - 003 - DW - 001

collected @ pump house from pipe sticking out of south of pump house

Time 1055

ec 15- C.\H 8°C µS(cfr/--)

pH 5.48 @ 13.3°C

Turb 6.88

p H&'C

Collected by Jennifer, Allison, Jim + Sharon

1 cubitainer for classicals
3 40 ml VOC's for VOC's pre-pres.
1 500 ml for total metals pre-pres.
2 1 liter amber SVOC's

collected directly into containers @ 1055

36° 24' 02.969" N 81° 19' 38.233" W

911.47 M

OK-004-DW-001
MS/MSD
135 Oreknob Mine Rd
Gene Lewis
OK 004-DW-001

(4)
7/18/07

^V^VS^v^l^P I52-P

Time	pH	SC	T°	turb
\53o	632,	[03>5JU	53	<9.6?(/

JOT*"-

^ cotWcWl wvsj msT) ^^~\U^

4 1 liter amber SVOC's
lp ^o^\ \r\oXs,.....V.oe's ^;p^
2 500ml total metals
^ CA/\>I \tU,^wS ...cWsSi'cJls.....

collected @ 1340 at pump
Vl<A3">L ^Vvo'V ~^>^4.....J^-n^^Vw
Sharm directly into containers

3° ^' oi.iofAi &rir£^Gi^it0

903.04M

y^^u^ v SEM 7/18/07

Bare 7/18/07

Kenneth ~~Baar~~ 201 Ore knob Mine Rd

OK 005. ^X>Vs3 r..OOl

Le^ C ^ — "iQ -*J~>f-;XA^x; @ 1410

IIX>~*L	pH	µS/cm SC	NTU turb	T a
1413	6.46	107	4.06	17.9

collected sample @ 1415 at spigot from under carport by Jennifer + Sharon

1	cubitainer	Classicals	
1	500 ml	metals	pre-pres.
2	1 literamber	SVOC's	
3	40 ml vials	VOC's	pre-pres

36°24'01.608" N 81°11'S 7.833" W

911.24 M

s

Roan Creek Church (6)

7/18/07

OK-001-DW-001

Started purging @ at 1440 from spigot

0J^ vVsV-X <y,ckjL 31 . fco\oV«...\>f.iftfj--..&305r.£».

Time pH sc turb T°

4 W5 ^H i l T ^3\ JirrS ....^q.7

ftG. ' . .....

\ euV« W ^ v . -.....cA^5,,ic3.s.....

3 40ml vials - VOC'S pre-preserved

2 1liter amber - SVOC'S

1 500ml - metals pre-preserved

by Kennier & Sharm @

5 0 * H ^ 5 "

4 directly into sample containers

4

3t° MM, 8731"./J.....'.'161° ^ I' ^5", W2« U

864.75M

Photo Log

(7)

SEM
7/18/07
Bare

(1) Mr. tripps spigot by dog pen
(2) photo of Ronny ~~Bear~~ ~~Baar~~ spring pump house

K5-3

ene Lewis spigot @ pump house

(4) ken Bare spigot @ cow pt

(5) Roan Creek spigot

.J X-CJC J*~wns~K^ ^ S ^ S H A * "

ao this morning (8) 7/18/07

aSt -verification check

^(Vid^Á-H ,V^JXJU^ ^ 9 SESD ID 990400021419

ö.38 reads 4.34 NTU
51.4 reads 51.7
503 reads 497

Condoctivity meter
SESD ID 09100155

46.7 reads 44 µS/cm @ 26.9 °C
445 reads 445 µS/cm

pH meter SESD ID 008264

6.98 @ 26.7 °C for 7.00 buffer
4.03 @ 27.3 °C for 4.01 buffer

tagged + bagged samples w/
Mike Crowe

7/18/07

SEM

End of Day

SEM

9

7/19/07

End of Log

"Rite in the Rain®"
ALL-WEATHER WRITING PAPER

Name _____

_____

Address _____

_____

Phone _____

Project _____

_____

_____

_____

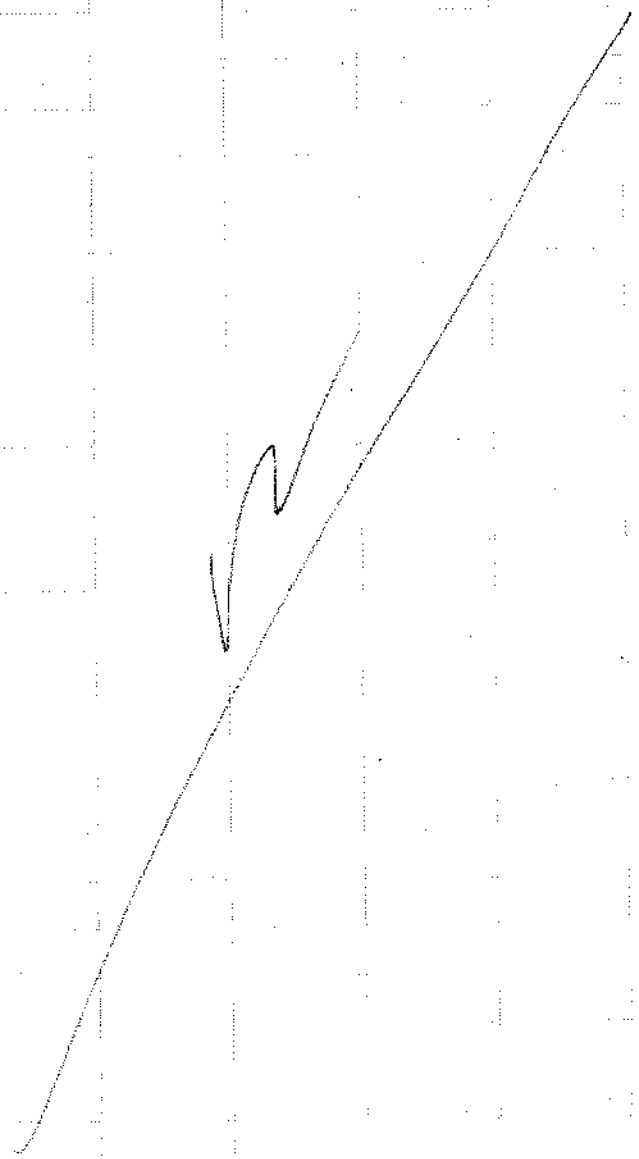
Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook.
Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation

l~~ae*00#jZs j ^

CONTENTS

PAGE	REFERENCE	DATE

Continuation of Log Book #1, inadvertently soaked in New River ~09:30 7-19-07



Cont. from log book #1

09:30 Collect OK020 SW001 lV m,ff<4j
/immersion in 1-2' depth water immediately above riffle above New River confluence w/ Peak ok. Collect ~mid New River
(1) 500 ml pre-preser TM (1) 1l poly to filter
(1) cubetainer for classical/anions (2) 1l amber SVOC

Field Param
Temp 23.4 ~y^ ^V-M2. 70 us/cm
DO 7.49 mg/L DO sat ^VI 7% pH 7.52
Tu/b' 7.4 NTU ORP 71mV

0°VHO Ft'tire' 020 $WM -&C?2T$Wfa'l
•Irs $#&*/ , htt,-ttrtsf.jt'/iJ '*/ ^ f O ^ -ĥltvK

11:10 @ OK019 W7/7 /"^^ *£(&*/
because of 7-17-07 storm & continued elevated levels per USGS on line. |*lo*> Pars, fA "ff**, Ui,Lock

Photo Log

Date	Time	#	
		1	
		I	5-ct L*k]
		3	
7-if-01	I'iO	4	Ok020 location
7-19-07	9.40	r	OK020 1D
	few'	6	OK024 weir
	16:00	7	OK 426 location
	16:00	8	OK 426 SL001 Sample
	16:00	9	OK 426 1D
	16:50	10	OKQZe' ioc-<
	17:10	11	OK025 SD 001 Sample
	17:10	12	Ok025 1D
	i'V-'IO	15	g^ Oi^ /W -tr^irvT

12:15 Collect OK019 SW 001 by dipping / immersion of bottles by Striggow/Ackerman 104' fm rt. bank

(1) 500ml preprocessed TM (1) lL to filter

Oi C»icf9>\r^ *&" c(t\>f*& UUfHtnh [2j Li cmi^s -&S bVOC

12:20 Collect OK019 SW002 74' fm rt. bank as before

tO $&g/*l pre fres f. ~ffy. Li) H fr £ltP~

(1) cubetainer for anions/classicals (2)1L amber for SVOC

12:30 collect OK019 SW 003 60' fm rt bank as before

(1) 500ml preprocess for TM (1) lL to filter

(1) cubetainer for anions/classicals (2) 1L amber for SVOC

12:35 Collect OK019 SW 004 44' fm rt bank as before

(1) 500ml preprocess for TM (1) lL to filter

(1) cubetainer for anions/classicals (2) 1L amber for SVOC

U'H0 GHrtf 0 k Of3 5 WW/2,1 • /u ft- b**k AS Ly***,

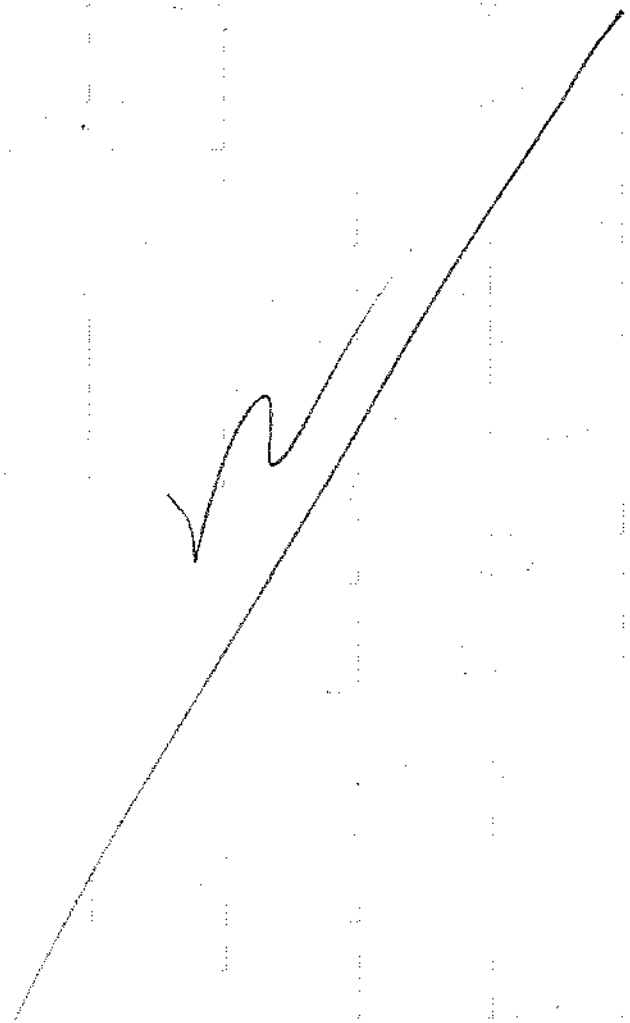
V) fr6„i {*_ + i,r$_{rS}$„ t_{wr} TH> til It it -&krf

(1) cubetainer for anions/classicals (2) 1L amber for SVOC

Utvg" CciUtv Of.di'fswcc'Tp (Ahf!;#te $ s^* hc^ri^ w/ same methods

d) S'ffo w p*fw.&,rto (I) !(* •A-lrts

\>J CbbcUf*!/ for AwiM&Jcks&Jtds (3) It 'Cf^krr 4*? SVK



. V£oi<? f,cicj Pew

12:50

OK019-SW-1	SU pH	µS/cm spec cond	C Temp	mg/l DO	% sat DO sat	mV ORP	NTU Turb
001	8.73	70	25.5	8.89	118	4	4.8
002	6•	•7? JO	2f,5	%>3H	/&	25	5:0
003	8.73	70	25.4	9.01	120	33	5.0
004	8.47	71	25.2	9.02	120	13	4.9
005	7.60	72	24.7	8.92	118	30	4.9

13:15 All OK 019 SW Samples filtered to 500ml pre-preserve containers w/ 0.45 µm filter

14:2P (5>. a'f-ox^ fa f/^•s^ jMt?&.$ k?m* '"^ f

See Flow logbook

15:40 Collect OK024-SW-001 @ a_<&...nel in breached dam. Sample by bottle ; ni&>4?f£ii$*l

(/) &s* I p,t -f^ £M rpi- 10 !i fxyiyte -filter

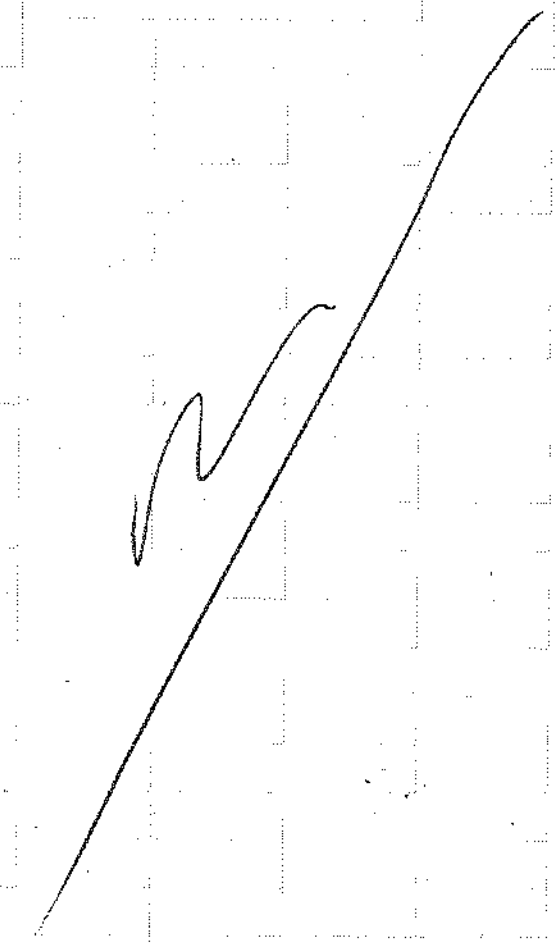
(1) cubetainer for anions/classicals (3) 40ml for VOC

(2) 1l amber for SVOC (2) 1l amber for PCB (1) f>?r> jfety for CN

Field Param pH=3.08 Sp.Cond.=593 µS/cm Temp=21.6°

DO=6.41 mg/L DO:-m% ORP=512 mV

Turb=O2 ?



16 '#& C*tlc*t OK426 SL001

Xn grass covered sediment,-r-pile below breached dam. Separate root mat w/ SS shovel & use SS spoon to pull sample fm 0-6" Sample

}5 ^ y a w ^ c ^ Urate v 7*[&*t, /*„», C\1~ 5ii V-p-et^r

in some places

fbryf*! J_n uifptr *f", 'fine &^p&-e S^fitA^vh'

(1) 8oz SVOC/PCB (1) 8oz Met/cN

(2) 8oz paste pH/ABA

few CoiU^-r" OK&zfswotn **/ 5> ic*»*

PL -f\c{f-3kf ut/^rt fieh-f $fywfy pi fe T 'PChitsC

7^T ^tr4. ^£- ££ /J^«

0) £Ve -,*ffe? J^r- f ft CO p^ -fP/VS •*£'<* C(\f

(1) subcontainer for anion/classical (1) 1L poly to filter

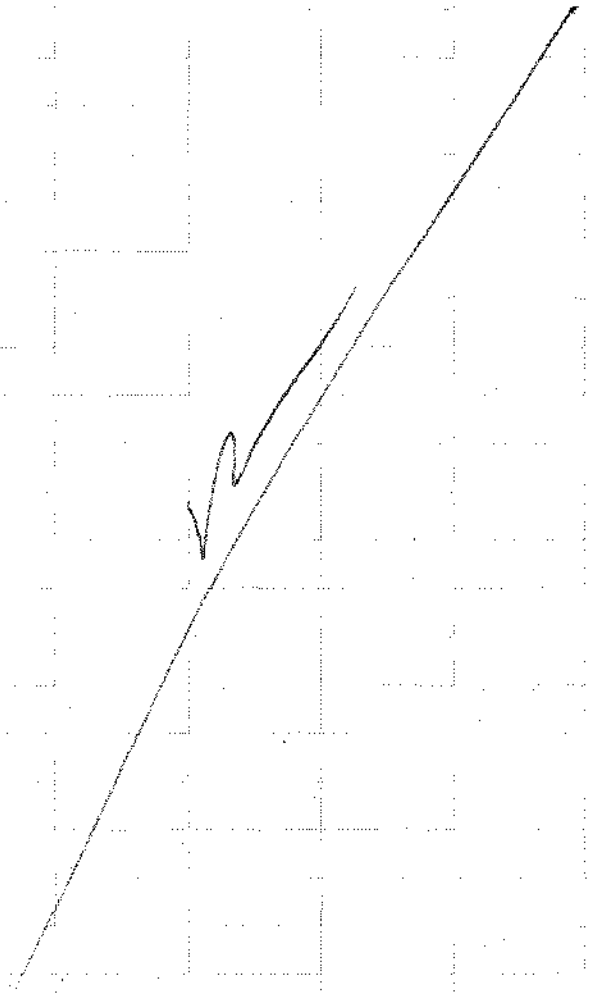
(2) Chamber for SVOC (2) Chamber for PCB

Field Param pft A3? I?.&*>J 2/16 mS/cm

Temp 17.6 DO 7.36 mg/L DOsat 82.47%

ORP 46 mV Turb 2.8 NTU

G?5 d&>2Jf@ 3CZH>mU!t' Wz^oi^H?"^

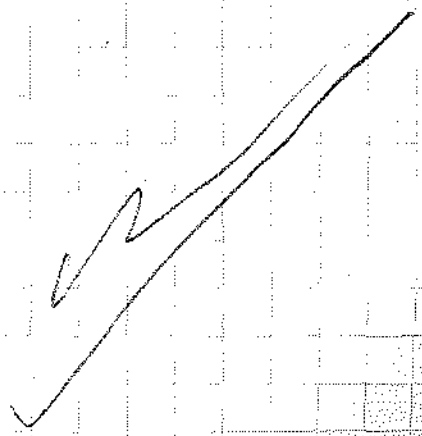


17:10 Collect OK025SD001 ~ 30'
east of base of stump pile w/ SS sco
~ 3" sample depth in 6" water.

3^t/Lfiç~ ?ro# th&4 tend **// n^&icfvbf
*H- col p c bh faf

(1) 8oz met/CN (1) 8oz SVOC/PCB
(2) 8oz paste pH/ABA

)z i 0(j- & 6^/j(3 /W ifttwrd. M<»
in flow notebook
GPS @ 36°24' 43.318N 81° id • Jh 744 W



7-19-S7

2J'-'o/jP An e-*iC 5-;^, A?i v*-^ t:

completed except for ommision of

call , £?0f£ fpK{y

7-2J-&7

7:45 On site w/ Mark Bean / B. Striggs + Bar V & Superfund div reps. Launch

USA Us-it-f jir, Sh*tH&i&' p>Q*\d- /n 'feisltH.yf

impoundmen-A *V tzCvpTc C-^JS£fT c/f-f^t

4'V i S' b-Si-Ty ttsulc/' --tHffiuS 'Ts&emj 01'd

f/Su/ pi^tpiS. £sid. $uf "^GCC- -/7<"&*-' ieq&£$

"(^ a location on N edge of rushes w/ ~2' deep water with an approximately 1' deep depression ~ 1' across. Paddle

&' 4^nc^. P0S7- tftHfiiy tie n ^M^f?? $micrent

/-S Ctf&fSS'Siei-x ', /Wet? fc? material slightly more competent. Location marked

Us/ ICftf? jOffS<+ *" ijj. USCS+ OiC cjepf*•$$;&* .

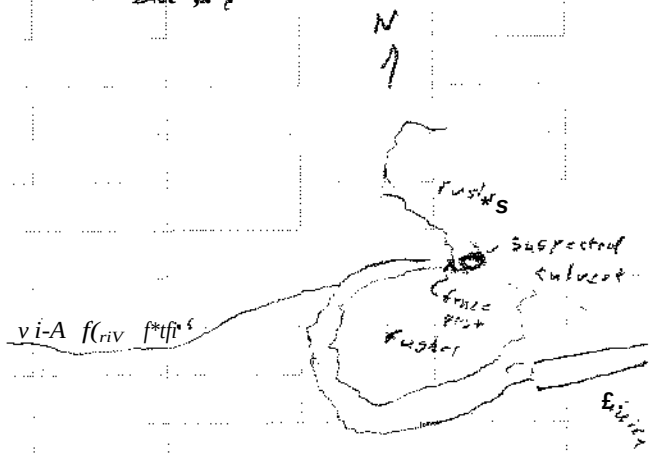
GPS'd w/ wine -- J2~ @ 36° 21' ZJA^O K!

81° 19' 28.096 w uncorrected.

No visible flow in pond towards or into suspected culvert.

14

7-20^;2-r



15

7-20-07

~9:00 AM ^-^ y.+=

End of Log book

8-10-07

7 of 8

Ore Knob Mine Site

Jefferson, NC

Flow Measurement Logbook

Project # 07-0507

Project Leader: Brian Striggow

Name and Initials of technicians

- C J ^ T V 14/, /fc#e^mcL~, ^ ^ ZzTi*

CVVcin C >tr<<tc

Ackerman - ADV Stringow - log (1)

Station ID: 0K0I3 Date: 7 / f / r / Time: / W

Meter type: AD\/ Meter #: £*A fi.,,/ty ^61? f 5er. ^60" T e ^ W i 4+k a«T;^'-* i^>o'

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity: At point	Velocity: Mean in vertical	Area	Discharge
X N	0/^'	o						0	0
M -y'	3	^gjtfff.5-			70	0-J6		i.2T	^ ^
3	4	0-8				$57		3.2	J-73
?l	H	M	x-S			ft5«		4.V	2-i"5i
/6	H	l>±				0^1		H-V	i,r?
2$	H	1-2				Q-Hl		%«"	2.^^;
11	H	t-^S			n	0-60		7W	HHH
^ r	H	X-Q			h	0<?9		y	6-32
3x		2<2			M	£33		^ ^	&l%
3&-		2-3				0.,^		%1	%>0%l
Ho	i				II	0.%7		9.2	%> O&H
*M	i				^	0<73		7.«	6-&M
u	H	1.5			if	0.91		tf	5.H6
$2	fn\	3-5	K&-2			/ o 2 N r to		10	i&.o
	\HJ	2-5	*o.i			O-fif y			
H^ Pf? ft	A	2 o	•h0,%		Jt	0,03 s iJ.IVf		ID	5-cT
Si	(v	Xb	*o~x		/'/	Lit			
&Q	£/	Atffr	Kd€			1.13		7,<i	*S-\dz
M	H	2./&			11	I-3S		v.t	iUi
6%	q	2*5*	*			t-13		<%•(,	3*i*%
7X	V	Air	*		>i	A3W		6	%,OH
7£	/A	2.6	*0.		-	/.2. >$ ^ a		IQ.--I	%U.IH*
16	W	2.6	#^*r			hOH *			
V&	u	.2*3	x # i		1	0<9f%		f*d**	KOW
tfi	H	2,X				0,&5		1*2>	5-yV
$<tf	H	2.1			k	Q.V*		Z&	6-SS2
n	u	1,1				Q,%d		f'C	5~>HH
i t	H	d*~			i'	6*70		H,tf	3-H
\O0	u	O.tf			rt	Q 57		3^	hviy
lo*-\	H	/.\5			/I	0<5-<*r		fa	2.U&
I0<£	H	id				0.12		V	>%€
\\X	Lj	ZO			)i	0*67		fl	S-U
$}6	u!	I.a				0*10		^	14
12®	Mis	2.9	h		M	h03		7	7.1*
p ']^§ii%	3.5				«	0-b		4'3	2^V
127	t	7				O'Q			0
±*'	'B*	i-5							

Page3 1 Of 15

Bits& Kacing dusm

Cum % distrn

• zn '•!
M? '•/
H. sn 2 4
&MZ in'
&7S 5
(JZ "7^^.
19. r r/-^5
2T7 /^
35.r ^op
W?.9" ^5"
n~$r Z3 _„
S-J.J ?a X 3
6f-1 5^
7W (57)
(J-^f ^
IS2S V*
tsf* so^s
if* 5^
r^i^5i
i^.t^ ?y
(Wr4 ^^
i?^i ^^>

//^-^.? ^rr APi/ ^

Station ID: OkOft Q_ltj Date:} "17-0 7 T\me:Ml 90

Meter type: APV Meter #: 5c_r. flGf

Dist. Prom initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity At point	Velocity Mean in vertical	Area	Discharge
£,< WwV- 7^ 1	X+/	0						0	
Ur	/7,T~	0,-d	X&*		z&	&.&			
/Z3	3-fT	1<H	"		"	0<xt			
IZO	3S	1.0	i.		"	0,3^			
m	J± 1	2*0	(		•1	0,z*/			
1/2,	-jaZJ	M	"		"	0^2			
/ o ^	H	.6**1	"		11	D-13			
/OS	¥	J-Z	"		~	&<5&			
IOQ	H	H	i.			O>HI			
3k	a	1*.	«		1'	0*75			
Sx	^	ILHJ	t.		/.	T^Z]			
-1^L\	a 1	J-3	i		1.	0JL\			
84	Lj	2^21			H	Mi			
^0	•i	JL.HS 1	i i		<l	AIL			
7/J		z-i	J		•1	I OB			
7X	<V	1_5	*		1	M '			
(?tf	1	2.I	ii		u	1>H			
CH	V	2-3	'		,	U<t			
&£?	W	2-#?	"		'	]>0J			
5G	f^)	J2,<5	^•2		1	1-22 \			
Si	W	2-1	*#.</		"	IKI			
Sz,	f^	~T~\	jetf-6		i;	O^x			
Htf	4	hi	1'		"	I%0			
if ^	1	M	"		., "	113			
Ho	u,	2.<9	i/		i.	0'tfl			
3s	4	2, JT	X&2		"	I>02 \			
Dh	4	-?.?	x#_r<y		»«	0*52 '''			
32,	H	X '2	X0-&		"	Ott			
%%r	M	2-<?	1 -		"	0*5$			
X*j	H	A*5"			i'	9-5*7			
IO	H	/a	I(		'i	S'£l			
U	H	I."3	1'		"	@<13			
a	L f	A;	"		"	0.52			
%	ii,	/ ^	I [		"	Q<tjl			
I,	3	0.6	"			Ml^			

Bag i P nf 1 ^

Pc Dark 2 7 i

•M^l pzr AP": IS%15

(3)

Station ID: 0l<018 Date: 7/16/07 Time: Q-'QT Total width 28.5'

Meter type: t^VV Meter #: $cf Pi 6if

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity		Area	Discharge
						At point	Mean in vertical		
Left Bank 2	0.5	0	na	na		0			
-U'''- 3	1	0.3	XV. 6		20	0-1X			
K" 4	1	0.3	"		"	0.25			
5	1	0.75	"		"	0.15			
6	1	0.75	"		"	0.18			
7	1	1.15	"		"	0.24			
8	1	1.25	"		"	0.20			
9	1	1.3	"		"	0.34			
10	1	1.3	"		"	0.6			
11	1	1.2	"		"	0.35			
12	1	1.35	"		"	0.53			
13	1	1.4	"		"	0.56			
14	1	1.35	"		"	0.43			
15	1	1.3	"		"	0.61			
16	1	1.3	"		"	0.58			
17	1	1.1	"		"	0.5			
18	1	1.0	"		"	0.67			
£1	1	0.III	"		"	0.73			
20	1	0.9	"		"	0.69			
21	1	0.9	"		"	0.6			
22	1	0.85	"		"	0.59			
23	1	0.85	"		"	0.57			
24	1	0LI	"		"	0.61			
25	1	0.9	"		"	0.52			
26	1	0.9	"		"	0.5			
27	1	0.75	"		"	0.34			
28	1	0.fa	"		"	0.3			
29	1.25	0.3	"		"	0.05			
30.5	0.75	0				0			

ADV flow = 12.05

(4)

9/6

10' width

Station ID: OKO'J^I Date: (-itf-O? Time: I Z- 45

Meter type: ADV Meter #: 5MS~ P168

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity		Area	Discharge
						At point	Mean in vertical		
Left Bank 6 _ ")	-X5	0 * Z *	*Q.6	*w#	XO	O			
* * > '	0.5T	0.4			*•	-*0H			
7/	0-5"	0-<X				Q*\%			
^ 5	0.9	0-7				Q.X6			
? •	0.<	0<$f			'/	Q3&			
#•5" •	o.f>	Q*#5r				Otis'			
9	QX	ox) •				QH$			
9.5"	Or '^	0*9				OH			
10	OX	0.&				ox			
10.x	&$	0>3				0a\			
//	oX	0-5				0X7			
J/-5	oX	Q,<6				O'Vf			
12	4-r-	a<f				OHJ			
12?	aX	a.,w				OH?			
B	ox	0-9				OHO			
H.5"	oX	0-3				0-36			
14	OX	0<£				0 36			
H.5?	OS	0.7				0,21			
Ir<)	(7-75"	OX				013			
\&'	0.S"	0				0			

ADV Flow = 2.272

(p

2 - 33 ft width

Station ID: *f)^Oil* Date: *7^~&Y* Time: t'3-3<?

Meter type: Afi^ Meter #: „f|i^L

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity		Area	Discharge
						At point	Mean in vertical		
2 x	^.r<	0							
3-5/	J-5T	&2-	X # . tf		2J	a.tfz			
5' '		OS	^		a	0J6			
6.5		0.7	"		t	3			
%		075"	f.		t<	0,%			
9-5"			n			CWff			
/i		MS	!'			on€			
U o		/O	r			0#?			
\ij		i<2			*	Q##			
15-5		I'25			u	0<t3			
11		13$				o^i			
I^S		Jo				0.*3			
2D		U7	r		S	Ui'Cji			
X/.?		X	I			031			
2'5 '		1*6			J	6,2.2.			
-2^5		1-3			S/	0,\7			
2-6	1.5	0,g			»	OAH			
2.7^	Z	0'7			J	0-17			
30	3.25*	o-i	if			0A7-			
34	Z								
		V							

Eaa|» S nf.1.^

WW A * * /0349c^5

<@

^S"^2* 3? u^W-rS

Station ID: <1/^ Q\ (y Date: Vi$"0r Time: jS'l/)

Meter type: $\Pif Meter #: p\G<f

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity		Area	Discharge
						At point	Mean in vertical		
MU 2.	6-9	0							
3	1	(7.^	*0*i		2.0 .	0			
4		1 2	h		i<	OA-f			
r		Jo	H			^2/			
e		/.7			<i	^23			
7		\.Cf				$3/			
^		,}/y			/>	aaer			
3		(,$'			k	#36			
10		W				$ö V			
n		/,i>			i,	<23tf			
IZ		/.4	h			$<3S			
13		*-2JT	u			0$o			
m		/-/				0.3*			
/y	1	10	"			&U			
//:	l	fl-tf	"		/•	032,			
n	/*~	V6				#31			
IS	?	O^H	*			0,0*3			
f%021	2	o-i			'/	Q>2£			
23		0.H5				037			
if		0>H				&33			
2		0.35	11		"	O*H0			
2^		0o;T			11	04*			
3f		<?.$r	u			037 j			
33		fl'3				0<U			
ftrW- }"iS		0				0			

Eag» fi nf 1 *

Ai?t/wW * 7<gfff<rfj

(7)

Station ID: O k O I T Dato: ? ~1 #-*>7 Time: U-^5

Meter type: A Pi/ Meter #: P 16 if

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity		Area	Discharge
						At point	Mean in vertical		
Left Bank	0.<f	#							
3	1	a5	Me		Xo	(7-0<>			
H	1	0<5T	-		h	0.07			
5	i-f	0.(5	M		M	OAZ.			
7		0*6	>-			P-ZO			
°)	Z	0.6			W	03O			
n		o.if	1'		'•	Wl			
13		O'H	'<		i'	o.it			
15'	t$	0>¥				0>i9			
H	1	I>$5			>'	0,i3			
J7	I	1-0	u		"	<W			
I•	t	O'Vif	!<		"	0H7			
K?	I	0>Y			••	0'HS			
2$	i	0.1$	1.		'<	(>*&			
7/	i	0-9			!.	0*71			
	i	o,y	1)		K	Q,7X			
23	I	0-6$	•1		1.	0-7			
24	i	0.7?	t|		1,	0-7i			
IT	1	o:?$	V		'.	0<$7			
26	I	&>65	1.		»I	&60			
27	i	0^5	>\		'I	041			
28	1	04	1.		1,	050			
29	I-2S	06	'•		t,	Wl			
At bank	30-5T	tf-75"	0*			0,15			

iwu -f(*v= ff<0%

(8)

Station ID: *OK^lj* Date: *Z 7 " / ^ ^* Time: *17^5*

Meter type: *hPtf* Meter #: *?\6tf*

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity		Area	Discharge
						At point	Mean in vertical		
Left Bank **3**	*0<2F*	&				&			
?-f	*OSW*	*P'lfT*	*X0>&*		***za***	*0,01*			
3-7F	*o?S>*	*0'H*	si		j \	*0a¥*			
ij		*OM*	,'		><	*Q, $u—,*			
H.25		*c?s*	'		6(	*O-Sx*			
H-5		*OS*	1'		/\	*OH4*			
y.7s		*0<5*	if		!•	***O^I***			
S		*&M5*	'1		i .	*&H*			
5 IF		*6-55*				*&1t*			
66		*/X "j*				*AZ?*			
*S*7f*		*U **£t*				*0-5Z*			
6		*OA*				*0*2.6*			
6-5**	*oos*	*0*							

/W /W ^^'3#2 ofs,

frlc a192

(9)

Station \D:C?fc0l9 fcfctfDxa: 7 ^ 7 ^ 7 Time: I b'20

Meter type: A O t / Meter #: P\G^

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity At point	Velocity Mean in vertical	Area	Discharge
Rt Bnfr 2	2	0				0			
6	4	0.9	W.6		20	0.36			
10	4	1.1	"		"	0.63			
14	4	1.4	"		"	0.67			
18	4	1.3	"		"	0.5			
22	3.5	1.5	"		"	0.89			
25	3.0	1.65	"		"	0.61			
28	3.5	2.1	"		"	0.82			
32	4	2.35	"		"	1.08			
36	4	2.6	x0.2		"	1.31			
36	/	2.6	* S, *(		"	0.75		/	
40	4	2.5	y&*f		"	0.73			
40	/	2.5	x0.2		"	1.23		/	
44	4	2.05	x0.6		"	1.42			
48	3.5	1.6	Y&.6		"	0.91			
51	2.5	1.3	"		"	1.18			
53	2	2.8	/Q-3		"	1.5			
53	/	2<%	* 0. %		"	0.78		/	
55	2	3.2	x 0, %		"	OHH			
55	/	3,Z	*P>Z		"	1.36		/	
57	3	1.9	*0, 6		"	0.94			
61	W	2.2	"		"	1.36			
65	4	2.35	"		"	1.54			
69	IS	2.4	"		"	1.24			
72	3.5	1.35	"		"	1.48			
76	H	2.8	xv<X		"	1•?7			
76	/	2.8	X4>tf		"	0.97		/	
80	4	2.6 &La -t>	*d* f		"	0.95			
80	/	2.6	x0.2		"	l-2l			
84		2.5	x0.2		"	0-12L			
84	/	2.5	v&> %		"	0.72			
88	4	2.3	x0.6		"	1.07			
92	4	1.8	n		"	0.86			
96	4	1.4	"		"	1.12			
100	4.5	1.4	»<		"	0.49			

-Eage Q nf15

ilt/D

continued

file 192

(10)

Station |p. &KQti /e&fji' Date: >l~ 17*07 Time: 1/.20

Meter type: l\QV Meter #; £liLf!

Dist. From ir^j^point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity At point	Velocity Mean in vertical	Area	Discharge
1®X	b'	£» ?	jr0«£		2,0	IB			
Iffl	H...r	/.V	jj		i J	0<62			
114	H	^	n		w	i-N			
11^	?.5"	2-45'	1 f		I-1	oJH			
/*l	3.r	2.1	1 J		h	i > G ^			
U?	4	].3f	"		*1	(J.P3			
U^	3	0.6			-	0,01			
Left Bank isf	? j£*p	0				0			

Eag£ 1 n nf 1 ^

ADU d:\fc.Mir"A& = 233.6 cts

file 024-0241

Station ID: ^ ^ O ' X J Pate: ^ 9 - 6 7 Time: W Q g 5 ~

Meter type: A P i / Meter #: f* / 6^

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity At point	Velocity Mean in vertical	Area	Discharge
1t bank 2		<2				0			
2.2,r		0>i	'0-6		20	0			
2,5 tf£n> -L/		&4$	ii		-i	o.oz			
2*75*		Q'i}>			ii				
I 1 hsfakAi K	XYo*	srt~t -	^v) y ^ r	sft*- S'7	rrfrih *£v	anTw v	£4i?i6 f	f *	
1t bank 1-5"	, ur	a				0			
/•7f		V.I	if 8- h		Zo	a			
2		fffZ.	u		u	0.0}			
2,25"		0<Z5	h		ll	-Q<01			
2o y		8&	n		"	0,0			
Zns		675	> i		(1	~o,&y			
3*0		$>7jf	c		»1	"'0.0 d			
3-2S-		& «T	ii		'(	-O<0¥			
?*5"		1*0	ji		If	04 \			
I 7 f		M	JI		*»	0*$2			
H^		la	t*		II	6>&S			
H.#-		i,z	it		rt	0f0?>			
*K		/»W	«		4 i	aoc			
4-"75*		H	i'		1 1	OrQZ			
5*		/•*T	»i		If	@<Q?)			
5'. 2 ST		I•2S"	•i		M	o*os			
&t)		I>I			>i	~o,oz			
5*7$	,25	0.3	>		It	-V-H			
6'	•-;?	0,6	i»		M	~0>0£			
6/75'	*')75	0				0			
^			§Ph	fi$6us^	0,36				
Mr,	...	U « ' ''fl fc* /	'i:/-\<-d	f ltftlMfl	c t.lxo>7	' v r I *	\Mfs		
V ft-<	'TCIA	U -e/A /**	fify*/ A f-f	i %	i > M * i	AA&h:/	:$Wf"&~fe	,;• <y-35'	
Ir/^i	g/ fe*' #	A ^4 * :)A	kV<r	is 0.7	/ V «	9 Hffpm,			
	r			no decimal	T-ftr	/		N	

F//e)3

Station ID: dKGl^ Date: 7~ft~6 7 Time: I ^ W

Meter type: J^DV Meter #: Pl£lf

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity		Area	Discharge
						At point	Mean in vertical		
1	04zr	#				$			
hl*>\		0*2L	**•(>		2<?	OS			
Mr~T		7/^23				tfr&j—i	/ $ .A-* ^ * 7 - f t -67		
J'5^		#2$-	>)			0<\5			
/-7F		$.y	h		<>	0*5*1			
2		#•*T	i,		ti	C'6\			
2-2r		tf. Hf	"		^\	o.ji			
2-5"		O^S	a		H	0<p			
2.75"		6>H	«		J»	0.16			
3		0-3	•'		•w	oai			
3Jfr	e?'25"	0-3	n		I)	-Q.0ti			
3.5\	a,3i$	0-25	»		^i	-&A3			
4 /	'&<ZS								

Eag£ 11 nf 1 *

ADV Flow = 0.284 cfs

Station ID:__________________ Date:____________ Time:____________

Meter type:__________________ Meter #:.____________________

Dist. From initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity		Area	Discharge
						At point	Mean in vertical		

S U &. *4

Ore Knob Mine Site

Jefferson, NC

Data Sonde Calibration Logbook

Project # 07-0507

Project Leader: Brian Striggow

Name and Initials of technicians

DON FORTSON DF

Calibration Form

Initials: DF	Sonde/Serial #: 45 - 01050045
Project #: 07-0507	Project: Ore Knob Mine Site

DATE/TIME	Begin	7/17/07 0515	7/18/07 0610	7/19/07 0530	/	/	/
	End	7/18/07 0610	7/18/07 2000	7/19/07 2050	/	/	/
BAROMETRIC PRESSURE (mmHg)	Begin	690.8	689.4	688.5			
	End	689.4	688.9	686.0			
DISSOLVED OXYGEN @ 100%	Begin	100	100	100			
	End	100	~~16.23~~ 100	100			
TEMPERATURE (Air/Standards)	Begin	25.2 / 24.46	24.2 / 23.6	24.0 / 22.9	/	/	/
	End	24.2 / 23.6	21.5 / 21.1	21.4 / 21.3	/	/	/
CONDUCTIVITY 2060 (µs/cm)	Begin	2080	2056	2056			
	End	2056	2048	2058			
pH 7	Begin	6.73	6.94	7.08			
	End	6.94	7.15	7.07			
pH 4	Begin	~~3~~6.71	4.06	4.08			
	End	4.06	4.11	4.10			
pH 10 (read only)	Begin	10.07	10.06	10.05			
	End	10.06	10.15	10.09			
ORP (mV)	Begin	238 @ 24.28	232 @ 23.0	231 @ 23.0°C			
	End	232 @ 23.0°C	235 @ 21.2	235 @ 21.0°C			
DISSOLVED OXYGEN %	Begin	100.05	99.14	99.40			
	End	99.14	96.23	101.35			
TURBIDITY 0 NTU	Begin	0.20	0.90	-0.8			
	End	0.90	-1.0	0.6			
TURBIDITY 100 NTU	Begin	~~10~~ 99.40	100.0	106.6			
	End	100.0	103.8	103.0			
OPERATOR	Begin	DF	DF	DF			
	End	DF	DF	DF			

DF 7/19/07

Conductivity Std. Manufacturer: Myron L Lot#: 091960 DC Expiration: 13OCT07
pH 4 Std. Manufacturer: FISHER Lot#: 065274 Expiration: 10/08
pH 7 Std. manufacturer: FISHER Lot#: 066179 Expiration: 12/08
pH 10 Std. Manufacturer: FISHER Lot#: 2703350 Expiration: 9/08
Zobell's Solution (OR.P) Manufacturer: YSI Lot #: 07R1958 Expiration: 1/3/08
Turbidity 0 Std. (deionized water) Location SESD Lab #: F110 Date filled: 7/13/07
Turbidity 100 Std. Manufacturer: YSI Lot#: 07C679724 Expiration: 3/08
Barometric pressure obtained: YSI 650 MDS S/N 04J16143 AF

THERMOMETER 020807-04 Cal. Due 12/4/08

AIR T = ~~24.2°C~~ DF 7/17/07 25.2°C STD T = 24.2°C

Calibrations were performed according to SESDPROC-111-R0.

Calibration Form

Initials: Df

Sonde/Serial \\\ •/4 01^5 E0^2

Project #: 07-0507

Project: Ore Knob Mine Site

DATE/TIME	Begin	/*.-o.-/s(^->	3\:<4:hW	/	/	i	i
	End	?/.7/'o'JAHC	••/U'th^	X'	/	i	i
BAROMETRIC PRESSURE (mmHg)	Begin	£ ^ ^ . ^	^$9.4				
	End	•ft. ' i	^Ss'/	N			
DISSOLVED OXYGEN® (OOX)	Begin	//-> (^	/ \ ^				
	End	• ^ c)	•i9rH^				
TEMPERATURE (Air/Sund.nds)	Bcg.n	?«/»/ /^¥	^y.-r ' ^	/	X	/	i
	End	^1 > ' ft*	W / ht*	/		i	/
CONDUCTIVITY 2C>GC> (µs/cm)	Begin	?.0 ? Z -	Z04D			j) •>*?	
	End	X6^G	OP^S		•u	y~~	
pH 7	Begin	7,ot>	£??		y9		
	End	liCS	7j<r		v<IA		
pH 4	Begin	4'.of	^.in			> * \	
	End	i.ef	*iJ(p				
pH 10 (raid only)	Begin	/%oC	\o.o%				
	End	iv. 13	10-a%				
ORP (mV)	Begin	2te&z</.o	ZIZ& ZH.o^				
	End	^q-Gpufi	%&&*(,*&'				
DISSOLVED OXYGEN %	Begin	iohj'0	ici.w				
	End	io^.ic	^/iS				
TURBIDITY ONTU	Begin	3, ^o	- ¥.¥©				
	End	o* i	-6,2.				
TURBIDITY 100 NTU	Begin	'? / . /	M$ZQ				
	End	%-i	97.V				
OPERATOR	Begin		kF,				
	End	JU£	Df				

Conductivity Std. Manufacturer: tAyroflL Lot#: 6^l/iU> DC Expiration: 13^0^

pH 4 Std. Manufacturer: pl^&L. Lot#: OUS'^TJ Expiration: t^/c%

pH 7 Std. manufacturer: fTi^&t. Lot#: dUo i l l Expiration: /*/*>&

pH 10 Std. Manufacturer: fl^HB^ Lot#: X7C3Z9& Expiration: 'lj$$'

Zobell's Solution (ORP) Manufacturer: Yg>X Lot#: 07-A H5"< Expiration: ifafa%

Turbidity 0 Std. (deionized water) Location SP&D Lab #: fT/ip Date filled: ^ t sfo^

Turbidity i00 Std. Manufacturer: YiTZ Lot#: <3PC67?7<W Expiration: &j&q

Barometric pressure obtained: Y$X feSD ffitF* jS/fif fr^JlLl^A^

NIST Thermometer A,.- 24.2 / S'fP 24.2 @ 7/17/07 0600

CcMbfdi-ioi^s \Aiert pcrWmtd accord(na h S'BSPf^OC-111-R0.

Calibration Form

Initials: > *j?*

Sonde/Serial #: V "J - O } o f o o </ 7

Project* 07-0507

Project: Ore Knob Mine Site

DATE/TIME	Begin	?•#•*? fair	/	/	1	/	/
	End	7Hc¥$£zc	/	/	1	/	/
BAROMETRIC PRESSURE (mmHg)	Begin	&%%*i					
	End	C<ft**s					
DISSOLVED OXYGEN (aq) (%)	Begin	joo					
	End	foo					
TEMPERATURE (Ar/Stand.vdst	Begin	Hi ^A-1	/	/	/	/	/
	End	a \7 ^/ 7	/	/	/	/	/
CONDUCTIVITY (25C) (µs/cm)	Begin	toys					
	End	.2 C i^f					
pH 7	Begin	£W					
	End	frio					
pH 4	Begin	$.?¥					
	End	tfjo					
pH 10 (road only)	Begin	{&&&.					
	End	?D, 1 l					
ORP (mV)	Begin	;3&&tZ..$*					
	End	a^awt					
DISSOLVED OXYGEN (%)	Begin	?A.A3					
	End	H^f					
TURBIDITY (NTU)	Begin	9.3"					
	End	&1					
TURBIDITY (100 NTU)	Begin	nn					
	End	<ttt					
OPERATOR	Begin	14					
	End	W					

Conductivity Std. Manufacturer: MY&bti IJ Lot#: g*? / ?6fl 6C Expiration: M&cTC?

pH 4 Std. Manufacturer: ^ Lot#: 0^SO.l4 Expiration: to/o%

pH 7 Std. manufacturer: £7 fU&/C Lot#: Ot>& 11H Expiration: fa/of

pH 10 Std. Manufacturer: ^ Lot#: J705350 Expiration: *)/o g

Zobell's Solution (ORP) Manufacturer: KSiE Lot #: £> 7 A /? $t Expiration: //g/#V

Turbidity 0 Std. (deionized water) Location £&£ t> Lab #; -^ p/Ts Date filled: V'i/g?-

Turbidity 100 Std. Manufacturer: "*SX Lot#: Q"?"C klllOtf Expiration: .lfo%

Barometric pressure obtained: j^L b€0 W&Z S/N 0 Vj /£ ^3 A?

Caiihr^iC^S wen. pirUvmtl a&or&iA^ h SCSPfKcC-.!!!-RO

4cH

Calibration Form

Initials; \^ Sonde/Serial #:

Project #: <J*NQ507 Project: Ore Knob Mine Site

DATE;TIME	N^ogin	/	/	/	/	/	/
	EV	/	/	/	/	/	/
BAROMETRJC PRESSURE imrnHg)	Begin\						
	End	\					
DISSOLVED OXYGEN S? 100"F;	Begin	\					
	End	\					
TEMPERATURE (A1/StaiiGaids i	Beg in	\	/	/	/	/	/
	End	/ 1S	1	/	/	/	/
CONDUCTIVITY (µs/cm)	Bngm						
	End						
pH 7	Begin						
	End						
pH 4	Begin						
	End						
pH 10 (rend only)	Begin						
	End						
ORP (mVi	B. -gn						
	End						
DISSOLVED OXYGEN %o	Begin						
	End						
TURB1DHY O NTU	Begin						
	End						
TURBIDITY 100 NTU	Begin						
	End						
OPERATOR	Begin						
	End						

Conductivity Std. Manufacturer:_____ Lot#:_____ Expiration:_____

pH 4 Std. Manufacturer:_____ Lot#:_____ Expiratidta:_____

pH 7 Std. manufacturer:_____ Lot#:_____ Expiration:_____

pH 10 Std. Manufacturer:_____ lot#:_____ Expiration:_____

Zobell's Solution (ORP) Manufacturer:_____ Lot#:_____ Expiration:_____

Turbidity 0 Std. (deionized water) Location_____ Lab #:_____ Date filled:_____

Turbidity 100 Std. Manufacturer:_____ Lot#:_____ Expiration^_____

Barometric pressure obtained:^_____ ^ _ _ _____

APPENDIX C

Tailings Impoundment Ground Water and Surface Water Data
(electronic file: TailingsGWSWData.xls)

Ground Water Levels

MW-9
MW-10
MW-12
MW-13
MW-14

Surface Water Depths in the Southern Impoundment

Piezo1A

Daily Precipitation from Laurel Springs, North Carolina

Precip

Figure 5-7. Ground Water Levels in the Tailings Impoundment

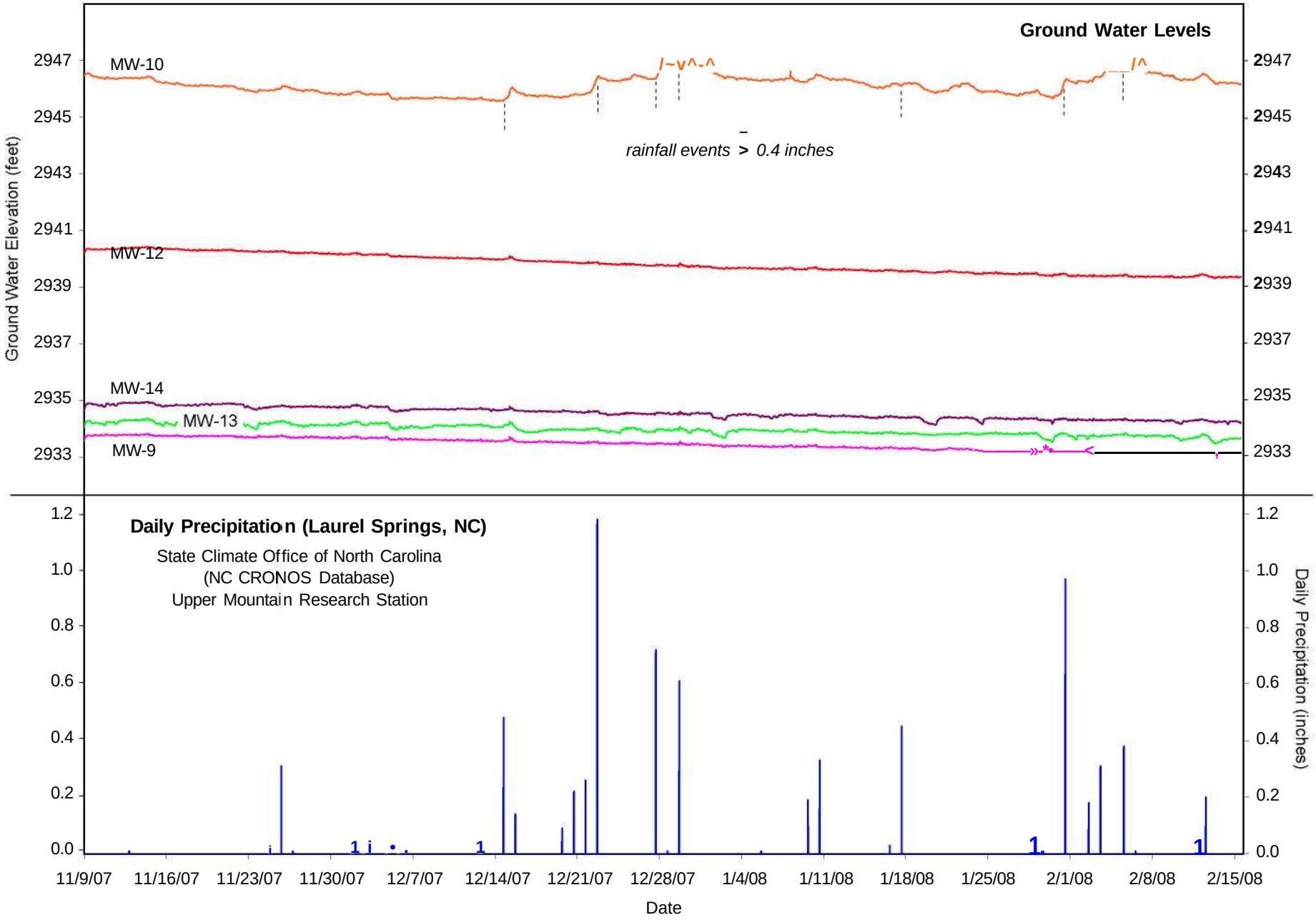
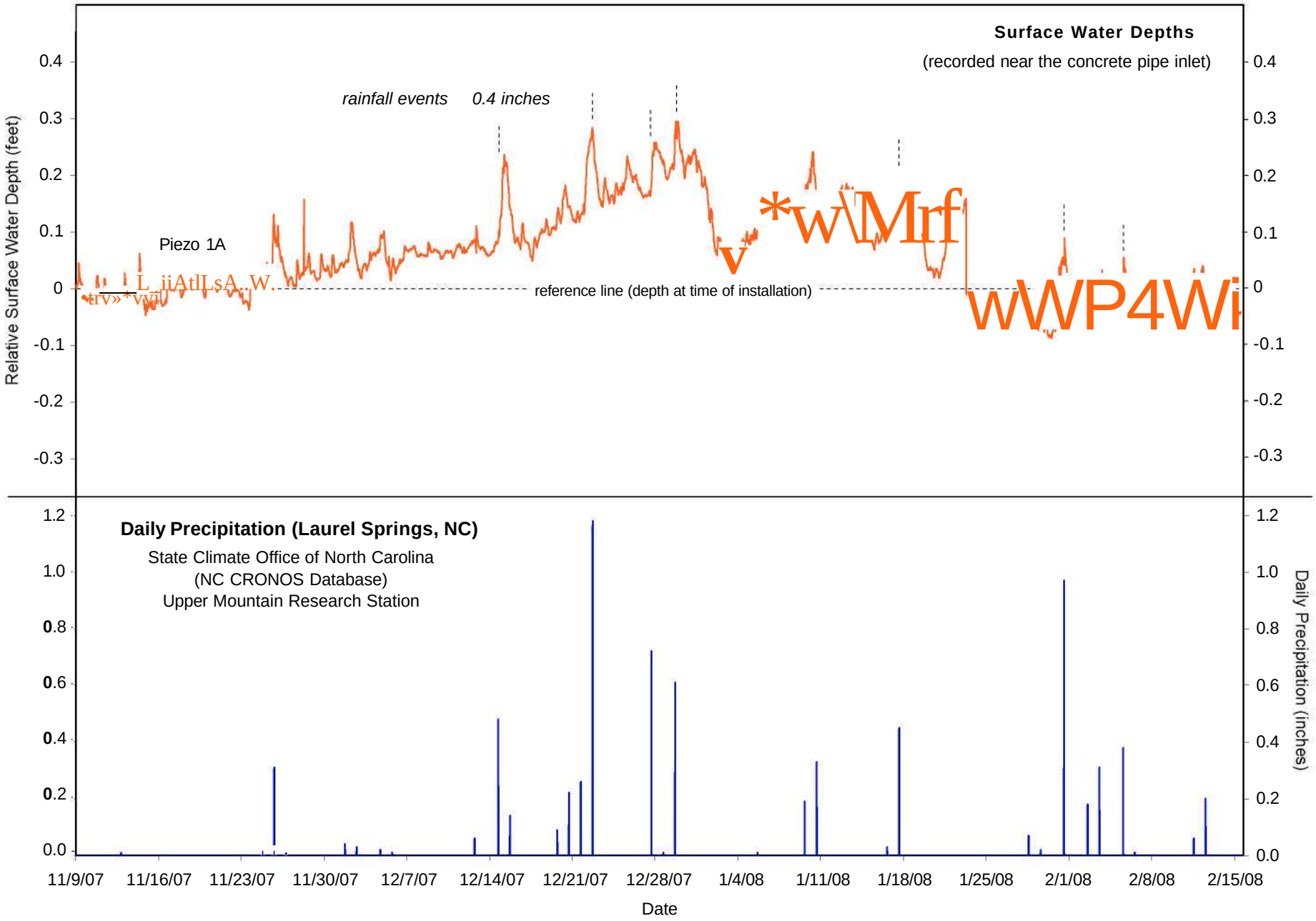


Figure 5-8. Surface Water Depths in the Southern Tailings Impoundment



APPENDIX D

Flow Measurement Data
(electronic file: FlowMeasurementData.xls)

Flow Measurements (Acoustic Doppler Velocimeter)

OK013
OK014
OK015
OK016
OK017
OK018
OK019
OK021
OK024

Flow Measurements (Weir)

OK024

APPENDIX D
SUMMARY

Station	Sheet	Location Description	Date	Time	Width (ft)	Area (ft^2)	Discharge (cfs)
OK013	OK013	Below tailings impoundments on Ore knob Branch	7/19/2007	18:03:59	3	0.91	0.284
OK014	OK014	Ore Knob Branch, near Peak Ck. Confluence	7/18/2007	17:50:59	3.5	1.01	0.389
OK015	OK015	Peak Ck., above Ore Knob Branch confluence	7/18/2007	16:45:53	28.5	17.87	8.084
OK016	OK016	Peak Ck., below Ore Knob Branch confluence	7/18/2007	15:04:45	32.5	25.92	7.788
OK017	OK017	Peak Ck., above Little Peak Ck. Confluence	7/18/2007	13:36:27	32	30.75	10.349
OK018	OK018	Peak Ck., below Little Peak Ck. Confluence	7/18/2007	9:08:53	28.5	26.17	12.052
OK019	OK019 7-17	S. Fork New River below confluence w/ Peak Ck.	7/17/2007	11:07:44	128	212.26	170.633
OK019	OK019 7-17D	S. Fork New River below confluence w/ Peak Ck.	7/17/2007	11:54:05	128	216.58	168.732
OK019	OK019 7-19	S. Fork New River below confluence w/ Peak Ck.	7/19/2007	11:30:32	129	238.01	233.613
OK021	OK021	Little Peak Ck above confluence w/ Peak ck.	7/18/2007	12:48:12	10	7.31	2.272
OK024	OK024a	Little Peak Ck @ breach in tailings dam	7/19/2007	14:25:57	1	0.12	0.001
OK024	OK024b	Little Peak Ck @ breach in tailings dam	7/19/2007	14:35:21	5.3	4.12	0.036
OK024	OK024c	Little Peak Ck @ breach in tailings dam	7/19/2007	14:55:32	0.5	0.06	0.082
OK024	OK024weir	Little Peak Ck @ breach in tailings dam	7/19/2007	15:30:00			0.1122

APPENDIX D
SUMMARY

Station	Sheet	Comments
OK013	OK013	Acoustic Doppler Velocimeter (ADV)
OK014	OK014	ADV
OK015	OK015	ADV. Note that discharge upstream of Ore Knob Br.exceeds discharge downstream of confluence. Attributed to
OK016	OK016	reasonable measurement error for both stations.
OK017	OK017	ADV
OK018	OK018	ADV
OK019	OK019 7-17	ADV
OK019	OK019 7-17D	ADV. Repeat Measurement. Considerable rain after this measurement
OK019	OK019 7-19	ADV. Measured two days after rain. See USGS discharge data
OK021	OK021	ADV
OK024	OK024a	ADV. Channel thought to be too shallow for accurate measurements. Discard
OK024	OK024b	ADV. Channel stagnant with considerable reverse flow. Discard
OK024	OK024c	ADV. Single point measurement of small rectangular channel. Approximate measurement at best, likely biased low.
OK024	OK024weir	60° V-notch weir. Improvised installation. Possible inadequate relief behind weir likely biased high.

APPENDIX D
OK013

File	----------						
Start	Date	and	Time		7/19/2007	18:03:59	
Sensor	Type		FlowTrackeHandheld		ADV		
SerialNumb		P168					
Averaging	Time	----------	15	sec			
Units	system	----------	ENGLISH				
Staff	height	----------	0	ft			
Gauge	height	----------	0	ft			
Rated	discharge	----------	0	cfs			
Starting	edge	of	water	----	LEW		
Number	of	stations	----------	10			
Total	width	----------	3	ft			
Total	area	----------	0.91	ft^2			
Total	discharge	----------	0.284	cfs			
Mean	velocity	----------	0.287	ft/s			
Mean	SNR	----------	32.9	dB			
Mean	std.	error	of	vel.	---	0.11	ft/s
Mean	boundary	conditions	--	0	(BEST)		
Boundary	condition	(Bnd)	--	0:00	BEST		
	1:00	GOOD					
	2:00	FAIR					
	3:00	POOR					

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	1	0	0	0	0:00	0	0	0
1	1.3	0.2	0	0.6	18:04	15	0	0.508
2	1.5	0.25	0	0.6	18:08	15	0	0.131
3	1.8	0.4	0	0.6	18:09	15	1	0.593
4	2	0.5	0	0.6	18:10	15	0	0.615
5	2.3	0.45	0	0.6	18:10	15	0	0.54
6	2.5	0.45	0	0.6	18:11	15	0	0.42
7	2.8	0.4	0	0.6	18:11	15	0	0.164
8	3	0.3	0	0.6	18:12	15	0	0.068
9	3.3	0.3	0	0.6	18:13	15	0	-0.043
10	3.5	0.25	0	0.6	18:13	15	0	-0.127
11	4	0	0	0	0:00	0	0	0

APPENDIX D
OK013

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0.508	0	0
31.3	38	0.84	0	73.54	1	0.508	0.05	0.025
44.7	-13	0.06	0	73.38	1	0.131	0.063	0.008
34.8	-6	0.03	1	73.38	1	0.593	0.1	0.059
32.6	-2	0.03	0	73.35	1	0.615	0.125	0.077
31.3	-4	0.03	0	73.35	1	0.54	0.112	0.061
30.9	-12	0.04	0	73.36	1	0.42	0.112	0.047
30.5	-21	0.02	0	73.35	1	0.164	0.1	0.016
30.9	-18	0.01	0	73.35	1	0.068	0.075	0.005
29.2	58	0.01	0	73.33	1	-0.043	0.075	-0.003
33.1	43	0.02	0	73.31	1	-0.127	0.094	-0.012
0	0	0	0	0	1	-0.127	0	0

APPENDIX D
OK014

File	----------						
Start	Date	and	Time		7/18/2007	17:50:59	
Sensor	Type		FlowTrackeHandheld		ADV		
SerialNumb		P168					
Averaging	Time	----------	15	sec			
Units	system	----------	ENGLISH				
Staff	height	----------	0	ft			
Gauge	height	----------	0	ft			
Rated	discharge	----------	0	cfs			
Starting	edge	of	water	----	LEW		
Number	of	stations	----		11		
Total	width	----------	3.5	ft			
Total	area	----------	1.01	ft^2			
Total	discharge	----------	0.389	cfs			
Mean	velocity	----------	0.363	ft/s			
Mean	SNR	----------	30.4	dB			
Mean	std.	error	of	vel.	---	0.02	ft/s
Mean	boundary	conditions	--		0	(BEST)	
Boundary	condition	(Bnd)	--		0:00	BEST	
		1:00	GOOD				
		2:00	FAIR				
		3:00	POOR				

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	3	0	0	0	0:00	0	0	0
1	3.5	0.25	0	0.6	17:51	15	0	0.009
2	3.8	0.4	0	0.6	17:52	15	0	0.276
3	4	0.4	0	0.6	17:52	15	0	0.619
4	4.3	0.5	0	0.6	17:53	15	0	0.515
5	4.5	0.5	0	0.6	17:54	15	0	0.484
6	4.8	0.5	0	0.6	17:54	15	0	0.412
7	5	0.45	0	0.6	17:55	15	0	0.422
8	5.3	0.35	0	0.6	17:55	15	0	0.405
9	5.5	0.2	0	0.6	17:56	15	0	0.271
10	5.8	0.2	0	0.6	17:57	15	0	0.323
11	6	0.1	0	0.6	17:57	15	0	0.256
12	6.5	0	0	0	0:00	0	0	0

APPENDIX D
OK014

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0.009	0	0
48.5	45	0	0	67.64	1	0.009	0.094	0.001
27.5	10	0.03	1	67.64	1	0.276	0.1	0.028
30	1	0.02	0	67.64	1	0.619	0.1	0.062
29.6	-1	0.02	0	67.64	1	0.515	0.125	0.064
29.2	-4	0.03	0	67.64	1	0.484	0.125	0.061
29.6	-4	0.02	0	67.64	1	0.412	0.125	0.051
28.3	-5	0.03	0	67.64	1	0.422	0.112	0.047
29.2	-13	0.02	0	67.64	1	0.405	0.087	0.035
27.9	-5	0.02	0	67.64	1	0.271	0.05	0.014
27.9	4	0.02	0	67.64	1	0.323	0.05	0.016
27	-5	0.01	0	67.64	1	0.256	0.037	0.01
0	0	0	0	0	1	0.256	0	0

APPENDIX D
OK015

File	----------					
Start	Date	and	Time		7/18/2007	16:45:53
Sensor	Type		FlowTrackeHandheld		ADV	
SerialNumb		P168				
Averaging	Time	----------	15	sec		
Units	system	----------	ENGLISH			
Staff	height	----------	0	ft		
Gauge	height	----------	0	ft		
Rated	discharge	----------	0	cfs		
Starting	edge	of	water	----	LEW	
Number	of	stations	----------	23		
Total	width	----------	28.5	ft		
Total	area	----------	17.87	ft^2		
Total	discharge	----------	8.084	cfs		
Mean	velocity	----------	0.44	ft/s		
Mean	SNR	----------	17	dB		
Mean	std.	error	of	vel.	---	0.02 ft/s
Mean	boundary	conditions	--	0	(BEST)	
Boundary	condition	(Bnd)	--	0:00	BEST	
	1:00	GOOD				
	2:00	FAIR				
	3:00	POOR				

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	2	0	0	0	0:00	0	0	0
1	3	0.3	0	0.6	16:45	15	0	0.059
2	4	0.55	0	0.6	16:46	15	0	0.069
3	5	0.65	0	0.6	16:47	15	1	0.119
4	7	0.6	0	0.6	16:48	15	0	0.198
5	9	0.6	0	0.6	16:48	15	0	0.298
6	11	0.15	0	0.6	16:49	15	0	0.412
7	13	0.4	0	0.6	16:50	15	0	0.409
8	15	0.8	0	0.6	16:51	15	0	0.492
9	16	1.05	0	0.6	16:51	15	0	0.427
10	17	1	0	0.6	16:52	15	0	0.44
11	18	0.85	0	0.6	16:52	15	0	0.473
12	19	0.8	0	0.6	16:53	15	0	0.449
13	20	0.95	0	0.6	16:53	15	1	0.551
14	21	0.9	0	0.6	16:54	15	0	0.711
15	22	0.9	0	0.6	16:55	15	0	0.715
16	23	0.65	0	0.6	16:55	15	0	0.695
17	24	0.75	0	0.6	16:56	15	0	0.743
18	25	0.75	0	0.6	16:56	15	0	0.571
19	26	0.65	0	0.6	16:57	15	0	0.6
20	27	0.65	0	0.6	16:58	15	0	0.615
21	28	0.6	0	0.6	16:58	15	0	0.504
22	29	0.5	0	0.6	16:59	15	0	0.411
23	30.5	0.3	0	0.6	17:00	15	0	0.15

24	30.5	0.3	0	0	0:00	0	0	0

APPENDIX D
OK015

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0.059	0	0
18.9	13	0	0	70.11	1	0.059	0.3	0.018
15.9	23	0	0	70.14	1	0.069	0.55	0.038
18	23	0	0	70.05	1	0.119	0.975	0.116
18.4	17	0	0	70	1	0.198	1.199	0.238
17.6	11	0.01	0	69.96	1	0.298	1.199	0.357
20.2	14	0.05	0	69.93	1	0.412	0.3	0.124
17.1	-24	0.01	0	69.93	1	0.409	0.8	0.327
17.1	-18	0.01	0	69.89	1	0.492	1.2	0.59
16.7	-31	0.01	0	69.87	1	0.427	1.05	0.448
17.6	-25	0.01	0	69.85	1	0.44	1	0.44
17.1	-22	0.01	0	69.85	1	0.473	0.85	0.402
16.7	-26	0.02	0	69.85	1	0.449	0.8	0.359
16.7	-33	0.01	0	69.82	1	0.551	0.95	0.523
17.1	-14	0.01	0	69.84	1	0.711	0.9	0.64
16.7	-10	0.02	0	69.82	1	0.715	0.9	0.644
16.7	-19	0.05	0	69.82	1	0.695	0.65	0.452
16.3	-2	0.02	0	69.82	1	0.743	0.75	0.558
16.7	-12	0.02	0	69.82	1	0.571	0.75	0.428
17.1	-12	0.02	0	69.8	1	0.6	0.65	0.39
16.3	-8	0.02	0	69.82	1	0.615	0.65	0.4
16.7	-11	0.02	0	69.8	1	0.504	0.6	0.302
15.4	1	0.02	0	69.82	1	0.411	0.625	0.257
14.1	9	0.01	0	69.89	1	0.15	0.225	0.034

0	0	0	0	0	1	0.15	0	0

APPENDIX D
OK016

File	----------					
Start	Date	and	Time		7/18/2007	15:04:45
Sensor	Type		FlowTrackeHandheld		ADV	
SerialNumb		P168				
Averaging	Time	----------	15	sec		
Units	system	----------	ENGLISH			
Staff	height	----------	0	ft		
Gauge	height	----------	0	ft		
Rated	discharge	----------	0	cfs		
Starting	edge	of	water	----	REW	
Number	of	stations	----------	23		
Total	width	----------	32.5	ft		
Total	area	----------	25.92	ft^2		
Total	discharge	----------	7.788	cfs		
Mean	velocity	----------	0.297	ft/s		
Mean	SNR	----------	18.8	dB		
Mean	std.	error	of	vel.	---	0.01 ft/s
Mean	boundary	conditions	--	0	(BEST)	
Boundary	condition	(Bnd)	--	0:00	BEST	
	1:00	GOOD				
	2:00	FAIR				
	3:00	POOR				

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	2	0	0	0	0:00	0	0	0
1	3	0.8	0	0.6	15:05	15	0	0
2	4	1.2	0	0.6	15:07	15	0	0.144
3	5	1.5	0	0.6	15:08	15	0	0.214
4	6	1.7	0	0.6	15:09	15	0	0.295
5	7	1.8	0	0.6	15:11	15	0	0.309
6	8	1.7	0	0.6	15:11	15	0	0.28
7	9	1.6	0	0.6	15:12	15	0	0.36
8	10	1.75	0	0.6	15:13	15	0	0.379
9	11	1.5	0	0.6	15:14	15	0	0.377
10	12	1.4	0	0.6	15:14	15	1	0.391
11	13	1.25	0	0.6	15:15	15	0	0.3
12	14	1.1	0	0.6	15:16	15	0	0.344
13	15	1	0	0.6	15:16	15	0	0.223
14	16	0.8	0	0.6	15:17	15	0	0.319
15	17	0.6	0	0.6	15:18	15	0	0.306
16	19	0.4	0	0.6	15:19	15	1	0.086
17	21	0.4	0	0.6	15:20	15	0	0.264
18	23	0.45	0	0.6	15:21	15	0	0.372
19	25	0.4	0	0.6	15:21	15	0	0.385
20	27	0.35	0	0.6	15:22	15	0	0.401
21	29	0.35	0	0.6	15:23	15	0	0.382
22	31	0.35	0	0.6	15:23	15	0	0.375
23	33	0.3	0	0.6	15:24	15	0	0.323

24	34.5	0	0	0	0:00	0	0	0

APPENDIX D
OK016

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0	0	0
34.3	-72	0	2	68.65	1	0	0.8	0
20.2	-2	0.01	0	68.59	1	0.144	1.2	0.173
20.6	3	0.01	0	68.85	1	0.214	1.5	0.321
21	-12	0.01	0	68.88	1	0.295	1.7	0.501
19.7	4	0.02	0	68.94	1	0.309	1.8	0.557
19.7	0	0.02	0	68.99	1	0.28	1.7	0.476
18.9	-5	0.02	0	69.01	1	0.36	1.6	0.575
17.6	2	0.01	0	69.04	1	0.379	1.75	0.664
18.4	6	0.01	0	69.1	1	0.377	1.5	0.565
18	-3	0.01	0	69.12	1	0.391	1.4	0.547
17.6	6	0.02	0	69.17	1	0.3	1.25	0.374
17.6	1	0.02	0	69.21	1	0.344	1.1	0.379
17.1	5	0.01	0	69.26	1	0.223	1	0.223
18.4	0	0.01	0	69.3	1	0.319	0.8	0.255
17.6	-2	0.01	0	69.31	1	0.306	0.9	0.276
22.7	6	0.01	0	69.4	1	0.086	0.8	0.068
17.6	7	0.01	0	69.46	1	0.264	0.8	0.212
17.6	0	0.01	0	69.57	1	0.372	0.9	0.335
15.9	-3	0.01	0	69.57	1	0.385	0.8	0.308
15.4	-19	0.01	0	69.67	1	0.401	0.699	0.28
16.3	-15	0.01	0	69.82	1	0.382	0.699	0.267
15	-10	0.01	0	70.07	1	0.375	0.699	0.262
14.1	-9	0.01	0	70.56	1	0.323	0.525	0.169

0	0	0	0	0	1	0.323	0	0

APPENDIX D
OK017

File	----------						
Start	Date	and	Time		7/18/2007	13:36:27	
Sensor	Type		FlowTracke	Handheld	ADV		
SerialNumb		P168					
Averaging	Time	----------	15	sec			
Units	system	----------	ENGLISH				
Staff	height	----------	0	ft			
Gauge	height	----------	0	ft			
Rated	discharge	----------	0	cfs			
Starting	edge	of	water	----	LEW		
Number	of	stations	--------	18			
Total	width	----------	32	ft			
Total	area	----------	30.75	ft^2			
Total	discharge	----------	10.349	cfs			
Mean	velocity	----------	0.312	ft/s			
Mean	SNR	----------	27.7	dB			
Mean	std.	error	of	vel.	---	0.01	ft/s
Mean	boundary	conditions	--	0	(BEST)		
Boundary	condition	(Bnd)	--	0:00	BEST		
	1:00	GOOD					
	2:00	FAIR					
	3:00	POOR					

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	2	0	0	0	0:00	0	0	0
1	3.5	0.2	0	0.6	13:36	15	0	0.024
2	5	0.5	0	0.6	13:37	15	0	0.162
3	6.5	0.7	0	0.6	13:37	15	0	0.364
4	8	0.75	0	0.6	13:38	15	0	0.365
5	9.5	1.2	0	0.6	13:39	15	0	0.481
6	11	1.25	0	0.6	13:39	15	0	0.485
7	12.5	1.3	0	0.6	13:40	15	0	0.451
8	14	1.2	0	0.6	13:41	15	0	0.482
9	15.5	1.25	0	0.6	13:42	15	0	0.493
10	17	1.35	0	0.6	13:42	15	0	0.412
11	18.5	1.5	0	0.6	13:43	15	0	0.428
12	20	1.7	0	0.6	13:44	15	0	0.287
13	21.5	2	0	0.6	13:44	15	0	0.312
14	23	1.6	0	0.6	13:45	15	0	0.224
15	24.5	1.3	0	0.6	13:45	15	1	0.169
16	26	0.9	0	0.6	13:46	15	0	0.138
17	27.5	0.7	0	0.6	13:47	15	0	0.172
18	30	0.4	0	0.6	13:48	15	0	0.17
19	34	0	0	0	0:00	0	0	0

APPENDIX D
OK017

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0.024	0	0
30.9	14	0	0	66.9	1	0.024	0.3	0.007
27.5	8	0.01	0	66.92	1	0.162	0.75	0.122
27	14	0.01	0	66.96	1	0.364	1.05	0.382
27.9	1	0.01	0	66.99	1	0.365	1.125	0.41
27.5	5	0.02	0	67.05	1	0.481	1.8	0.866
27.9	-13	0.01	0	67.06	1	0.485	1.875	0.909
27.5	-18	0.02	0	67.08	1	0.451	1.95	0.88
27.9	-18	0.01	0	67.15	1	0.482	1.8	0.867
27	-17	0.01	0	67.15	1	0.493	1.875	0.924
27	-12	0.02	0	67.17	1	0.412	2.025	0.834
27.5	-20	0.01	0	67.19	1	0.428	2.25	0.963
27.5	-27	0.02	0	67.21	1	0.287	2.55	0.733
27	-18	0.01	0	67.23	1	0.312	3	0.937
27.5	-13	0.01	0	67.23	1	0.224	2.4	0.538
27.9	-5	0.01	0	67.26	1	0.169	1.95	0.329
27.5	-17	0.01	0	67.28	1	0.138	1.35	0.186
27.5	-8	0.01	0	67.28	1	0.172	1.4	0.241
27.9	3	0	0	67.3	1	0.17	1.3	0.22
0	0	0	0	0	1	0.17	0	0

APPENDIX D
OK018

File	----------					
Start	Date	and	Time		7/18/2007	9:08:53
Sensor	Type		FlowTracke	Handheld	ADV	
SerialNumb		P168				
Averaging	Time	----------	15	sec		
Units	system	----------	ENGLISH			
Staff	height	----------	0	ft		
Gauge	height	----------	0	ft		
Rated	discharge	----------	0	cfs		
Starting	edge	of	water	----	LEW	
Number	of	stations	--------	27		
Total	width	----------	28.5	ft		
Total	area	----------	26.17	ft^2		
Total	discharge	----------	12.052	cfs		
Mean	velocity	----------	0.435	ft/s		
Mean	SNR	----------	28.1	dB		
Mean	std.	error	of	vel.	---	0.02 ft/s
Mean	boundary	conditions	--	0	(BEST)	
Boundary	condition	(Bnd)	--	0:00	BEST	
	1:00	GOOD				
	2:00	FAIR				
	3:00	POOR				

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	2	0	0	0	0:00	0	0	0
1	3	0.3	0	0.6	9:08	15	0	0.125
2	4	0.3	0	0.6	9:09	15	1	0.253
3	5	0.75	0	0.6	9:10	15	0	0.15
4	6	0.95	0	0.6	9:11	15	0	0.184
5	7	1.15	0	0.6	9:12	15	0	0.241
6	8	1.25	0	0.6	9:12	15	0	0.201
7	9	1.3	0	0.6	9:13	15	0	0.343
8	10	1.3	0	0.6	9:13	15	0	0.604
9	11	1.2	0	0.6	9:14	15	0	0.347
10	12	1.35	0	0.6	9:14	15	0	0.533
11	13	1.4	0	0.6	9:15	15	0	0.463
12	14	1.35	0	0.6	9:16	15	0	0.432
13	15	1.3	0	0.6	9:16	15	0	0.609
14	16	1.3	0	0.6	9:17	15	0	0.578
15	17	1.1	0	0.6	9:17	15	0	0.497
16	18	1	0	0.6	9:18	15	0	0.674
17	19	0.95	0	0.6	9:18	15	0	0.733
18	20	0.9	0	0.6	9:19	15	0	0.687
19	21	0.9	0	0.6	9:19	15	1	0.603
20	22	0.85	0	0.6	9:20	15	0	0.589
21	23	0.85	0	0.6	9:21	15	0	0.568
22	24	0.9	0	0.6	9:22	15	0	0.609
23	25	0.9	0	0.6	9:22	15	0	0.515

APPENDIX D
OK018

24	26	0.9	0	0.6	9:23	15	0	0.504
25	27	0.75	0	0.6	9:23	15	0	0.345
26	28	0.6	0	0.6	9:24	15	0	0.301
27	29	0.3	0	0.6	9:24	15	0	0.049
28	30.5	0	0	0	0:00	0	0	0

APPENDIX D
OK018

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0.125	0	0
29.6	-1	0	1	63.43	1	0.125	0.3	0.037
27.9	13	0.02	0	63.43	1	0.253	0.3	0.076
28.3	-23	0.01	0	63.43	1	0.15	0.75	0.112
28.3	17	0.01	0	63.43	1	0.184	0.95	0.175
27.9	-1	0.02	0	63.43	1	0.241	1.15	0.278
27.9	5	0.01	0	63.45	1	0.201	1.25	0.251
27.9	13	0.02	0	63.43	1	0.343	1.3	0.445
28.3	9	0.02	0	63.45	1	0.604	1.3	0.785
27.9	2	0.02	0	63.45	1	0.347	1.2	0.416
28.3	5	0.02	0	63.46	1	0.533	1.35	0.72
27.9	6	0.02	0	63.46	1	0.463	1.4	0.648
28.3	4	0.01	0	63.5	1	0.432	1.35	0.583
27.9	6	0.02	0	63.5	1	0.609	1.3	0.791
28.3	0	0.02	0	63.55	1	0.578	1.3	0.752
28.3	0	0.02	0	63.55	1	0.497	1.1	0.547
28.3	4	0.02	0	63.57	1	0.674	1	0.674
28.3	2	0.02	0	63.59	1	0.733	0.95	0.696
28.3	-1	0.02	0	63.61	1	0.687	0.9	0.618
28.3	3	0.02	0	63.63	1	0.603	0.9	0.543
28.3	-2	0.01	0	63.63	1	0.589	0.85	0.501
28.3	8	0.02	0	63.66	1	0.568	0.85	0.483
27.9	6	0.02	0	63.66	1	0.609	0.9	0.548
28.3	8	0.02	0	63.66	1	0.515	0.9	0.464

APPENDIX D
OK018

27.9	6	0.02	0	63.68	1	0.504	0.9	0.454
27.5	1	0.02	0	63.68	1	0.345	0.75	0.259
27.5	1	0.02	0	63.7	1	0.301	0.6	0.18
27.5	-39	0.02	0	63.73	1	0.049	0.375	0.018
0	0	0	0	0	1	0.049	0	0

APPENDIX D
OK019
7/17/07

File	----------						
Start	Date	and	Time		7/17/2007	11:07:44	
Sensor	Type		FlowTracke	Handheld	ADV		
SerialNumb		P168					
Averaging	Time	----------	15	sec			
Units	system	----------	ENGLISH				
Staff	height	----------	0	ft			
Gauge	height	----------	0	ft			
Rated	discharge	----------	0	cfs			
Starting	edge	of	water	----	LEW		
Number	of	stations	----------	32			
Total	width	----------	128	ft			
Total	area	----------	212.26	ft^2			
Total	discharge	----------	170.633	cfs			
Mean	velocity	----------	0.731	ft/s			
Mean	SNR	----------	15.4	dB			
Mean	std.	error	of	vel.	---	0.05	ft/s
Mean	boundary	conditions	--	0	(BEST)		
Boundary	condition	(Bnd)	--	0:00	BEST		
	1:00	GOOD					
	2:00	FAIR					
	3:00	POOR					

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	0	0	0	0	0:00	0	0	0
1	2	0.5	0	0.6	11:07	15	0	0.156
2	6	0.8	0	0.6	11:09	15	0	0.537
3	10	1.1	0	0.6	11:10	15	0	0.583
4	14	1.2	0	0.6	11:11	15	0	0.414
5	18	1.2	0	0.6	11:11	15	0	0.47
6	22	1.85	0	0.6	11:13	15	0	0.601
7	26	2	0	0.6	11:14	15	0	0.786
8	30	2.2	0	0.6	11:15	15	0	0.934
9	34	2.3	0	0.6	11:16	15	0	0.876
10	38	2.3	0	0.6	11:17	15	0	0.871
11	42	1.9	0	0.6	11:18	15	0	0.785
12	46	1.5	0	0.6	11:18	15	0	0.914
13	50	2.5	0	0.2	11:25	15	0	1.324
13	50	2.5	0	0.8	11:26	15	0	0.678
14	54	2.5	0	0.2	11:29	15	0	1.142
14	54	2.5	0	0.8	11:28	15	0	0.028
15	58	1.85	0	0.6	11:30	15	0	1.233
16	62	2.15	0	0.6	11:31	15	1	1.353
17	66	2.15	0	0.6	11:32	15	0	1.128
18	70	1.5	0	0.6	11:32	15	0	1.343
19	74	2.6	0	0.2	11:34	15	0	1.2
19	74	2.6	0	0.8	11:34	15	0	1.041
20	78	2.3	0	0.6	11:35	15	0	0.88

APPENDIX D
OK019
7/17/07

21	82	2.3	0	0.6	11:36	15	0	0.651
22	86	2.1	0	0.6	11:37	15	0	0.784
23	90	1.7	0	0.6	11:37	15	0	0.805
24	94	1.2	0	0.6	11:38	15	0	0.698
25	98	0.8	0	0.6	11:39	15	0	0.575
26	102	1.15	0	0.6	11:40	15	0	0.584
27	106	1	0	0.6	11:40	15	0	0.225
28	110	1	0	0.6	11:42	15	0	0.67
29	114	2	0	0.6	11:43	15	0	0.202
30	118	2	0	0.6	11:43	15	0	1.03
31	121	1.4	0	0.6	11:45	15	0	0.598
32	125	0.65	0	0.6	11:47	15	0	0.001
33	128	0	0	0	0:00	0	0	0

APPENDIX D
OK019
7/17/07

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0.156	0	0
20.6	17	0.02	0	72.18	1	0.156	1.5	0.234
18.4	-3	0.01	0	72.54	1	0.537	3.199	1.719
18.9	-15	0.02	0	72.61	1	0.583	4.399	2.563
18	-18	0.03	0	72.72	1	0.414	4.799	1.986
18.9	-10	0.03	0	72.82	1	0.47	4.799	2.256
18	7	0.02	0	72.95	1	0.601	7.399	4.447
18.9	5	0.02	0	73.04	1	0.786	8	6.286
18.4	-5	0.02	0	73.09	1	0.934	8.799	8.222
18	-3	0.03	0	73.33	1	0.876	9.199	8.059
17.1	2	0.02	0	73.58	1	0.871	9.199	8.013
16.7	-13	0.1	0	73.71	1	0.785	7.6	5.967
17.1	4	0.21	0	73.8	1	0.914	6	5.482
15.4	7	0.02	0	74.03	1	1.001	10	10.01
16.3	-19	0.06	0	74.1	0	0	0	0
15	2	0.05	0	74.23	1	0.585	10	5.85
33.1	-6	0.01	2	74.32	0	0	0	0
14.6	14	0.04	0	74.5	1	1.233	7.399	9.125
14.1	5	0.05	0	74.59	1	1.353	8.6	11.638
14.6	10	0.02	0	74.75	1	1.128	8.6	9.697
12.9	21	0.03	0	74.79	1	1.343	6	8.057
12.4	15	0.02	0	74.86	1	1.121	10.399	11.654
13.3	16	0.04	0	74.88	0	0	0	0
12.9	27	0.03	0	74.93	1	0.88	9.199	8.095

APPENDIX D
OK019
7/17/07

12.4	35	0.02	0	74.95	1	0.651	9.199	5.991
12.4	26	0.03	0	74.95	1	0.784	8.399	6.589
10.7	21	0.05	0	74.97	1	0.805	6.799	5.472
11.6	6	0.09	0	75	1	0.698	4.799	3.352
10.3	10	0.06	0	75.04	1	0.575	3.199	1.839
5.1	30	0.17	2	75.04	1	0.584	4.6	2.686
11.6	39	0.05	0	75.06	1	0.225	4	0.899
6	10	0.09	0	75.09	1	0.67	4	2.681
8.1	-7	0.03	0	75.11	1	0.202	8	1.619
8.1	7	0.04	0	75.15	1	1.03	7	7.211
9	-18	0.06	0	75.18	1	0.598	4.9	2.929
46.8	79	0.01	0	75.29	1	0.001	2.275	0.003
0	0	0	0	0	1	0.001	0	0
								170.631

APPENDIX D
OK019
7/19/07

File	----------						
Start	Date	and	Time		7/19/2007	11:30:32	
Sensor	Type		FlowTracke	Handheld	ADV		
SerialNumb		P168					
Averaging	Time	----------	15	sec			
Units	system	----------	ENGLISH				
Staff	height	----------	0	ft			
Gauge	height	----------	0	ft			
Rated	discharge	----------	0	cfs			
Starting	edge	of	water	----	LEW		
Number	of	stations	----------	34			
Total	width	----------	129	ft			
Total	area	----------	238.01	ft^2			
Total	discharge	----------	233.613	cfs			
Mean	velocity	----------	0.926	ft/s			
Mean	SNR	----------	15.5	dB			
Mean	std.	error	of	vel.	---	0.04	ft/s
Mean	boundary	conditions	--	0	(BEST)		
Boundary	condition	(Bnd)	--	0:00	BEST		
	1:00	GOOD					
	2:00	FAIR					
	3:00	POOR					

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	2	0	0	0	0:00	0	0	0
1	6	0.9	0	0.6	11:30	15	0	0.362
2	10	1.1	0	0.6	11:31	15	0	0.634
3	14	1.4	0	0.6	11:31	15	0	0.674
4	18	1.3	0	0.6	11:32	15	0	0.503
5	22	1.5	0	0.6	11:33	15	0	0.895
6	25	1.65	0	0.6	11:34	15	0	0.612
7	28	2.1	0	0.6	11:34	15	0	0.824
8	32	2.35	0	0.6	11:35	15	0	1.078
9	36	2.6	0	0.2	11:37	15	0	1.306
9	36	2.6	0	0.8	11:37	15	0	0.751
10	40	2.5	0	0.2	11:39	15	0	1.23
10	40	2.5	0	0.8	11:38	15	0	0.731
11	44	2.05	0	0.6	11:40	15	0	1.418
12	48	1.6	0	0.6	11:41	15	0	0.907
13	51	1.3	0	0.6	11:42	15	0	1.176
14	53	2.8	0	0.2	11:44	15	0	1.5
14	53	2.8	0	0.8	11:44	15	0	0.781
15	55	3.2	0	0.2	11:46	15	0	1.364
15	55	3.2	0	0.8	11:45	15	0	0.743
16	57	1.9	0	0.6	11:47	15	0	0.945
17	61	2.2	0	0.6	11:48	15	0	1.361
18	65	2.35	0	0.6	11:49	15	0	1.54
19	69	2.4	0	0.6	11:50	15	0	1.238

APPENDIX D
OK019
7/19/07

20	72	1.35	0	0.6	11:50	15	0	1.482
21	76	2.8	0	0.2	11:52	15	0	1.367
21	76	2.8	0	0.8	11:52	15	0	0.968
22	80	2.6	0	0.2	11:53	15	0	1.219
22	80	2.6	0	0.8	11:53	15	0	0.95
23	84	2.5	0	0.2	11:54	15	0	0.92
23	84	2.5	0	0.8	11:55	15	0	0.716
24	88	2.3	0	0.6	11:56	15	0	1.069
25	92	1.8	0	0.6	11:56	15	0	0.865
26	96	1.4	0	0.6	11:57	15	0	1.122
27	100	1.4	0	0.6	11:58	15	0	0.494
28	105	1.2	0	0.6	11:59	15	0	1.304
29	110	1.8	0	0.6	11:59	15	0	0.619
30	115	2.4	0	0.6	12:00	15	0	1.143
31	118	2.25	0	0.6	12:01	15	0	0.737
32	121	2.1	0	0.6	12:02	15	0	1.085
33	125	1.35	0	0.6	12:04	15	0	0.09
34	129	0.6	0	0.6	12:05	15	1	0.033
35	131	0	0	0	0:00	0	0	0

APPENDIX D
OK019
7/19/07

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0.362	0	0
18.4	9	0.01	0	73.92	1	0.362	3.6	1.303
18.4	0	0.02	0	74.01	1	0.634	4.399	2.79
18.4	-9	0.02	0	74.1	1	0.674	5.6	3.775
18	8	0.02	0	74.3	1	0.503	5.199	2.613
18	10	0.03	0	74.41	1	0.895	5.25	4.697
18.4	-1	0.03	0	74.5	1	0.612	4.95	3.027
18.9	1	0.02	0	74.61	1	0.824	7.349	6.059
18	-12	0.03	0	74.79	1	1.078	9.399	10.13
18	-4	0.02	0	75.04	1	1.029	10.399	10.699
18.4	-2	0.05	0	75.02	0	0	0	0
17.1	-5	0.02	0	75.42	1	0.98	10	9.803
17.1	-6	0.03	0	75.49	0	0	0	0
16.7	0	0.03	0	75.65	1	1.418	8.199	11.624
18	0	0.09	0	75.63	1	0.907	5.599	5.077
16.7	-3	0.08	0	75.78	1	1.176	3.25	3.821
16.7	5	0.04	0	75.79	1	1.141	5.6	6.388
17.1	-3	0.06	0	75.9	0	0	0	0
16.7	7	0.04	0	75.9	1	1.053	6.4	6.74
18.4	8	0.09	0	75.97	0	0	0	0
16.7	-1	0.07	0	76.03	1	0.945	5.7	5.386
16.3	12	0.06	0	76.12	1	1.361	8.799	11.972
15.9	8	0.06	0	76.21	1	1.54	9.399	14.478
16.3	17	0.04	0	76.26	1	1.238	8.4	10.395

APPENDIX D
OK019
7/19/07

15.9	16	0.05	0	76.28	1	1.482	4.724	6.999
15.9	22	0.03	0	76.33	1	1.167	11.199	13.07
15.9	24	0.06	0	76.35	0	0	0	0
15	19	0.04	0	76.39	1	1.085	10.399	11.279
15.9	25	0.06	0	76.37	0	0	0	0
15.4	9	0.05	0	76.42	1	0.818	10	8.179
12.9	26	0.12	0	76.44	0	0	0	0
15.4	22	0.04	0	76.48	1	1.069	9.199	9.83
15	22	0.05	0	76.5	1	0.865	7.199	6.224
14.1	1	0.05	0	76.53	1	1.122	5.6	6.285
13.3	-2	0.06	0	76.55	1	0.494	6.3	3.113
12	11	0.05	0	76.57	1	1.304	5.999	7.822
11.6	16	0.06	0	76.62	1	0.619	8.999	5.568
12	12	0.04	0	76.6	1	1.143	9.6	10.976
11.1	3	0.05	0	76.62	1	0.737	6.75	4.976
11.1	-3	0.05	0	76.64	1	1.085	7.349	7.971
9.4	0	0.02	0	76.69	1	0.09	5.399	0.484
9.4	-62	0.02	0	76.75	1	0.033	1.799	0.06
0	0	0	0	0	1	0.033	0	0

APPENDIX D
OK019D

File	----------						
Start	Date	and	Time		7/17/2007	11:54:05	
Sensor	Type		FlowTrack	eHandheld	ADV		
SerialNumb		P168					
Averaging	Time	----------	15	sec			
Units	system	----------	ENGLISH				
Staff	height	----------	0	ft			
Gauge	height	----------	0	ft			
Rated	discharge	----------	0	cfs			
Starting	edge	of	water	----	LEW		
Number	of	stations	----------		32		
Total	width	----------	128	ft			
Total	area	----------	216.58	ft^2			
Total	discharge	----------	168.732	cfs			
Mean	velocity	----------	0.717	ft/s			
Mean	SNR	----------	15.8	dB			
Mean	std.	error	of	vel.	---	0.04	ft/s
Mean	boundary	conditions	--		0	(BEST)	
Boundary	condition	(Bnd)	--		0:00	BEST	
	1:00	GOOD					
	2:00	FAIR					
	3:00	POOR					

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	130	0	0	0	0:00	0	0	0
1	127	0.6	0	0.6	11:54	15	0	0.001
2	123	1.4	0	0.6	11:55	15	1	0.213
3	120	2	0	0.6	11:55	15	0	0.947
4	116	2	0	0.6	11:56	15	1	0.244
5	112	1.9	0	0.6	11:57	15	0	0.824
6	108	0.9	0	0.6	11:57	15	1	0.127
7	104	1.2	0	0.6	11:58	15	0	0.558
8	100	1.1	0	0.6	11:59	15	0	0.419
9	96	1.2	0	0.6	11:59	15	0	0.753
10	92	2.2	0	0.6	12:00	15	0	0.999
11	88	1.9	0	0.6	12:01	15	0	0.756
12	84	2.35	0	0.6	12:01	15	0	0.62
13	80	2.45	0	0.6	12:02	15	0	0.914
14	76	2.4	0	0.6	12:03	15	0	1.055
15	72	1.5	0	0.6	12:03	15	0	1.114
16	68	2.1	0	0.6	12:04	15	0	1.064
17	64	2.3	0	0.6	12:04	15	0	1.18
18	60	2.05	0	0.6	12:05	15	0	1.07
19	56	2.9	0	0.2	12:07	15	0	1.217
19	56	2.9	0	0.8	12:08	15	0	0.32
20	52	2	0	0.6	12:08	15	0	0.819
21	48	1.2	0	0.6	12:09	15	1	1.299
22	44	1.4	0	0.6	12:10	15	0	1.287

APPENDIX D
OK019D

23	40	2	0	0.6	12:11	15	0	0.81
24	36	2.5	0	0.2	12:11	15	0	1.015
24	36	2.5	0	0.8	12:12	15	0	0.52
25	32	2.2	0	0.6	12:13	15	0	0.952
26	28	2	0	0.6	12:13	15	0	0.527
27	24	1.85	0	0.6	12:14	15	0	0.568
28	20	1.2	0	0.6	12:14	15	0	0.614
29	16	1.3	0	0.6	12:15	15	0	0.426
30	12	1.1	0	0.6	12:16	15	0	0.519
31	8	1	0	0.6	12:16	15	0	0.418
32	4	0.6	0	0.6	12:17	15	0	0.327
33	2	0	0	0	0:00	0	0	0

APPENDIX D
OK019D

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0.001	0	0
53.3	63	0	0	75.2	1	0.001	2.099	0.001
18.9	-6	0.07	0	75.22	1	0.213	4.9	1.045
8.5	5	0.04	0	75.22	1	0.947	7	6.628
7.7	-7	0.03	0	75.22	1	0.244	8	1.95
7.7	15	0.05	0	75.18	1	0.824	7.6	6.261
36.5	6	0.09	0	75.2	1	0.127	3.6	0.457
6.8	17	0.05	0	75.24	1	0.558	4.799	2.678
10.3	4	0.06	0	75.24	1	0.419	4.399	1.844
9.8	-1	0.04	0	75.25	1	0.753	4.799	3.614
10.3	9	0.04	0	75.25	1	0.999	8.799	8.788
10.7	14	0.03	0	75.27	1	0.756	7.6	5.745
12	30	0.04	0	75.29	1	0.62	9.399	5.831
10.7	19	0.04	0	75.29	1	0.914	9.799	8.957
12.9	19	0.03	0	75.31	1	1.055	9.6	10.132
12.4	28	0.04	0	75.29	1	1.114	6	6.681
13.3	14	0.03	0	75.22	1	1.064	8.399	8.936
14.1	6	0.07	0	75.02	1	1.18	9.199	10.859
14.6	15	0.04	0	74.84	1	1.07	8.199	8.77
15.4	2	0.08	0	74.68	1	0.768	11.6	8.913
13.7	-49	0.06	0	74.77	0	0	0	0
15.9	20	0.05	0	74.62	1	0.819	8	6.551
16.3	15	0.04	0	74.43	1	1.299	4.799	6.232
16.7	-12	0.02	0	74.41	1	1.287	5.6	7.205

APPENDIX D
OK019D

16.3	-16	0.02	0	74.32	1	0.81	8	6.478
16.7	-9	0.03	0	74.16	1	0.768	10	7.677
18	-3	0.06	0	74.17	0	0	0	0
17.1	-6	0.03	0	74.07	1	0.952	8.799	8.378
18.4	-1	0.03	0	73.94	1	0.527	8	4.213
18	1	0.02	0	73.9	1	0.568	7.399	4.202
17.1	-21	0.01	0	73.83	1	0.614	4.799	2.944
17.1	-13	0.03	0	73.78	1	0.426	5.199	2.216
17.1	-15	0.01	0	73.69	1	0.519	4.399	2.283
18	-4	0.03	0	73.63	1	0.418	4	1.673
15.9	4	0.01	0	73.44	1	0.327	1.799	0.589
0	0	0	0	0	1	0.327	0	0

APPENDIX D
OK021

File	----------						
Start	Date	and	Time		7/18/2007	12:48:12	
Sensor	Type		FlowTracke	Handheld	ADV		
SerialNumb		P168					
Averaging	Time	----------	15	sec			
Units	system	----------	ENGLISH				
Staff	height	----------	0	ft			
Gauge	height	----------	0	ft			
Rated	discharge	----------	0	cfs			
Starting	edge	of	water	----	LEW		
Number	of	stations	----------	19			
Total	width	----------	10	ft			
Total	area	----------	7.31	ft^2			
Total	discharge	----------	2.272	cfs			
Mean	velocity	----------	0.29	ft/s			
Mean	SNR	----------	32.6	dB			
Mean	std.	error	of	vel.	---	0.02	ft/s
Mean	boundary	conditions	--	0	(BEST)		
Boundary	condition	(Bnd)	--	0:00	BEST		
	1:00	GOOD					
	2:00	FAIR					
	3:00	POOR					

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	6	0.25	0	0	0:00	0	0	0
1	6	0.25	0	0.6	12:48	15	1	0
2	6.5	0.6	0	0.6	12:49	15	0	-0.04
3	7	0.8	0	0.6	12:50	15	0	0.175
4	7.5	0.7	0	0.6	12:51	15	0	0.258
5	8	0.8	0	0.6	12:51	15	0	0.362
6	8.5	0.85	0	0.6	12:52	15	0	0.35
7	9	0.9	0	0.6	12:53	15	0	0.446
8	9.5	0.9	0	0.6	12:53	15	0	0.396
9	10	0.85	0	0.6	12:54	15	0	0.497
10	10.5	0.9	0	0.6	12:54	15	0	0.212
11	11	0.9	0	0.6	12:55	15	0	0.068
12	11.5	0.8	0	0.6	12:56	15	0	0.436
13	12	0.8	0	0.6	12:56	15	0	0.467
14	12.5	0.85	0	0.6	12:57	15	0	0.421
15	13	0.9	0	0.6	12:57	15	0	0.395
16	13.5	0.9	0	0.6	12:58	15	0	0.356
17	14	0.6	0	0.6	12:59	15	0	0.364
18	14.5	0.7	0	0.6	12:59	15	0	0.219
19	15	0.5	0	0.6	13:00	15	0	0.134
20	16	0	0	0	0:00	0	0	0

APPENDIX D
OK021

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0	0	0
44.2	-90	0	0	64.26	1	0	0.063	0
32.6	-64	0.01	0	64.31	1	-0.04	0.3	-0.012
31.3	42	0.01	0	64.35	1	0.175	0.4	0.07
31.8	15	0.02	0	64.36	1	0.258	0.35	0.09
32.2	16	0.03	0	64.4	1	0.362	0.4	0.145
31.8	9	0.03	0	64.44	1	0.35	0.425	0.149
32.2	-7	0.01	0	64.44	1	0.446	0.45	0.2
32.2	7	0.03	0	64.44	1	0.396	0.45	0.178
31.8	-13	0.02	0	64.45	1	0.497	0.425	0.211
32.2	-14	0.06	0	64.47	1	0.212	0.45	0.096
31.8	48	0.03	0	64.49	1	0.068	0.45	0.031
31.3	7	0.01	0	64.51	1	0.436	0.4	0.175
31.8	8	0.02	0	64.51	1	0.467	0.4	0.187
31.8	10	0.01	0	64.53	1	0.421	0.425	0.179
32.2	7	0.01	0	64.53	1	0.395	0.45	0.178
31.8	-1	0.01	0	64.53	1	0.356	0.45	0.16
31.3	0	0.02	0	64.54	1	0.364	0.3	0.109
31.8	6	0.02	0	64.62	1	0.219	0.35	0.077
33.5	0	0.01	0	64.65	1	0.134	0.375	0.05
0	0	0	0	0	1	0.134	0	0

APPENDIX D
OK024a

File	----------						
Start	Date	and	Time		7/19/2007	14:25:57	
Sensor	Type		FlowTrackeHandheld		ADV		
SerialNumb		P168					
Averaging	Time	----------		15	sec		
Units	system	----------	ENGLISH				
Staff	height	----------		0	ft		
Gauge	height	----------		0	ft		
Rated	discharge	----------		0	cfs		
Starting	edge	of	water	----	LEW		
Number	of	stations	----		3		
Total	width	----------		1	ft		
Total	area	----------		0.12	ft^2		
Total	discharge	----------		0.001	cfs		
Mean	velocity	----------		0.006	ft/s		
Mean	SNR	----------		41.4	dB		
Mean	std.	error	of	vel.	---	0	ft/s
Mean	boundary	conditions	--	0	(BEST)		
Boundary	condition	(Bnd)	--	0:00	BEST		
	1:00	GOOD					
	2:00	FAIR					
	3:00	POOR					

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	2	0	0	0	0:00	0	0	0
1	2.3	0.1	0	0.6	14:26	15	0	0
2	2.5	0.15	0	0.6	14:29	15	0	0.019
3	2.8	0.15	0	0.6	14:30	15	0	-0.001
4	3	0.15	0	0	0:00	0	0	0

APPENDIX D
OK024a

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0	0	0
45.5	-90	0	0	72.32	1	0	0.025	0
32.6	6	0.01	1	71.35	1	0.019	0.037	0.001
46	18	0	0	70.12	1	-0.001	0.037	0
0	0	0	0	0	1	-0.001	0.02	0

APPENDIX D
OK024b

File	----------						
Start	Date	and	Time		7/19/2007	14:35:21	
Sensor	Type		FlowTracke	Handheld	ADV		
SerialNumb		P168					
Averaging	Time	----------	15	sec			
Units	system	----------	ENGLISH				
Staff	height	----------	0	ft			
Gauge	height	----------	0	ft			
Rated	discharge	----------	0	cfs			
Starting	edge	of	water	----	LEW		
Number	of	stations	----------	18			
Total	width	----------	5.3	ft			
Total	area	----------	4.12	ft^2			
Total	discharge	----------	0.036	cfs			
Mean	velocity	----------	0.001	ft/s			
Mean	SNR	----------	28.5	dB			
Mean	std.	error	of	vel.	---	0.01	ft/s
Mean	boundary	conditions	--	0	(BEST)		
Boundary	condition	(Bnd)	--	0:00	BEST		
	1:00	GOOD					
	2:00	FAIR					
	3:00	POOR					

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	1.5	0	0	0	0:00	0	0	0
1	1.8	0.1	0	0.6	14:35	15	0	0.001
2	2	0.2	0	0.6	14:35	15	0	0.006
3	2.3	0.25	0	0.6	14:36	15	1	-0.015
4	2.5	0.5	0	0.6	14:37	15	1	0.002
5	2.8	0.75	0	0.6	14:38	15	0	-0.037
6	3	0.75	0	0.6	14:39	15	0	-0.063
7	3.3	0.85	0	0.6	14:40	15	0	-0.048
8	3.5	1	0	0.6	14:40	15	0	0.005
9	3.8	1.1	0	0.6	14:41	15	0	0.018
10	4	1.2	0	0.6	14:42	15	0	0.049
11	4.3	1.2	0	0.6	14:43	15	0	0.031
12	4.5	1.4	0	0.6	14:44	15	0	0.062
13	4.8	1.4	0	0.6	14:45	15	0	0.028
14	5	1.35	0	0.6	14:45	15	0	0.095
15	5.3	1.25	0	0.6	14:46	15	0	0.047
16	5.5	1.1	0	0.6	14:48	15	0	-0.051
17	5.8	0.9	0	0.6	14:48	15	0	-0.056
18	6	0.6	0	0.6	14:49	15	0	-0.056
19	6.8	0	0	0	0:00	0	0	0

APPENDIX D
OK024b

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0	1	0.001	0	0
9.4	34	0	0	70.12	1	0.001	0.025	0
26.2	50	0.01	1	70.16	1	0.006	0.05	0
18.9	34	0.02	0	70.16	1	-0.015	0.063	-0.001
15.4	73	0	2	70.27	1	0.002	0.125	0
31.3	14	0.01	0	70.34	1	-0.037	0.188	-0.007
32.2	22	0	0	70.48	1	-0.063	0.188	-0.012
30.5	11	0	0	70.52	1	-0.048	0.212	-0.01
30	74	0.01	0	70.48	1	0.005	0.25	0.001
30	-29	0.01	0	70.45	1	0.018	0.275	0.005
32.6	20	0.01	0	70.43	1	0.049	0.3	0.015
33.5	-19	0.01	0	70.41	1	0.031	0.3	0.009
30.5	-49	0.01	0	70.38	1	0.062	0.35	0.022
28.8	10	0.01	0	70.36	1	0.028	0.35	0.01
28.8	-21	0.01	0	70.36	1	0.095	0.337	0.032
29.2	-40	0.01	0	70.38	1	0.047	0.313	0.015
36.1	7	0.01	0	70.43	1	-0.051	0.275	-0.014
33.5	-8	0	0	70.39	1	-0.056	0.225	-0.013
35.6	2	0	0	70.32	1	-0.056	0.3	-0.017
0	0	0	0	0	1	-0.056	0	0

APPENDIX D
OK024c

File	----------						
Start	Date	and	Time		7/19/2007	14:55:32	
Sensor	Type		FlowTrackeHandheld		ADV		
SerialNumb		P168					
Averaging	Time	----------		15	sec		
Units	system	----------	ENGLISH				
Staff	height	----------		0	ft		
Gauge	height	----------		0	ft		
Rated	discharge	----------		0	cfs		
Starting	edge	of	water	----	LEW		
Number	of	stations	----		1		
Total	width	----------		0.5	ft		
Total	area	----------		0.06	ft^2		
Total	discharge	----------		0.082	cfs		
Mean	velocity	----------		1.458	ft/s		
Mean	SNR	----------		39.9	dB		
Mean	std.	error	of	vel.	---	0.84	ft/s
Mean	boundary	conditions	--	0	(BEST)		
Boundary	condition	(Bnd)	--	0:00	BEST		
	1:00	GOOD					
	2:00	FAIR					
	3:00	POOR					

ST.	Loc. (ft)	Depth (ft)	IceD (ft)	MDep (*D)	Clock (ft/s)	Npts (dB)	Spike (deg)	Vel (ft/s)
0	0	0	0	0	0:00	0	0	0
1	0.3	0.22	0	0.6	14:56	15	0	1.458
2	0.5	0	0	0	0:00	0	0	0

APPENDIX D
OK024c

SNR (degF)	Angle Fact	Verr (ft/s)	Bnd (ft^2)	Temp (cfs)	Corr	MeanV	Area	Flow
0	0	0	0	0		11.458	0	0
39.9	25	0.84	0	70.95		1 1.458	0.056	0.082
0	0	0	0	0		11.458	0	0

APPENDIX D
OK024weir

Improvised dam w/ 60° V-notch weir:

60° V-notch weir
Notch height = 0.71'
Pool below top of weir: 0.35'
Head: 0.71' - 0.35' = 0.36'

Per Open Channel Flow Measurement Handbook, second edition, Copyright 1965, Douglas M. Grant
Table 6-1D, Page 100

For head = 0.36', discharge= 0.1122 cfs

APPENDIX D
OK016
SOUTHWEST LOCATION

Flow measured 7-19-07, 15:04.
Estimates made visually for sampling points.
Sampling points chosen in relation to flow displayed below

ST.	Loc. (ft)	Depth (ft)	Flow	Cum. Flow	Cum. %	Ft fm lt bank
0	2	0	0	0	0.0%	0
1	3	0.8	0	0	0.0%	1
2	4	1.2	0.173	0.173	2.2%	2
3	5	1.5	0.321	0.494	6.3%	3
4	6	1.7	0.501	0.995	12.8%	4
5	7	1.8	0.557	1.552	19.9%	5
6	8	1.7	0.476	2.028	26.0%	6
7	9	1.6	0.575	2.603	33.4%	7
8	10	1.75	0.664	3.267	42.0%	8
9	11	1.5	0.565	3.832	49.2%	9
10	12	1.4	0.547	4.379	56.2%	10
11	13	1.25	0.374	4.753	61.0%	11
12	14	1.1	0.379	5.132	65.9%	12
13	15	1	0.223	5.355	68.8%	13
14	16	0.8	0.255	5.61	72.0%	14
15	17	0.6	0.276	5.886	75.6%	15
16	19	0.4	0.068	5.954	76.5%	17
17	21	0.4	0.212	6.166	79.2%	19
18	23	0.45	0.335	6.501	83.5%	21
19	25	0.4	0.308	6.809	87.4%	23
20	27	0.35	0.28	7.089	91.0%	25
21	29	0.35	0.267	7.356	94.5%	27
22	31	0.35	0.262	7.618	97.8%	29
23	33	0.3	0.169	7.787	100.0%	31
24	34.5	0	0	7.787	100.0%	32.5
			7.787			

APPENDIX D
OK016
SOUTHWEST LOCATION

Sample	Location
OK016-SW-001	6' fm left bank
OK016-SW-002	16' fm left bank
OK016-SW-003	6' fm right bank

APPENDIX D
OK019
SOUTHWEST LOCATION

OK019, 7-17-07, 11:07
The sampling locations were established at 10%, 30%, etc points using flows measured this date.

ST.	Loc. (ft)	Depth (ft)	Flow	Cum. Flow	Cum. %	Ft fm rt bank	Sample Location
0	0	0	0	0	0.0%	0	
1	2	0.5	0.234	0.234	0.1%	2	
2	6	0.8	1.719	1.953	1.1%	6	
3	10	1.1	2.563	4.516	2.6%	10	
4	14	1.2	1.986	6.502	3.8%	14	
5	18	1.2	2.256	8.758	5.1%	18	
6	22	1.85	4.447	13.205	7.7%	22	OK019-SW-00524' fm right bank
7	26	2	6.286	19.491	11.4%	26	
8	30	2.2	8.222	27.713	16.2%	30	
9	34	2.3	8.059	35.772	21.0%	34	
10	38	2.3	8.013	43.785	25.7%	38	
11	42	1.9	5.967	49.752	29.2%	42	OK019-SW-00444' fm right bank
12	46	1.5	5.482	55.234	32.4%	46	
13	50	2.5	10.01	65.244	38.2%	50	
13	50	2.5	0	65.244	38.2%	50	
14	54	2.5	5.85	71.094	41.7%	54	
14	54	2.5	0	71.094	41.7%	54	
15	58	1.85	9.125	80.219	47.0%	58	OK019-SW-00360' fm right bank
16	62	2.15	11.638	91.857	53.8%	62	
17	66	2.15	9.697	101.554	59.5%	66	
18	70	1.5	8.057	109.611	64.2%	70	
19	74	2.6	11.654	121.265	71.1%	74	OK019-SW-00274' fm right bank
19	74	2.6	0	121.265	71.1%	74	
20	78	2.3	8.095	129.36	75.8%	78	
21	82	2.3	5.991	135.351	79.3%	82	
22	86	2.1	6.589	141.94	83.2%	86	
23	90	1.7	5.472	147.412	86.4%	90	
24	94	1.2	3.352	150.764	88.4%	94	
25	98	0.8	1.839	152.603	89.4%	98	
26	102	1.15	2.686	155.289	91.0%	102	OK019-SW-001104' fm right bank
27	106	1	0.899	156.188	91.5%	106	
28	110	1	2.681	158.869	93.1%	110	
29	114	2	1.619	160.488	94.1%	114	
30	118	2	7.211	167.699	98.3%	118	
31	121	1.4	2.929	170.628	100.0%	121	
32	125	0.65	0.003	170.631	100.0%	125	
33	128	0	0	170.631	100.0%	128	
				170.631			

APPENDIX D
OK019
SOUTHWEST LOCATION

OK019, 7-19-07, 11:30
Flow was remeasured on this date, but locations were not recalculated

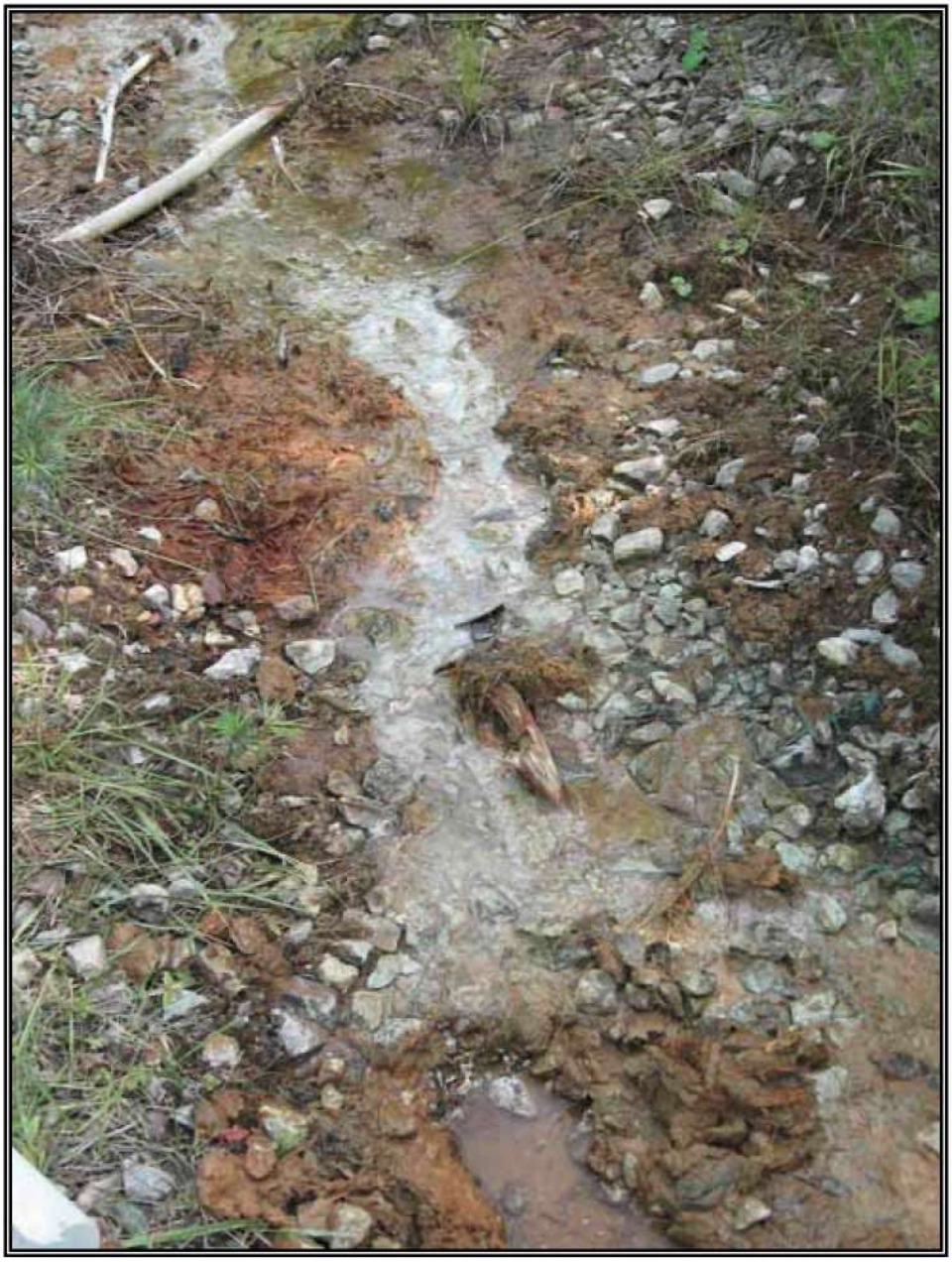
ST.	Loc. (ft)	Depth (ft)	Flow	Cum. Flow	Cum. %	Ft fm rt bank	Sample
0	2	0	0	0	0.0%	0	
1	6	0.9	1.303	1.303	0.6%	4	
2	10	1.1	2.79	4.093	1.8%	8	
3	14	1.4	3.775	7.868	3.4%	12	
4	18	1.3	2.613	10.481	4.5%	16	
5	22	1.5	4.697	15.178	6.5%	20	
6	25	1.65	3.027	18.205	7.8%	23	OK019-SW-00524' fm right bank
7	28	2.1	6.059	24.264	10.4%	26	
8	32	2.35	10.13	34.394	14.7%	30	
9	36	2.6	10.699	45.093	19.3%	34	
9	36	2.6	0	45.093	19.3%	34	
10	40	2.5	9.803	54.896	23.5%	38	
10	40	2.5	0	54.896	23.5%	38	
11	44	2.05	11.624	66.52	28.5%	42	OK019-SW-00444' fm right bank
12	48	1.6	5.077	71.597	30.6%	46	
13	51	1.3	3.821	75.418	32.3%	49	
14	53	2.8	6.388	81.806	35.0%	51	
14	53	2.8	0	81.806	35.0%	51	
15	55	3.2	6.74	88.546	37.9%	53	
15	55	3.2	0	88.546	37.9%	53	
16	57	1.9	5.386	93.932	40.2%	55	
17	61	2.2	11.972	105.904	45.3%	59	OK019-SW-00360' fm right bank
18	65	2.35	14.478	120.382	51.5%	63	
19	69	2.4	10.395	130.777	56.0%	67	
20	72	1.35	6.999	137.776	59.0%	70	
21	76	2.8	13.07	150.846	64.6%	74	
21	76	2.8	0	150.846	64.6%	74	OK019-SW-00274' fm right bank
22	80	2.6	11.279	162.125	69.4%	78	
22	80	2.6	0	162.125	69.4%	78	
23	84	2.5	8.179	170.304	72.9%	82	
23	84	2.5	0	170.304	72.9%	82	
24	88	2.3	9.83	180.134	77.1%	86	
25	92	1.8	6.224	186.358	79.8%	90	
26	96	1.4	6.285	192.643	82.5%	94	
27	100	1.4	3.113	195.756	83.8%	98	
28	105	1.2	7.822	203.578	87.1%	103	OK019-SW-001104' fm right bank
29	110	1.8	5.568	209.146	89.5%	108	
30	115	2.4	10.976	220.122	94.2%	113	
31	118	2.25	4.976	225.098	96.4%	116	
32	121	2.1	7.971	233.069	99.8%	119	
33	125	1.35	0.484	233.553	100.0%	123	
34	129	0.6	0.06	233.613	100.0%	127	
35	131	0	0	233.613	100.0%	129	
			233.613				

APPENDIX E

Photograph Log
(electronic, PDF files)

19th Century Operations Area (pages E-1 through E-47)
1950s Mine and Mill Site (pages E-48 through E-77)
Tailings Impoundment (pages E-78 through E-118)
Downstream Receiving Waters (pages E-119 through E-174)
Residential Wells (pages E-175 through E-179)

19TH CENTURY OPERATIONS AREA
(Photograph Log)



ORE KNOB FORMER MINE SITE

Photograph Name: OK003-SW-001_location

Location: 19th Century Operations Area

Orientation: Southeast

Date: July 19, 2007

Photographer: Michael Johnsen, B&V

Sample: OK003-SW-001

Subject: Seep upstream of the southwest corner of the tailings impoundment pond. Seep emanates from nearby adits, substrate is limestone lined, and water surface has a white milky film.

ORE KNOB FORMER MINE SITE

Photograph Name: OK004-SW-001_location

Location: 19th Century Operations Area

Orientation: Southwest

Date: July 19, 2007

Photographer: Michael Johnsen, B&V

Sample: OK004-SW-001

Subject: Seep upstream of the southwest corner of the tailings impoundment. Seep emanates from nearby adits, substrate is armored with precipitate (not lined with limestone).

ORE KNOB FORMER MINE SITE

Photograph Name: OK004-SD-001_sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Michael Johnsen, B&V

Sample: OK004-SD-001

Subject: Sediment sample co-located with OK004-SW-001; light-brown/orange gravelly sand.

ORE KNOB FORMER MINE SITE

Photograph Name: OK500 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK500-SL-001

Subject: Background soil sample collected ~600 feet southwest of the former roaster area, in mature trees north of residential property (154 Golden Fox) and south of Christmas tree farm.

ORE KNOB FORMER MINE SITE

Photograph Name: OK500 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK500-SL-001

Subject: Soil sample OK500-SL-001. 10YR 5/4, very fine silt with abundant root material.

ORE KNOB FORMER MINE SITE

Photograph Name: OK501 location

Location: 19th Century Operations Area

Orientation: South

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK501-SL-001

Subject: Soil sample location OK501 ~170 feet south-southwest of former shaft 2-S, southwest of the mining area. Location 15 feet from ATV trail on north-facing slope.

ORE KNOB FORMER MINE SITE

Photograph Name: OK501 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK501-SL-001

Subject: Soil sample OK501-SL-001. 10YR 4/4, sandy silt with abundant roots and organic detritus.

ORE KNOB FORMER MINE SITE

Photograph Name: OK502 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK502-SL-001

Subject: Soil sample location OK502 ~220 feet east of former shaft 4-N, northeast of the mining area.

ORE KNOB FORMER MINE SITE

Photograph Name: OK502 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK502-SL-001

Subject: Soil sample OK502-SL-001. 10YR 5/4, silt with fragments of schist and quartzite to ~2 inches.

ORE KNOB FORMER MINE SITE

Photograph Name: OK511 location

Location: 19th Century Operations Area

Orientation: North

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK511-SL-001

Subject: Soil sample location OK511 ~200 feet south of former engine shaft, ~120 feet south of lower bench road (~40 feet downslope from road), in the southern portion of the mining area. Area barren, no vegetation.

ORE KNOB FORMER MINE SITE

Photograph Name: OK511 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK511-SL-001

Subject: Soil sample OK511-SL-001. Matrix supported waste rock with minor sulfide-rich chunks with white salts, 2.5YR 4/6, red clayey silt matrix. Most rocks are schists and quartz < 6 inches, ore chunks < 2% up to 8 inches, minor staurolite.

ORE KNOB FORMER MINE SITE

Photograph Name: OK511 sulfide ore with salts

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: n/a

Subject: Sulfide ore with salts found near station OK511.

ORE KNOB FORMER MINE SITE

Photograph Name: OK512 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK512-SL-001

Subject: Soil sample location OK512 ~300 feet southeast of former engine shaft, ~180 feet south of lower bench road (~40 feet below road), in the southern portion of the mining area. Piles of crushed material downslope of waste rock dumps. Pile held up by wood pilings. Area barren, no vegetation.

ORE KNOB FORMER MINE SITE

Photograph Name: OK512 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK512-SL-001

Subject: Soil sample OK512-SL-001. Matrix-supported, 10YR 4/6, silty micaceous material, surface lag of quartz and metamorphic rock to ~3 inches, all is stained yellow.

ORE KNOB FORMER MINE SITE

Photograph Name: OK513 location

Location: 19th Century Operations Area

Orientation: South

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK513-SL-001

Subject: Soil sample location OK513 in waste rock dump ~300 feet north-northeast of former engine shaft, ~30 feet below top of hill, midway down rock dump face, in the northern portion of the mining area. Area is barren (no vegetation), erodes downslope, and exhibits sulfur odor.

ORE KNOB FORMER MINE SITE

Photograph Name: OK513 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK513-SL-001

Subject: Soil sample OK513-SL-001. Matrix-supported, mostly 10YR 4/6 silt with some 2.5Y 6/8 quartz-rich micaceous sand. Rock is mostly yellow stained quartz and schist up to 6 inches, with 3-5% sulfide-rich ore.

ORE KNOB FORMER MINE SITE

Photograph Name: OK513 oxidized ore

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: n/a

Subject: Sulfide-rich ore oxidized to reddish black with white salts, up to 10 inches. Found near station OK513.

ORE KNOB FORMER MINE SITE

Photograph Name: OK514 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK514-SL-001

Subject: Soil sample location OK514 in waste rock dump ~240 feet north of former engine shaft, top of berm about 15 feet downslope, in the northern portion of the mining area. Area is barren, no vegetation.

ORE KNOB FORMER MINE SITE

Photograph Name: OK514 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK514-SL-001

Subject: Soil sample OK514-SL-001. Matrix-supported, 10YR 4/6 silty material, micaceous with quartz, no sulfides. Rock to 5 inches, mix of oxidized ore and quartz metamorphic rocks (yellow stained).

ORE KNOB FORMER MINE SITE

Photograph Name: OK515 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK515-SL-001

Subject: Soil sample location OK515 in a ditch draining west from the southwest side of the former roaster area, ~230 feet southwest of the former roaster area. Looks like the ditch has been bermed up to divert water – does not look like a natural waterway, but is a path that erosion now follows.

ORE KNOB FORMER MINE SITE

Photograph Name: OK515 sample

Location: 19th Century Operations Area

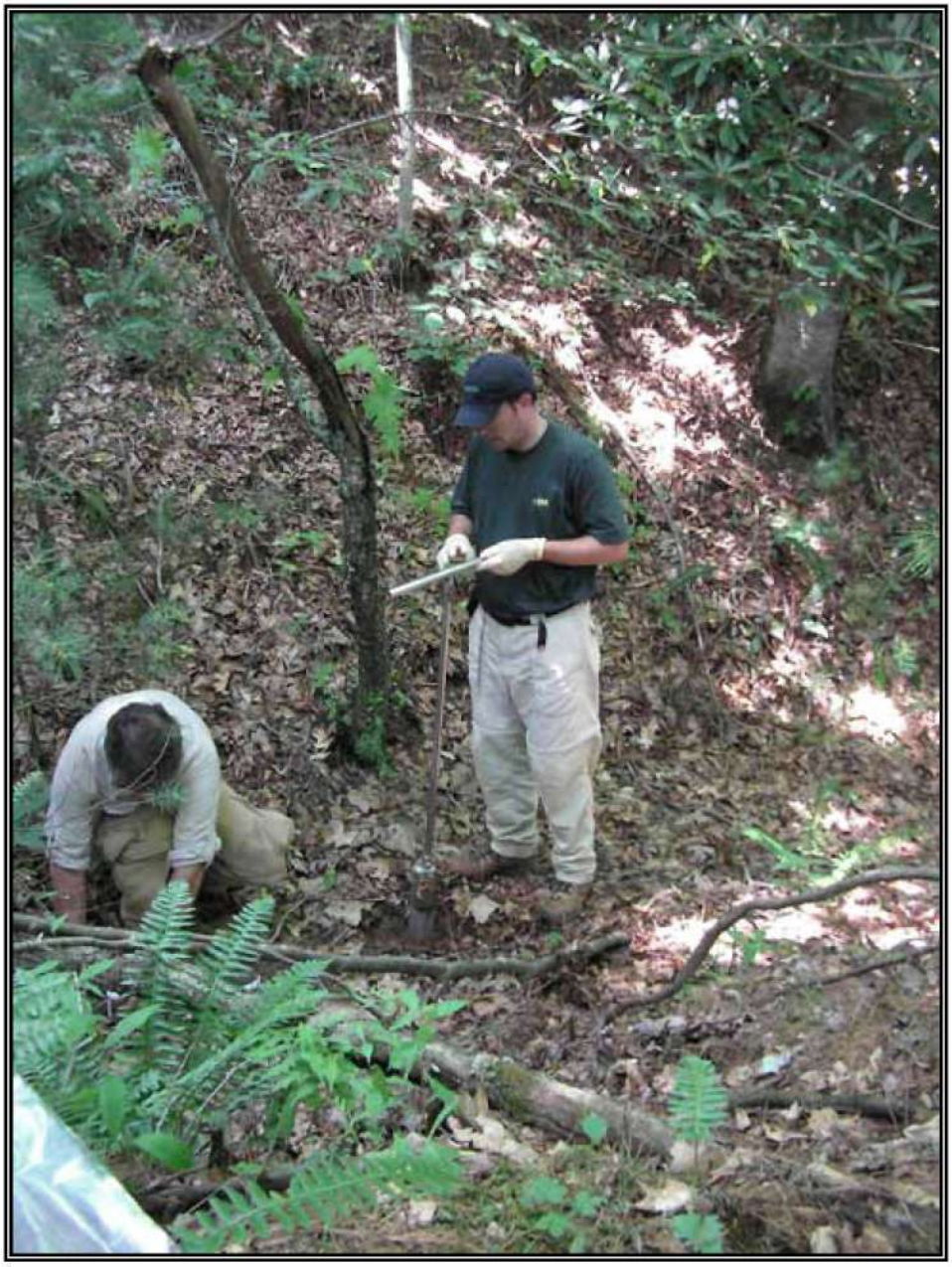
Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK515-SL-001

Subject: Soil sample OK515-SL-001. 7.5YR 4/6. 0-6 inches: very micaceous fine to medium sand. 6-12 inches: micaceous, clayey silt.



ORE KNOB FORMER MINE SITE

Photograph Name: OK518 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK518-SL-001

Subject: Soil sample location OK518 in a deep, narrow, east-trending gully ~80 feet north of the ALD creek, ~400 feet northeast of station OK517 and ~150 feet north-northeast of station OK001.

ORE KNOB FORMER MINE SITE

Photograph Name: OK518 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK518-SL-001

Subject: Soil sample OK518-SL-001. Micaceous silty soil, 10YR 6/4 – 7/1 with sparse fragments of schist, abundant root material, one piece of black, sooty material.

ORE KNOB FORMER MINE SITE

Photograph Name: OK519 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK519-SL-001

Subject: Soil sample location OK519 ~240 feet northeast of the mapped adits (and station OK003).

ORE KNOB FORMER MINE SITE

Photograph Name: OK519 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK519-SL-001

Subject: Soil sample OK519-SL-001. 10YR 6/4, micaceous silt with organic detritus and roots.

ORE KNOB FORMER MINE SITE

Photograph Name: OK520 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK520-SL-001

Subject: Soil sample location OK520 in the northwest portion of the mining area, ~340 feet northwest of the former engine shaft, ~80 southeast of the road to the tailings impoundment.

ORE KNOB FORMER MINE SITE

Photograph Name: OK520 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK520-SL-001

Subject: Soil sample OK520-SL-001. 10R 4/4, matrix supported, sandy silt with clasts of very oxidized, quartz-rich material with white secondary salts, maximum size 2 inches. Looks like crushed, roasted material.

ORE KNOB FORMER MINE SITE

Photograph Name: OK550 sample

Location: 19th Century Operations Area

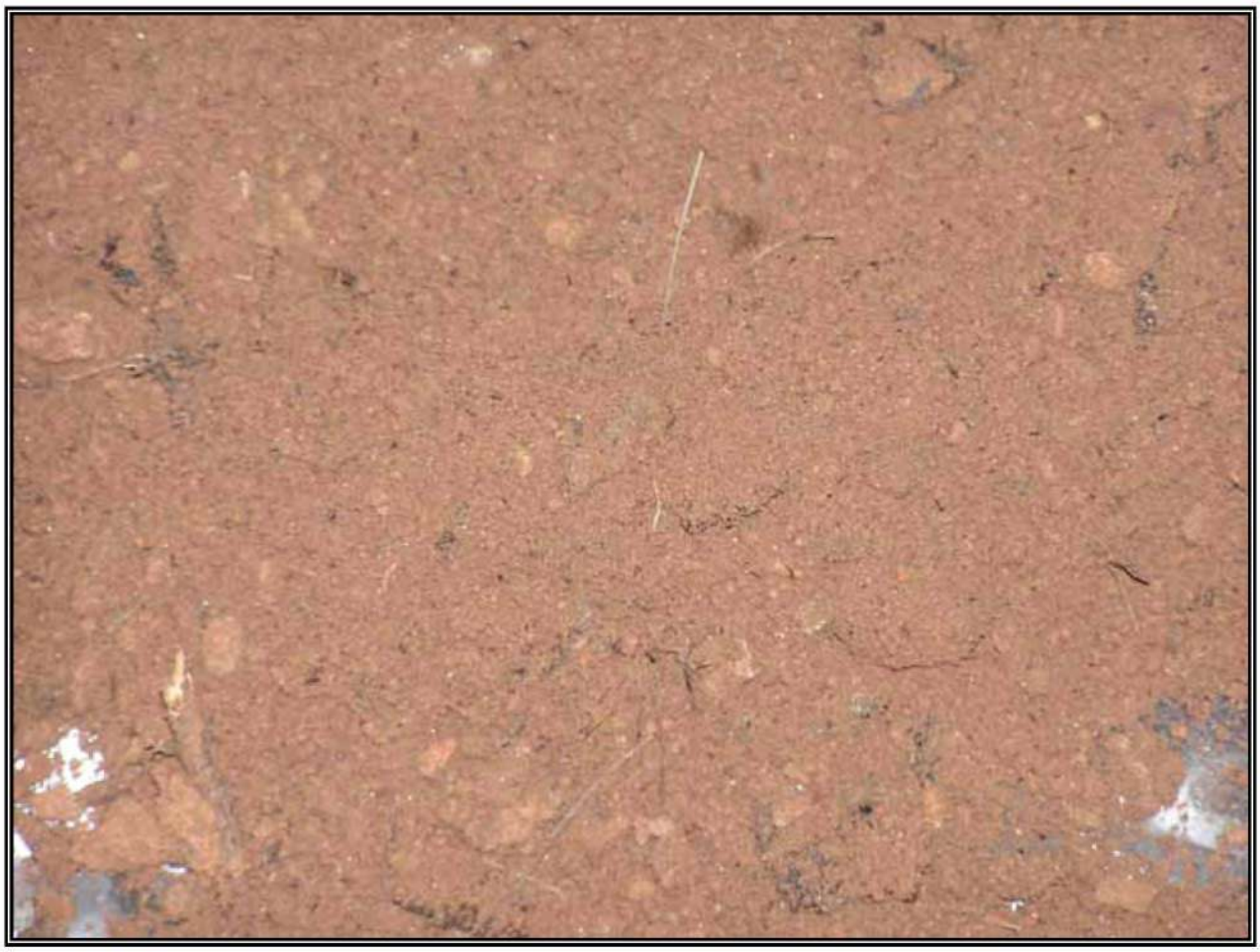
Orientation: unknown

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK550-WA-001

Subject: Waste sample location OK550 west of the mining area, ~60 northwest of former shaft 2-S, ~80 feet west of the road to the tailings impoundment. Small pile of waste rock half covered by forest duff and some vegetation.



ORE KNOB FORMER MINE SITE

Photograph Name: OK550 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK550-WA-001

Subject: Waste sample OK550-WA-001. Matrix supported, blocks of angular schist to ~10 inches, only a few Fe stained. Matrix is micaceous silty sand, 7.5YR 4/6.

ORE KNOB FORMER MINE SITE

Photograph Name: OK551 location

Location: 19th Century Operations Area

Orientation: Northeast

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK551-SL-001

Subject: Soil sample location OK551 on the southwest margin of the former roaster area, downslope where erosion would carry material from the area.

ORE KNOB FORMER MINE SITE

Photograph Name: OK551 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK551-SL-001

Subject: Soil sample OK551-SL-001. 10YR 4/4 micaceous silty soil with sand and small schist gravel to ~0.5 inches, minor root material.

ORE KNOB FORMER MINE SITE

Photograph Name: OK552 location

Location: 19th Century Operations Area

Orientation: Northwest

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK552-WA-001

Subject: Waste sample location OK552 in the south-center of the former roaster area on the south side of a graded hillslope with roaster piles, ~130 feet west of the road to the tailings impoundment.

ORE KNOB FORMER MINE SITE

Photograph Name: OK552 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK552-WA-001

Subject: Waste sample OK522-WA-001. Bright red micaceous silt, 10R 4/6 to 4/8 with fragments of weathered/oxidized schist and quartzite up to 3 cm. Upper surface has cm-sized vesicular 5YR 4/4 clasts with quartz.

ORE KNOB FORMER MINE SITE

Photograph Name: OK553 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK553-SL-001

Subject: Soil sample location OK553 from southeast of the former roaster area, near the center of the assumed foundation of former smelter, ~110 feet east of the road to the tailings impoundment.

ORE KNOB FORMER MINE SITE

Photograph Name: OK553 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK553-SL-001

Subject: Soil sample OK553-SL-001. 0-6 inches: 10YR 3/2, micaceous silt with sand, abundant root material. 6-10 inches: 10R 4/8, orange-red silt or clayey silt. 10-12 inches: 5YR 6/6, micaceous silt with pieces of charcoal.

ORE KNOB FORMER MINE SITE

Photograph Name: OK554 location

Location: 19th Century Operations Area

Orientation: South

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK554-SL-001

Subject: Soil sample location OK554 on the northern margin of the former roaster area, 10 feet downslope from graded soil in the base of a small gully, uphill from grassed, graded land.

ORE KNOB FORMER MINE SITE

Photograph Name: OK554 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK554-SL-001

Subject: Soil sample OK554-SL-001. 10YR 4/4, very micaceous sandy silt with angular schist to 6-8 cm, minor root material.

ORE KNOB FORMER MINE SITE

Photograph Name: OK555 location

Location: 19th Century Operations Area

Orientation: Southeast

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK555-WA-001

Subject: Soil sample location OK555 north of the mining area, south of former mill and slag dump, ~70 southeast of road to tailings impoundment, on hillslope 30 feet above the road. Sample collected from a small pile of iron-calcine like material; pile is eroding downslope (very apparent during rain event on July 17, 2007).

ORE KNOB FORMER MINE SITE

Photograph Name: OK555 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK555-WA-001

Subject: Waste sample OK555-WA-001. Bright red 5R 4/6, very fine grained, minor crushed quartz and brassy sulfide.

ORE KNOB FORMER MINE SITE

Photograph Name: OK556 location

Location: 19th Century Operations Area

Orientation: North

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK556-WA-001

Subject: Waste sample location OK556 northeast of the mining area, on a waste rock dump/mound of material ~180 feet high, ~80 feet southeast of the mapped adits.

ORE KNOB FORMER MINE SITE

Photograph Name: OK556 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: OK556-WA-001

Subject: Waste sample OK556-WA-001. Matrix-supported 10YR 4/6 silty fine sand with trace pyrite, mica, and quartz, schist and quartz chunks to 6 inches (yellow stained).

ORE KNOB FORMER MINE SITE

Photograph Name: OK556 sulfide ore with salts

Location: 19th Century Operations Area

Orientation: n/a

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: n/a

Subject: Rusty brown to black mine rock (ore) with abundant partly oxidized pyrite, distinct sulfur odor, and white secondary salts. Found near station OK556.

ORE KNOB FORMER MINE SITE

Photograph Name: OK557 location

Location: 19th Century Operations Area

Orientation: unknown

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK557-WA-001

Subject: Waste sample location OK557 on a slag dump on the north side of former smelter, ~110 feet east of road to tailings impoundment, ~70 feet north of station OK553 (former smelter). Slag pile is ~30 feet high, consisting of broken moulds of pots – most ~6-8 inches on a side.

ORE KNOB FORMER MINE SITE

Photograph Name: OK557 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK557-WA-001

Subject: Waste sample OK557-WA-001. Slag is weathered to yellowish-brown exterior, interior is metallic grayish black (N1-N2) with occasional green copper salts and brassy sulfides (<< 1mm blebs); dense, some fragments are poorly vesicular.

ORE KNOB FORMER MINE SITE

Photograph Name: OK558 location

Location: 19th Century Operations Area

Orientation: West

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK558-WA-001

Subject: Waste sample location OK558 on a slag dump east of the former roaster area, ~190 feet east of road to the tailings impoundment, ~260 feet north-northeast of station OK553 (former smelter).

ORE KNOB FORMER MINE SITE

Photograph Name: OK558 sample

Location: 19th Century Operations Area

Orientation: n/a

Date: July 18, 2007

Photographer: Tom Moyer, B&V

Sample: OK558-WA-001

Subject: Waste sample OK558-WA-001. 10YR 3/2 – 4/2, fine material consisting of medium to coarse sand with slag fragments to 2 inches.

ORE KNOB FORMER MINE SITE

Photograph Name: former roaster piles 1

Location: 19th Century Operations Area

Orientation: Northwest

Date: July 19, 2007

Photographer: Tom Moyer, B&V

Sample: n/a

Subject: Former roaster piles within the historic mine area of the 19th century operations. Roaster piles are marked by bright red and black streaks, as shown in the photograph.

1950S MINE AND MILL SITE
(Photograph Log)

ORE KNOB FORMER MINE SITE

Photograph Name: OK400-SL-001_location

Location: 1950s Mine and Mill Site

Orientation: West

Date: July 17, 2007

Photographer: Mark Bean, SESD

Sample: OK400-SL-001

Subject: Sample collected ~70 feet north of road that leads to the transformer building (not shown), ~200 feet west of the ball mill foundation. Location noted by orange flag in the lower left corner of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK401-SL-001_location

Location: 1950s Mine and Mill Site

Orientation: Southwest

Date: July 17, 2007

Photographer: Mark Bean, SESD

Sample: OK401-SL-001

Subject: Sample collected ~70 feet southwest of the transformer building (not shown). Location noted by the orange flag in the center-right of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK406-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: Northeast

Date: July 19, 2007

Photographer: Mark Bean, SESD

Sample: OK406-SL-001

Subject: Sample collected in a residential backyard (801 Little Peak Creek Rd, same property as well station OK706), ~160 feet west and downhill from the house, 2 feet north of rutted road (along the left side of the road as shown in the photograph). Location is ~120 feet southeast of the southern end of the former freshwater pond.

ORE KNOB FORMER MINE SITE

Photograph Name: OK407-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: Northeast

Date: July 19, 2007

Photographer: Mark Bean, SESD

Sample: OK407-SL-001

Subject: Sample collected in a residential yard ~50 feet south of the southern end of the mobile home (shown), ~150 feet east of the mill site. Location noted by orange flag in the left-center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK408-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: Southeast

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK408-SL-001

Subject: Sample collected in a residential yard ~6 feet northwest of the north end of the mobile home shown, ~40 feet southwest of access road to the mill site. Location noted by person standing near the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK411-SL-001_location

Location: 1950s Mine and Mill Site

Orientation: Southwest

Date: July 17, 2007

Photographer: Mark Bean, SESD

Sample: OK411-SL-001

Subject: Sample collected ~15 feet southeast of the transformer building (shown), ~10 feet southwest of the road. Location noted by orange flag in the center-bottom of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK412-SL-001_location

Location: 1950s Mine and Mill Site

Orientation: South

Date: July 17, 2007

Photographer: Mark Bean, SESD

Sample: OK412-SL-001

Subject: Sample collected adjacent to the northeast corner of the transformer building (shown). Location noted by orange flag in the lower-left portion of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK413-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: Northeast

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK413-SL-001

Subject: Sample collected beside a foundation pier of the ball mill structure (shown in the center of the photograph), ~40 feet north of the former fine ore bins (eastern one).

ORE KNOB FORMER MINE SITE

Photograph Name: OK414-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: South

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK414-SL-001

Subject: Sample collected in the northwest corner of the former flotation plant foundation, ~12 feet off the southwest corner of the former truck loading bins where material has collapsed/been pushed into a sump. Location noted by hand auger and orange flag shown near the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK414-SL-001_sample

Location: 1950s Mine and Mill Site

Orientation: West

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK414-SL-001

Subject: Close-up of station OK0414, showing the removal of soil from hand auger sampling equipment.

ORE KNOB FORMER MINE SITE

Photograph Name: OK415-SL-001_location

Location: 1950s Mine and Mill Site

Orientation: Southeast

Date: July 17, 2007

Photographer: Mark Bean, SESD

Sample: OK415-SL-001

Subject: Sample collected under the conveyor system foundation (shown at ground level in the foreground of the photograph), ~12 feet west of the crusher house foundation. Location noted by orange flag in the lower-right portion of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK416-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: Northwest

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK416-SL-001

Subject: Sample collected in the middle of the electric shop foundation slab, ~30 feet northeast of its western edge, 2.5 feet northwest of remaining iron rail (part of foundation). Location noted by orange flag in the center of the photograph (in front of the rear tire of the trailer).

ORE KNOB FORMER MINE SITE

Photograph Name: OK417-SL-001_location

Location: 1950s Mine and Mill Site

Orientation: West

Date: July 17, 2007

Photographer: Mark Bean, SESD

Sample: OK417-SL-001

Subject: Sample collected in a low-lying drainage point beside the northeastern corner of the former truck loading bins (foundations shown). Location noted by the orange flag in the lower-right portion of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK418-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: Northwest

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK418-SL-001

Subject: Sample collected beside a foundation pier of the ball mill structure (shown in the background of the photograph), ~30 feet west-northwest of station OK413. Location noted by the orange flag and red crate near the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK419-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: West

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK419-SL-001

Subject: Sample collected in the middle of the south side of the electric shop foundation, ~2 feet off concrete foundation, ~60 feet north-northwest of station OK416. Location noted by the orange flag near the center of the photograph in front of the pile of tires.

ORE KNOB FORMER MINE SITE

Photograph Name: OK421-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: Southwest

Date: July 19, 2007

Photographer: Mark Bean, SESD

Sample: OK421-SL-001

Subject: Sample collected ~200 feet northeast of the former truck loading bins (not shown), along a well-defined drainage downslope from the mill site. Location noted by the orange flag in the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK422-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: South

Date: July 19, 2007

Photographer: Mark Bean, SESD

Sample: OK422-SL-001

Subject: Sample collected ~120 feet east of the tailings area north of the mill site, ~130 feet west of the southern end of the former freshwater pond, located in a well-defined drainage path trending northeast from the southern 1/3 of the tailings area. Location noted by the red crate near the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK423-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: North

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK423-SL-001

Subject: Sample collected downhill and east from the northern end of the tailings area (north of the mill site), along a defined drainage to the former freshwater pond (~100 feet west of the pond). Location noted by orange flag near the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK424-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: Northwest

Date: July 19, 2007

Photographer: Mark Bean, SESD

Sample: OK424-SL-001

Subject: Sample collected from a small wetland ~180 feet south of the southern end of the former freshwater pond. Location noted by the orange flag in the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK425-SL-001_location2

Location: 1950s Mine and Mill Site

Orientation: Southwest

Date: July 19, 2007

Photographer: Mark Bean, SESD

Sample: OK425-SL-001

Subject: Sample collected within the former freshwater pond, near the center (north-south), ~50 feet east of the western margin, ~150 feet northeast of station OK423. Location noted by the orange flag at the base of the barren tree near the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK427-SD-001_location

Location: 1950s Mine and Mill Site

Orientation: Southeast

Date: July 17, 2007

Photographer: Mark Bean, SESD

Sample: OK427-SD-001

Subject: Sample collected within the bermed/walled foundation of the conveyor system, ~10 feet west of the crusher house foundation, <10 feet north of station OK415. Location noted by the orange flag near the center-bottom of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK450-WA-001_location

Location: 1950s Mine and Mill Site

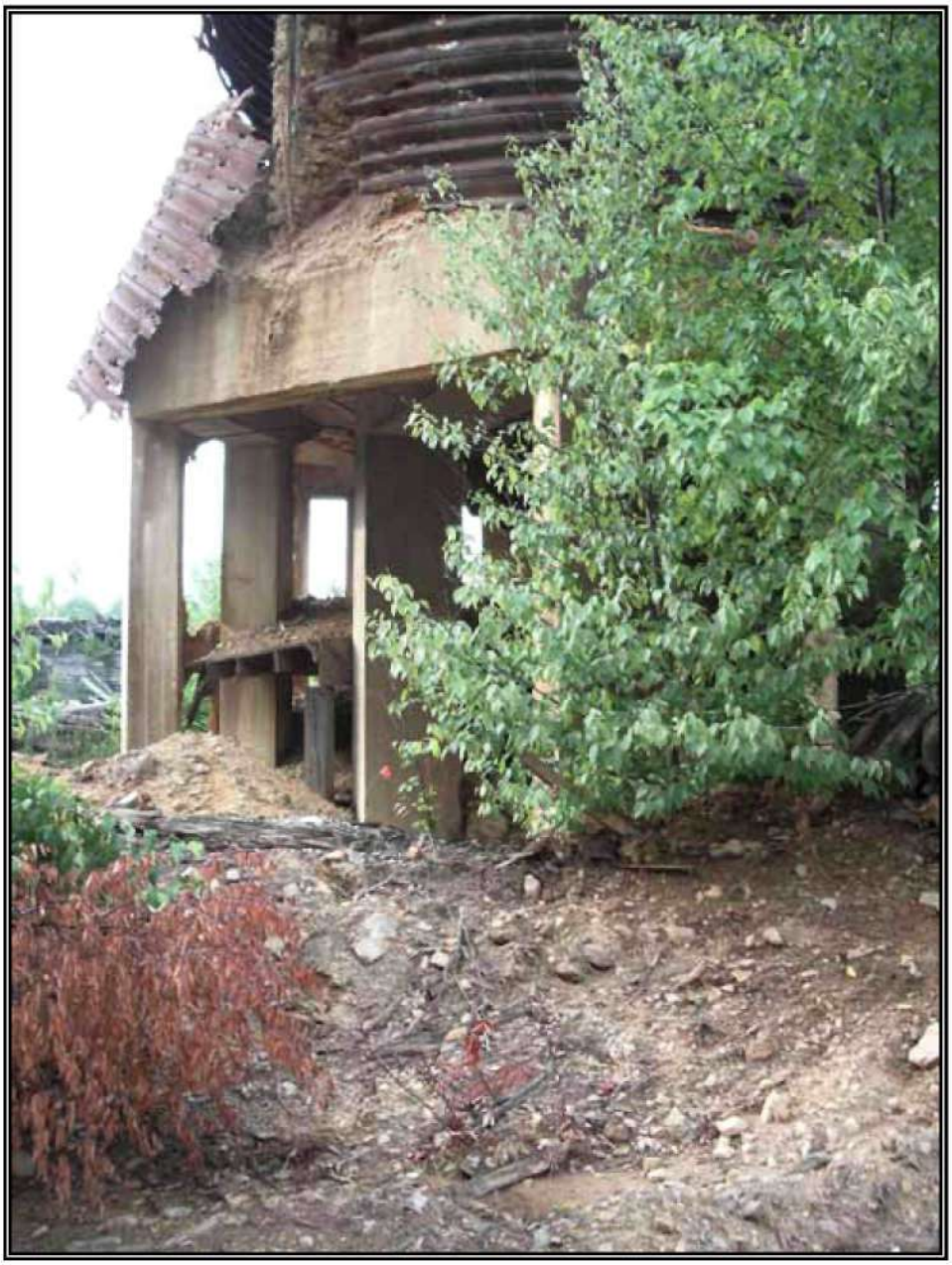
Orientation: Southwest

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK450-WA-001

Subject: Sample collected under the foundation for the former fine ore bins. Location noted by the hand auger sampling device shown.



ORE KNOB FORMER MINE SITE

Photograph Name: OK451-WA-001_location2

Location: 1950s Mine and Mill Site

Orientation: North

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK451-WA-001

Subject: Sample collected directly under spill pile (ore) on the southwest side of the former coarse ore/waste bins (shown). Location noted by the orange flag near the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK451-WA-001_location

Location: 1950s Mine and Mill Site

Orientation: North

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK451-WA-001

Subject: Close-up of station OK451 under the former coarse ore/waste bins. Location noted by the orange flag near the bottom of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK452-WA-001_location

Location: 1950s Mine and Mill Site

Orientation: South

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK452-WA-001

Subject: Sample collected in the southwestern portion of the tailings area north of the mill site, ~310 feet north of the former truck loading bins.

ORE KNOB FORMER MINE SITE

Photograph Name: OK452-WA-001_sample

Location: 1950s Mine and Mill Site

Orientation: n/a

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK452-WA-001

Subject: Waste sample collected from station OK452. Stratigraphy of cuttings by color: 0-9 in. yellowish-orange; 9-30 in. black with moisture from 25-30 in.

ORE KNOB FORMER MINE SITE

Photograph Name: OK453-WA-001_location2

Location: 1950s Mine and Mill Site

Orientation: East

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK453-WA-001

Subject: Sample collected in the southeastern portion of the tailings area north of the mill site, ~320 feet north of the former truck loading bins (not shown). Location noted by the red crate in the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK453-WA-001_sample

Location: 1950s Mine and Mill Site

Orientation: n/a

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK453-WA-001

Subject: Waste sample collected from station OK453. Cuttings are shown from shallowest on the right to deepest on the left with the following stratigraphy changes by color: 0-6 in. yellowish-orange; 6-12 in. reddish-orange; 12-30 in. yellowish-orange; 30-42 in. yellowish with gray flecks; 42-48 in. grayish-white; > 48 in. medium brown.

ORE KNOB FORMER MINE SITE

Photograph Name: OK454-WA-001_location2

Location: 1950s Mine and Mill Site

Orientation: East

Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK454-WA-001

Subject: Sample collected in the northern portion of the tailings area north of the mill site, ~490 feet north of the former truck loading bins (not shown), ~180 feet north of stations OK452 and OK453. Location noted by red crate in the center of the photograph.

ORE KNOB FORMER MINE SITE

Photograph Name: OK454-WA-001_sample

Location: 1950s Mine and Mill Site

Orientation: n/a

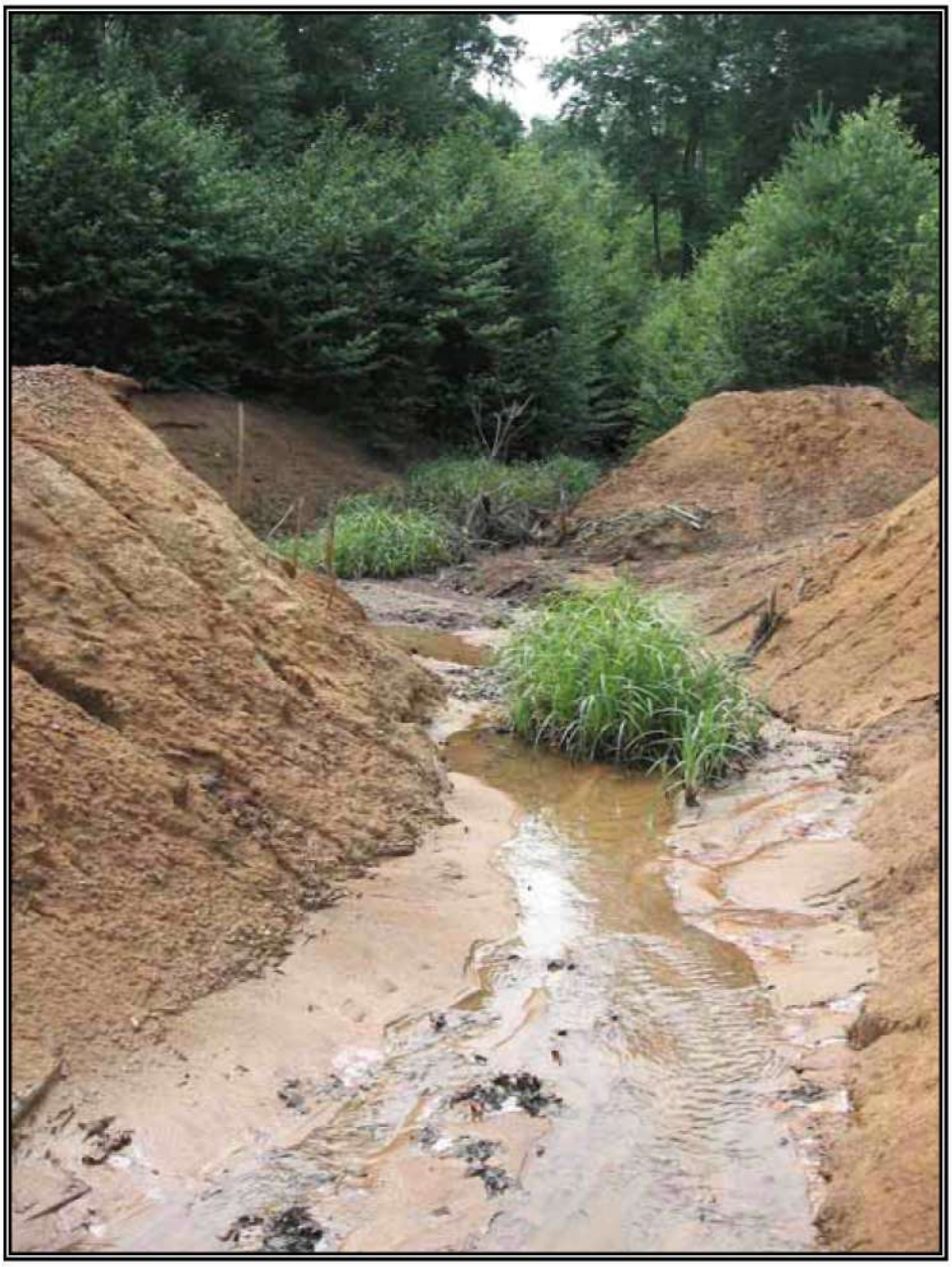
Date: July 18, 2007

Photographer: Mark Bean, SESD

Sample: OK454-WA-001

Subject: Waste sample collected from station OK454. Stratigraphy of cuttings by color: 0-18 in. orange-brown; 18-22 in. light gray; 22-24 in. light green; 24-36 in. medium gray; 36-42 in. dark gray; 42-45 in. black; 45-48 in. brown-gray (all depths estimated).

TAILINGS IMPOUNDMENT
(Photograph Log)



ORE KNOB FORMER MINE SITE

Photograph Name: OK002-SW-001_location

Location: Tailings Impoundment

Orientation: Southwest

Date: July 19, 2007

Photographer: Michael Johnsen, B&V

Sample: OK002-SW-001

Subject: Southwest corner of the tailings impoundment. Sample collected from this small creek entering the southwest corner lobe of the tailings impoundment, ~180 feet into the tailings.

ORE KNOB FORMER MINE SITE

Photograph Name: OK002-SD-001_sample

Location: Tailings Impoundment

Orientation: n/a

Date: July 19, 2007

Photographer: Michael Johnsen, B&V

Sample: OK002-SD-001

Subject: Sediment sample co-located with OK002-SW-001; light-brown/orange medium sand (0-3 inches bgs), medium gray fine sand (3-4 inches bgs).

ORE KNOB FORMER MINE SITE

Photograph Name: OK005_fromoutlet

Location: Tailings Impoundment

Orientation: Southeast

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK005-SW-001

Subject: Pond on southeast corner of the tailings impoundment. Sample collected ~5 feet from southeastern pond edge within a marshy area. Photograph taken during recon prior to sampling event; sample collected July 19, 2007.

ORE KNOB FORMER MINE SITE

Photograph Name: OK006-SW-001_location2

Location: Tailings Impoundment

Orientation: Southwest

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK006-SW-001

Subject: Pond on the southwestern corner of the tailings impoundment. Sample collected in the northwest portion of the pond ~40 feet from north shore.

ORE KNOB FORMER MINE SITE

Photograph Name: OK007_facingimpoundment

Location: Tailings Impoundment

Orientation: Southeast

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK007-SW-001

Subject: Isolated pond on the west side of the tailings impoundment. Sample collected ~20 feet from the northern edge. Photograph taken during recon prior to sampling event; sample collected July 18, 2007.

ORE KNOB FORMER MINE SITE

Photograph Name: OK008-SW-001_location

Location: Tailings Impoundment

Orientation: Northeast

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK008-SW-001

Subject: Pond on the northeast corner of the tailings impoundment. Sample collected ~35 feet from the western edge.

ORE KNOB FORMER MINE SITE

Photograph Name: OK009-SW-001_location2

Location: Tailings Impoundment

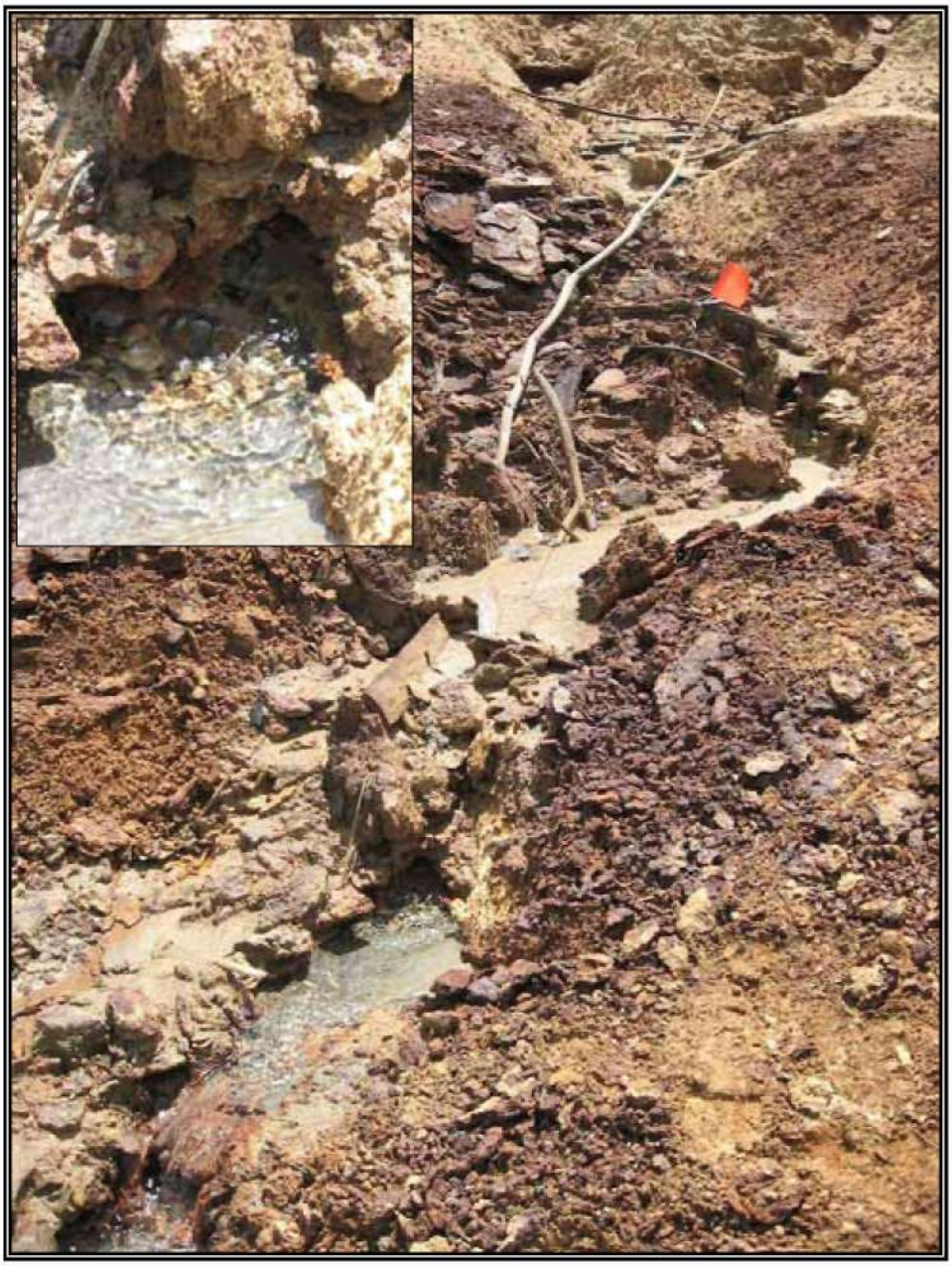
Orientation: Southeast

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK009-SW-001

Subject: Seep emanating from the base of the tailings dam upper slope. Sample collected from the confluence of 3 small seeps that cover ~40 feet along strike of the base of the higher dam face, ~20 feet north of the toe of slope, ~60 feet from the western edge of the dam slope.



ORE KNOB FORMER MINE SITE

Photograph Name: OK010-SW-001_location

Location: Tailings Impoundment

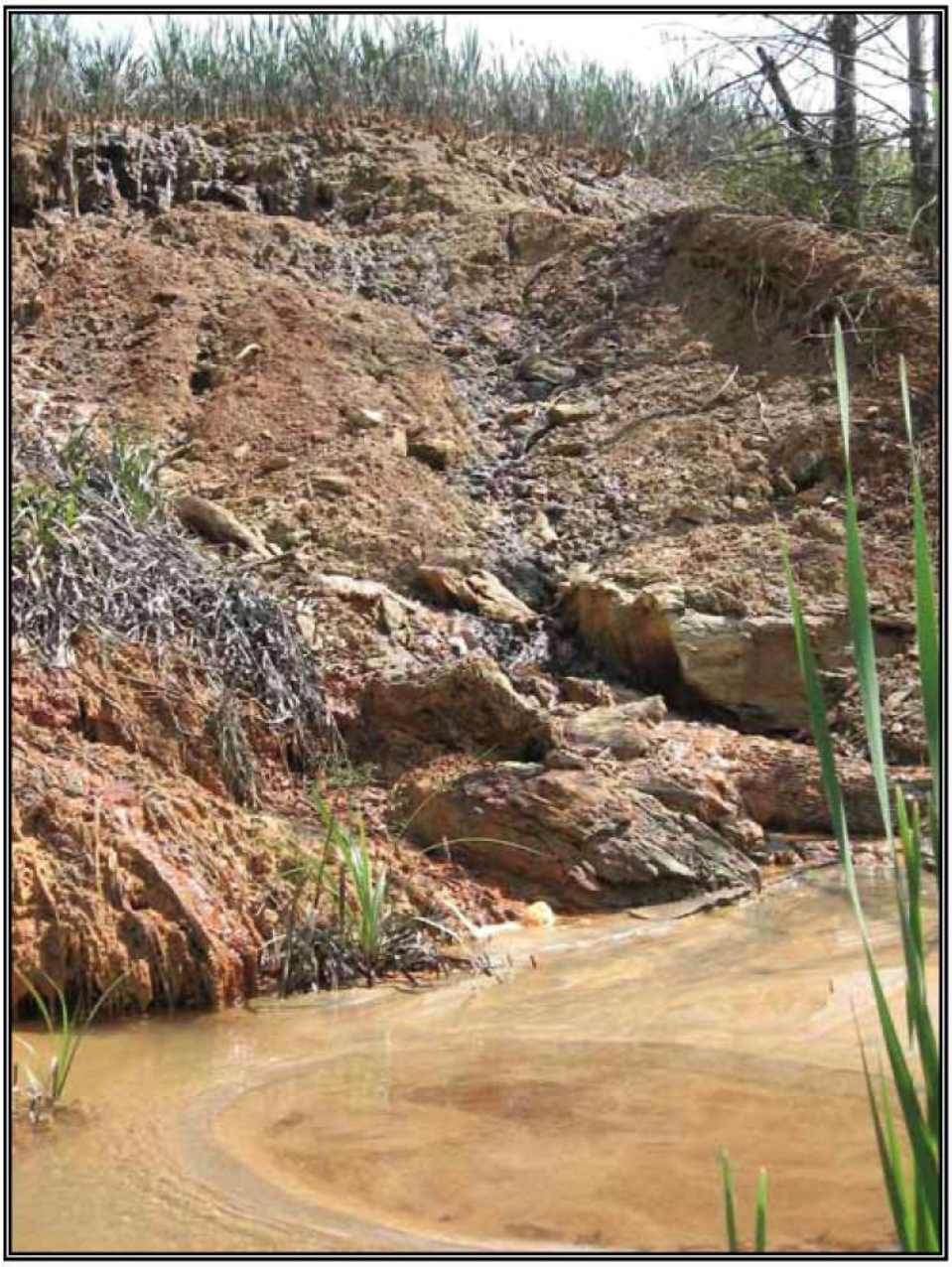
Orientation: Southeast

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK010-SW-001

Subject: Seep emanating from the base of the tailings dam upper slope. Sample collected near the center of the dam face along strike, ~2 feet from boiling source. The inset photograph shows a close-up of the upwelling source of the seep.



ORE KNOB FORMER MINE SITE

Photograph Name: OK011-SW-001_location2

Location: Tailings Impoundment

Orientation: Southwest

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK011-SW-001

Subject: Strong upwelling seep at the base of the tailings dam lower slope. Sample collected from within upwelling circular depression ~6 feet from where a collection of seep/overland flow meets the toe of slope.

ORE KNOB FORMER MINE SITE

Photograph Name: OK011-SW-001_location

Location: Tailings Impoundment

Orientation: Southwest

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK011-SW-001

Subject: Close-up of strong upwelling source of seep OK011. Normal substrate is light brown micaceous sand, while upwelling exposes dark brown fine grained micaceous sand.

ORE KNOB FORMER MINE SITE

Photograph Name: OK012-SW-001_location

Location: Tailings Impoundment

Orientation: Southeast

Date: July 19, 2007

Photographer: Michael Johnsen, B&V

Sample: OK012-SW-001

Subject: Seep emanating from the base of the tailings dam upper slope. Sample collected ~20 feet from eastern edge of the dam slope, 1.5 feet from source.

ORE KNOB FORMER MINE SITE

Photograph Name: OK012-SW-001_location3

Location: Tailings Impoundment

Orientation: Northeast

Date: July 19, 2007

Photographer: Michael Johnsen, B&V

Sample: OK012-SW-001

Subject: Flow of seep OK012 as it enters a marshy area at the base of the tailings dam upper slope.

ORE KNOB FORMER MINE SITE

Photograph Name: OK300 sample

Location: Tailings Impoundment

Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK300-SL-001

Subject: Soil sample collected on hillslope southeast of the southwest lobe of the tailings impoundment, ~130 feet up slope from the tailings. 10YR 5/4 silty soil with fine sand, some root material, minor metamorphic rocks to ~1 inch (yellow-stained quartzite).

ORE KNOB FORMER MINE SITE

Photograph Name: OK301 location

Location: Tailings Impoundment

Orientation: unknown

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK301-SL-001

Subject: Soil sample location OK301 ~280 feet west of the tailings dam, ~140 feet north of the road.

ORE KNOB FORMER MINE SITE

Photograph Name: OK301 sample

Location: Tailings Impoundment

Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK301-SL-001

Subject: Soil sample OK301-SL-001. 10YR 4/4 silty sand with minor clay, minor rock fragments to ~1 inch (Fe-stained quartzite), minor root material.

ORE KNOB FORMER MINE SITE

Photograph Name: OK351 location

Location: Tailings Impoundment

Orientation: Southwest

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK351-WA-001

Subject: Waste sample location OK351 on southwest lobe of tailings impoundment, center of clearing, ~50 feet west of gully at inlet to impoundment (~50 feet southwest of OK002).

ORE KNOB FORMER MINE SITE

Photograph Name: OK351 sample

Location: Tailings Impoundment

Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK351-WA-001

Subject: Waste sample OK351-WA-001. 0-11 inches: 10YR 5/4 medium to fine sandy tailings, oxidized, quartz-rich with rock fragments and mica, sharp basal contact. 11-12 inches: top of hard pan, salt and pepper mix of N1/2 and 2.5Y 8/2 very fine sand with abundant sulfide.

ORE KNOB FORMER MINE SITE

Photograph Name: OK352 location

Location: Tailings Impoundment

Orientation: Northeast

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK352-WA-001

Subject: Waste sample location on the southwest lobe of the tailings impoundment, ~180 feet downstream of OK002, from the right bank of the tributary entering the southwest lobe of the tailings impoundment. Sample was collected ~2.5 feet below top of gully, 0.5 feet above water, over interval of 0.3 vertical feet (location near center of photograph).

ORE KNOB FORMER MINE SITE

Photograph Name: OK352 sample

Location: Tailings Impoundment

Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK352-WA-001

Subject: Waste sample OK352-WA-001. N2/N3 very moist silty, reduced tailings. Contains minor sulfides.

ORE KNOB FORMER MINE SITE

Photograph Name: OK353 location

Location: Tailings Impoundment

Orientation: South

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK353-WA-001

Subject: Waste sample location OK353 near the southern end of the tailings impoundment, 60 feet south of flush-mount well (MW-10), ~80 feet north of southwestern tailings pond (referenced to pond extent as pictured at the time of sampling).

ORE KNOB FORMER MINE SITE

Photograph Name: OK353 sample

Location: Tailings Impoundment

Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK353-WA-001

Subject: Waste sample OK353-WA-001. 0-15 inches: very fine sandy tailings, oxidized, 10YR 5/6, mostly quartz with rock fragments, trace sulfide, bottom 1 inch N7/8. 15-18 inches: black (N1-N2) silt with minor fine sand, abundant brassy sulfides, sharp contact with above.

ORE KNOB FORMER MINE SITE

Photograph Name: OK354 location

Location: Tailings Impoundment

Orientation: Northwest

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK354-WA-001

Subject: Waste sample location OK354 in the center of the tailings impoundment, ~2/3 of the way from the southwest distal end (where tributary enters) to the crest of the dam (~500 feet south of the dam crest), 10 feet south of flush-mount well (MW-11).

ORE KNOB FORMER MINE SITE

Photograph Name: OK354 sample

Location: Tailings Impoundment

Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK354-WA-001

Subject: Waste sample OK354-WA-001. Very fine sandy tailings, 10YR 5/6 in upper few inches, grading down to 2.5Y 8/2 and N7/N8, mostly quartz rock fragments and opaque yellowish white grains, trace brassy sulfide, no harpan.

ORE KNOB FORMER MINE SITE

Photograph Name: OK355 location

Location: Tailings Impoundment

Orientation: Northeast

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK355-WA-001

Subject: Waste sample location OK355 ~230 feet south of the crest of the tailings dam (~1/3 of the way from the dam crest to the southwest distal end of the impoundment), ~50 feet northwest of flush-mount well (MW-12).

ORE KNOB FORMER MINE SITE

Photograph Name: OK355 sample

Location: Tailings Impoundment

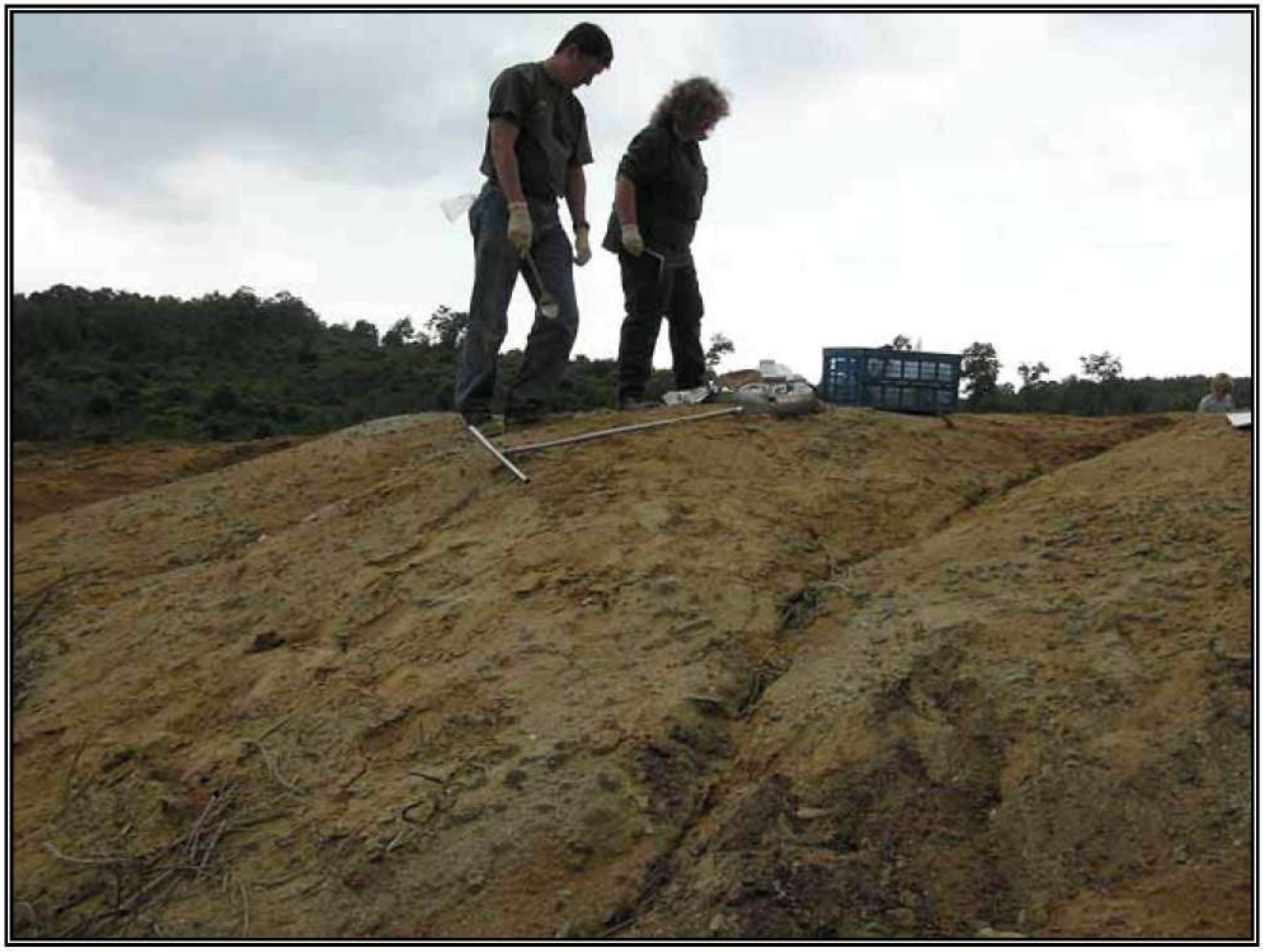
Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK355-WA-001

Subject: Waste sample OK355-WA-001. 0-8 inches: fine sandy tailings, oxidized, 10YR 5/6 – 5/8, quartz-rich with rock fragments, trace sulfide, hardpan layer of ~1 inch at base. 8-18 inches: fine sandy tailings, reduced N1/N2, quartz-rich with rock fragments, mica, and trace brassy sulfide.



ORE KNOB FORMER MINE SITE

Photograph Name: OK356 location

Location: Tailings Impoundment

Orientation: Southeast

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK356-WA-001

Subject: Waste sample location OK356 near the centerline of the tailings dam, ~2 feet below the dam crest.

ORE KNOB FORMER MINE SITE

Photograph Name: OK356 sample

Location: Tailings Impoundment

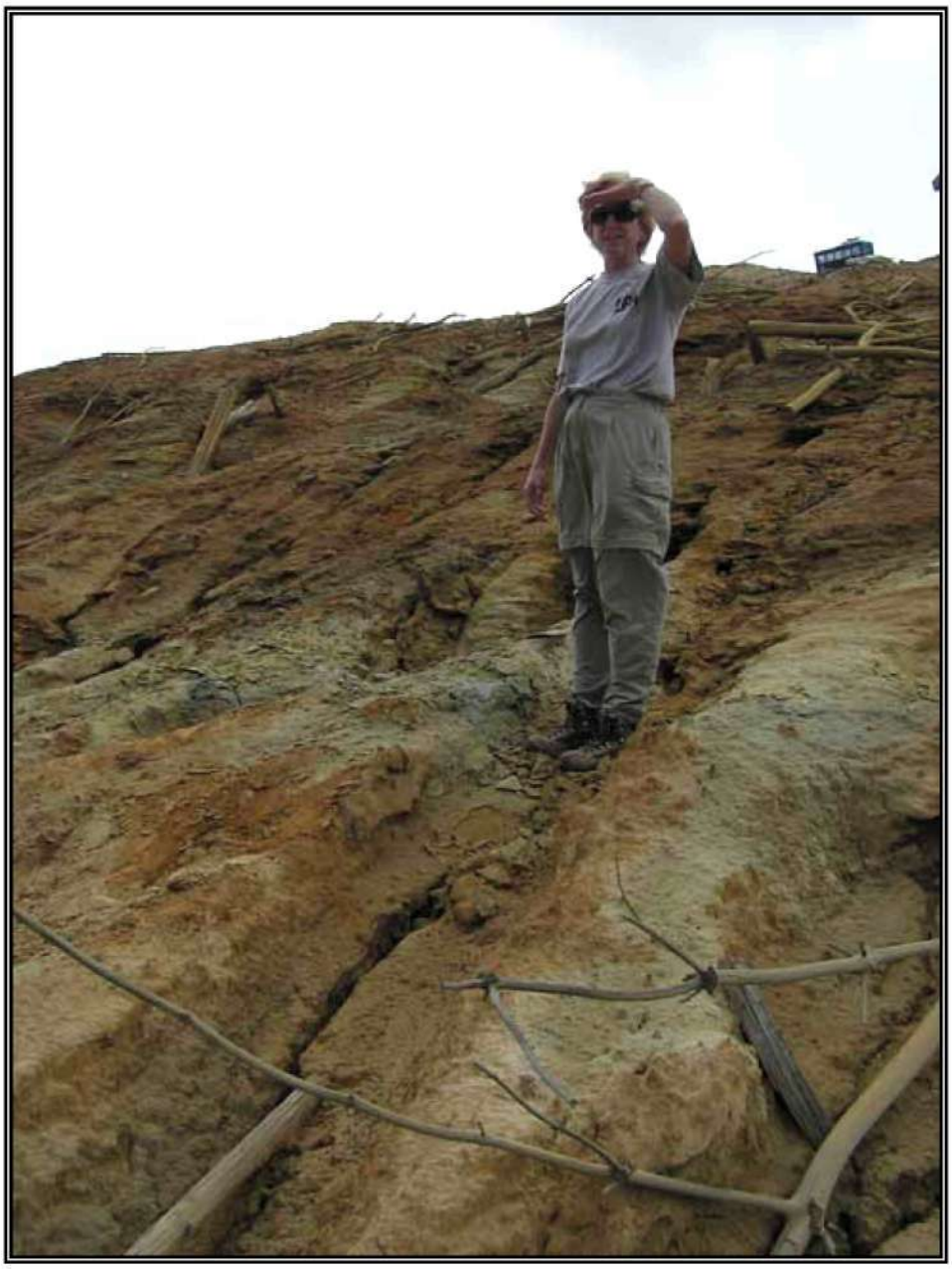
Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK356-WA-001

Subject: Waste sample OK356-WA-001. 2.5Y 6/6 to 2.5Y 4/4, fine sandy tailings with some moderately hardpan-like layers indurated with darker brown 2.5Y 4/4 sandy material with trace brassy sulfides. ~10-12 inches: as before, mostly quartz and rock fragments with some yellowish opaque salts and minor sulfides.



ORE KNOB FORMER MINE SITE

Photograph Name: OK357 location

Location: Tailings Impoundment

Orientation: Southeast

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK357-WA-001

Subject: Waste sample location OK357 near the centerline of the tailings dam about halfway up the dam face, ~1 meter below the transition from yellowish tan to reddish brown.

ORE KNOB FORMER MINE SITE

Photograph Name: OK357 sample

Location: Tailings Impoundment

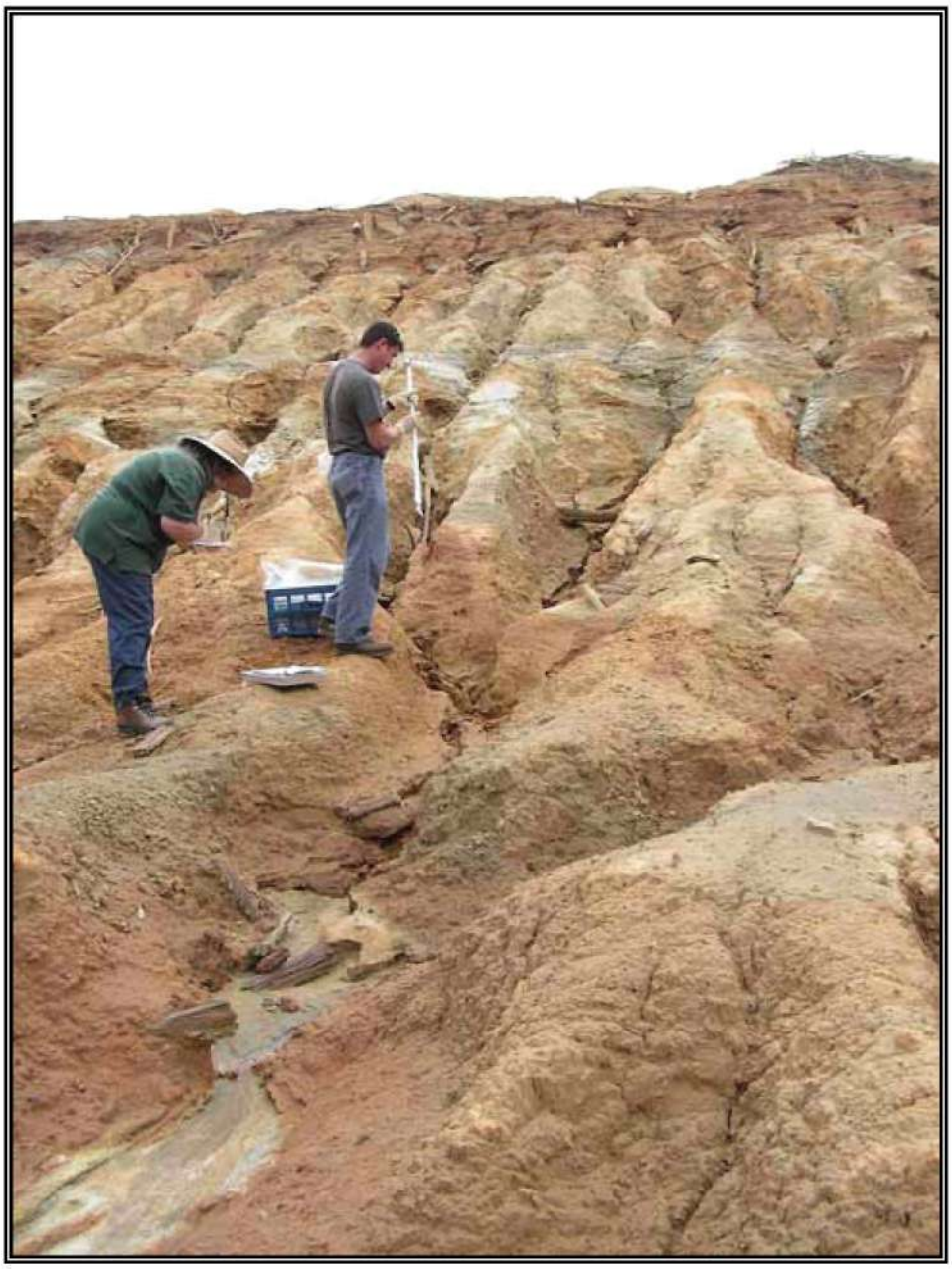
Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK357-WA-001

Subject: Waste sample OK357-WA-001. Sandy tailings (fine to medium sand), mostly quartz and rock fragments with some opaque yellowish salts, mostly 2.5YR 4/8 to 7.5YR 5/8 with minor 2.5Y 7/4, layering not apparent, trace brassy sulfide.



ORE KNOB FORMER MINE SITE

Photograph Name: OK358 location

Location: Tailings Impoundment

Orientation: Southeast

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK358-WA-001

Subject: Waste sample location OK358 near the centerline of the tailings dam about 5 feet above tailings starter dam contact (near the base of the upper slope).

ORE KNOB FORMER MINE SITE

Photograph Name: OK358 sample

Location: Tailings Impoundment

Orientation: n/a

Date: July 17, 2007

Photographer: Tom Moyer, B&V

Sample: OK358-WA-001

Subject: Waste sample OK358-WA-001. Sandy tailings (fine to medium sand), mostly 2.5Y 7/4 with shades of 2.5YR 4/8 to 7.5YR 5/8, mostly quartz with subordinate rock fragments and dark grains, no sulfide noted.

ORE KNOB FORMER MINE SITE

Photograph Name: tailings-seeps-armoring

Location: Tailings Impoundment

Orientation: Southeast

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: n/a

Subject: Close-up of iron precipitate armoring near the base of the tailings dam upper slope; in vicinity of where major seeps emanate from the dam face.

ORE KNOB FORMER MINE SITE

Photograph Name: tailings-impoundment-dam

Location: Tailings Impoundment

Orientation: Southwest

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: n/a

Subject: Tailings dam upper slope. Major seeps emanate near the base of this slope (above the marsh grass shown on the center-right of the photograph).

ORE KNOB FORMER MINE SITE

Photograph Name: tailingsdam

Location: Tailings Impoundment

Orientation: Northeast

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Crest of the tailings dam and the upper slope.

ORE KNOB FORMER MINE SITE

Photograph Name: tailingsdam2

Location: Tailings Impoundment

Orientation: Southeast

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Looking directly at the face of the tailings dam from the lower settling pond; water flows out of a culvert directly behind the photographer to form the headwaters of Ore Knob Branch.

ORE KNOB FORMER MINE SITE

Photograph Name: tailingsimpoundmentview

Location: Tailings Impoundment

Orientation: Southeast

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Top surface of the tailings impoundment taken from the road at the crest of the tailings dam.

ORE KNOB FORMER MINE SITE

Photograph Name: culvert_basetailingsdam

Location: Tailings Impoundment

Orientation: Southwest

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Culvert pipe below the settling pond, below the tailings impoundment. Water from the tailing impoundment flows out of the culvert to form the headwaters of Ore Knob Branch.

ORE KNOB FORMER MINE SITE

Photograph Name: flowintopipe2

Location: Tailings Impoundment

Orientation: Northwest

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Flow from a small tributary that enters the southwestern portion of the tailings impoundment. This flow enters a pipe near the center of the photo and is conveyed under the tailings impoundment to the base of the tailings dam. Photograph taken during recon prior to field sampling; the pipe inlet was partially blocked and a pond formed in this area during sampling in July 2007.

ORE KNOB FORMER MINE SITE

Photograph Name: flowintopipe

Location: Tailings Impoundment

Orientation: n/a

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Inlet to the pipe that conveys water underneath the tailings impoundment, located near station OK006 in the southwestern portion of the tailings impoundment. Flow is from a small tributary that enters the southwest corner of the impoundment. Pipe inlet was blocked and covered by a pond during sampling in July 2007.

ORE KNOB FORMER MINE SITE

Photograph Name: watercontroltailings

Location: Tailings Impoundment

Orientation: Southeast

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Concrete water control structure for tailings impoundment. Structure is located in the southwestern portion of the impoundment, the outlet is near station OK006.

ORE KNOB FORMER MINE SITE

Photograph Name: wellfield

Location: Tailings Impoundment

Orientation: Northeast

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Well field southwest of the northeast pond on the tailings impoundment (pond is in the background of the photograph).

DOWNSTREAM RECEIVING WATERS
(Photograph Log)

ORE KNOB FORMER MINE SITE

Photograph Name: tribabovetailings

Location: Ore Knob Branch

Orientation: Southwest

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Looking upstream along the small tributary flowing into the southwest corner of the tailings impoundment. Tributary is channelized for some of its length along the berm shown.

ORE KNOB FORMER MINE SITE

Photograph Name: OK001-SW-001_location

Location: Ore Knob Branch

Orientation: West

Date: July 19, 2007

Photographer: Michael Johnsen, B&V

Sample: OK001-SW-001

Subject: Below 19th century ops area between 1990s ALDs and tailings. Sample collected from small tributary flowing into the southwest corner of tailings impoundment, ~500 upstream of tailings impoundment. Substrate is armored with iron precipitate.

ORE KNOB FORMER MINE SITE

Photograph Name: OK001-SD-001_sample

Location: Ore Knob Branch

Orientation: n/a

Date: July 19, 2007

Photographer: Michael Johnsen, B&V

Sample: OK001-SD-001

Subject: Sediment sample co-located with OK001-SW-001; well-graded light-brown/orange gravelly sand.

ORE KNOB FORMER MINE SITE

Photograph Name: OK013-F_location

Location: Ore Knob Branch

Orientation: North

Date: July 19, 2007

Photographer: Brian Striggow, SESD

Sample: n/a

Subject: Flow measurements being taken from transect OK013 in Ore Knob Branch, ~220 feet downstream of culvert pipe (where water from the tailings dam sediment pond is focused into a channelized creek). Creek is 10 feet wide at sampling point, substrate is armored with precipitate. Surface water and sediment samples were collected at this location.

ORE KNOB FORMER MINE SITE

Photograph Name: OK014-SW-001_location

Location: Ore Knob Branch

Orientation: Southeast

Date: July 18, 2007

Photographer: Brian Striggow, SESD

Sample: OK014-SW-001

Subject: Sampling and flow measurement location OK014 located in Ore Knob Branch ~90 upstream from the confluence with Peak Creek.

ORE KNOB FORMER MINE SITE

Photograph Name: OK014-SD-001_sample

Location: Ore Knob Branch

Orientation: n/a

Date: July 18, 2007

Photographer: Brian Striggow, SESD

Sample: OK014-SD-001

Subject: Sediment sample co-located with sample OK014-SW-001; orange medium to fine sand.

ORE KNOB FORMER MINE SITE

Photograph Name: OK200-SL-001_location

Location: Ore Knob Branch

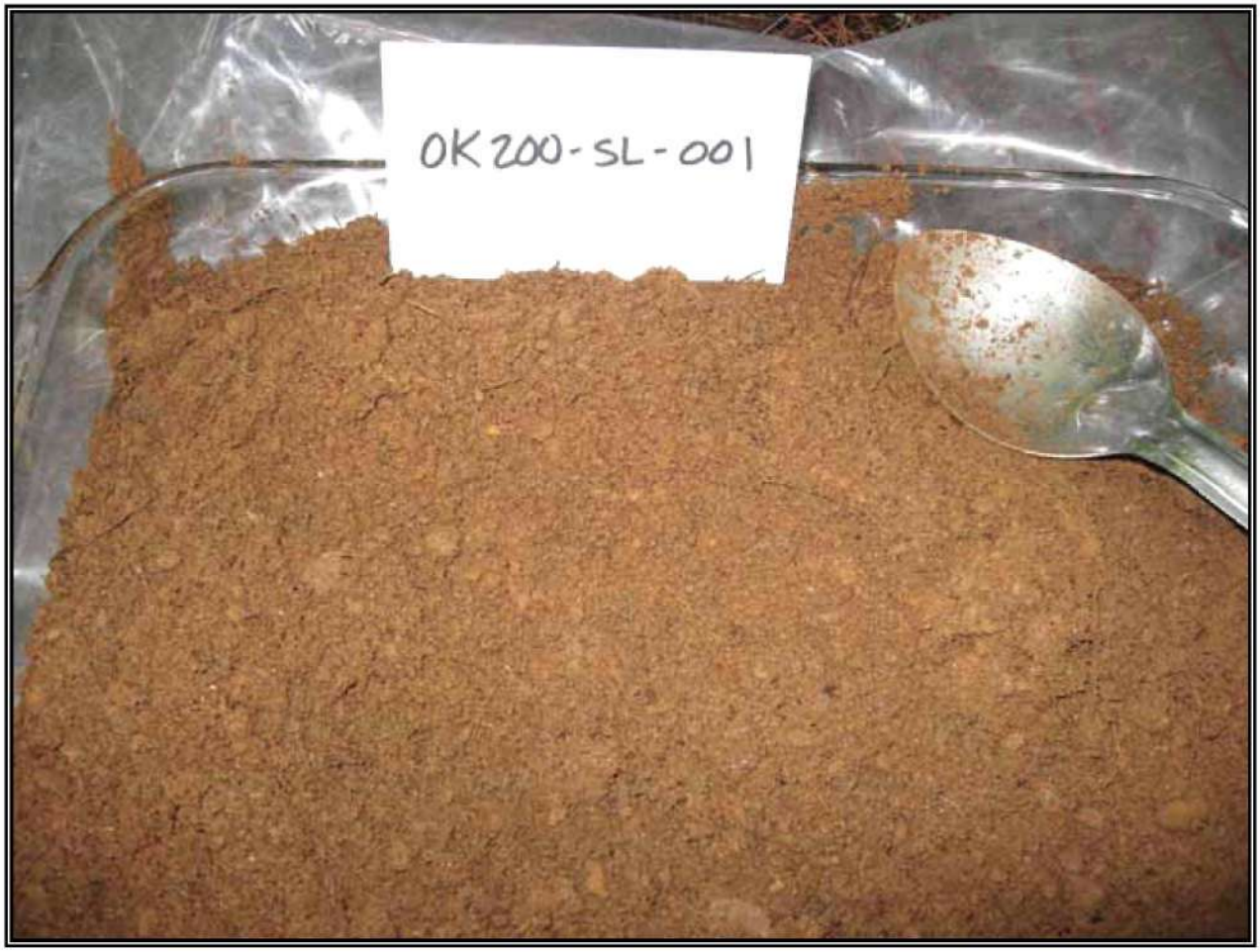
Orientation: Southwest

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK200-SL-001

Subject: Sample collected along the right bank of Ore Knob Branch, ~90 feet upstream of confluence with Peak Creek, 10' back from waters edge.



ORE KNOB FORMER MINE SITE

Photograph Name: OK200-SL-001_sample

Location: Ore Knob Branch

Orientation: n/a

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK200-SL-001

Subject: Floodplain soil sample OK200-SL-001. Light-brown/orange fine micaceous sand with trace silt and clay; root debris on the top 2 inches.

ORE KNOB FORMER MINE SITE

Photograph Name: OK201-SL-001_location2

Location: Ore Knob Branch

Orientation: Northeast

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK201-SL-001

Subject: Sample collected from the left bank of Ore Knob Branch, ~90 feet upstream of confluence with Peak Creek, 6' back from waters edge.

ORE KNOB FORMER MINE SITE

Photograph Name: OK201-SL-001_sample

Location: Ore Knob Branch

Orientation: n/a

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK201-SL-001

Subject: Floodplain soil sample OK201-SL-001. Light-brown/orange loose fine micaceous sand with minor roots in upper 2 inches.

ORE KNOB FORMER MINE SITE

Photograph Name: oreknobbranch-peakcreek

Location: Ore Knob Branch

Orientation: Southeast

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: The confluence of Ore Knob Branch with Peak Creek. Note the orange-stained sediment at the confluence and along the bank of Peak Creek upstream and downstream of the confluence.

ORE KNOB FORMER MINE SITE

Photograph Name: OK021_location

Location: Little Peak Creek

Orientation: Southwest

Date: July 15, 2007

Photographer: Brian Striggow, EPA

Sample: OK021-SW-001

Subject: Samples collected from Little Peak Creek ~340 feet upstream of confluence with Peak Creek. Surface water and sediment samples were collected from the center of the creek. Flow measurements were also made at this location.

ORE KNOB FORMER MINE SITE

Photograph Name: OK021-SD-001_sample

Location: Little Peak Creek

Orientation: n/a

Date: July 15, 2007

Photographer: Brian Striggow, EPA

Sample: OK021-SD-001

Subject: Sediment sample co-located with sample OK021-SW-001. Medium brown medium sand.

ORE KNOB FORMER MINE SITE

Photograph Name: OK022_location

Location: Little Peak Creek

Orientation: Southwest

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK022-SW-001

Subject: Low Gap Branch of Little Peak Creek (confluence near the intersection of Low Gap Church Road and Little Peak Creek Road). Samples collected ~440 feet upstream of confluence with Little Peak Creek, ~10 feet upstream of road culvert (shown in the bottom portion of the photograph), south side of Low Gap Church Road.

ORE KNOB FORMER MINE SITE

Photograph Name: OK022_location2

Location: Little Peak Creek

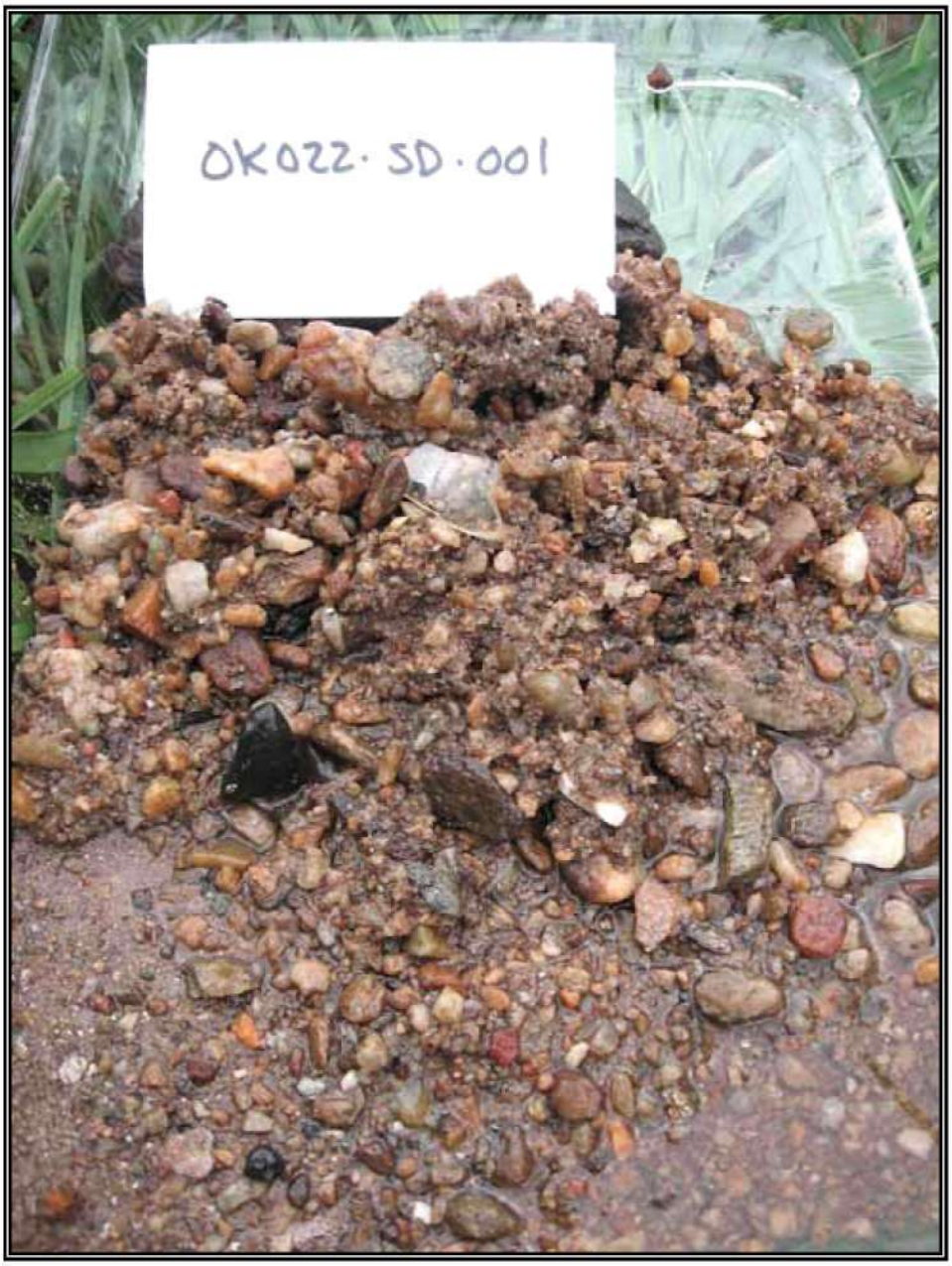
Orientation: Northeast

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK022-SW-001

Subject: Close-up of road culvert conveying the Low Gap Branch under Low Gap Church Road. Photograph taken from the south side of the road.



ORE KNOB FORMER MINE SITE

Photograph Name: OK022-SD-001_sample

Location: Little Peak Creek

Orientation: n/a

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK022-SD-001

Subject: Sediment sample co-located with sample OK022-SW-001. Light-brown medium sand with minor gravel; some gravel-sized schist flakes.

ORE KNOB FORMER MINE SITE

Photograph Name: OK022_acrossroad

Location: Little Peak Creek

Orientation: Northeast

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: n/a

Subject: Low Gap Branch of Little Peak Creek. Looking downstream towards the confluence with Little Peak Creek, north side of Low Gap Church Road.

ORE KNOB FORMER MINE SITE

Photograph Name: OK023_location

Location: Little Peak Creek

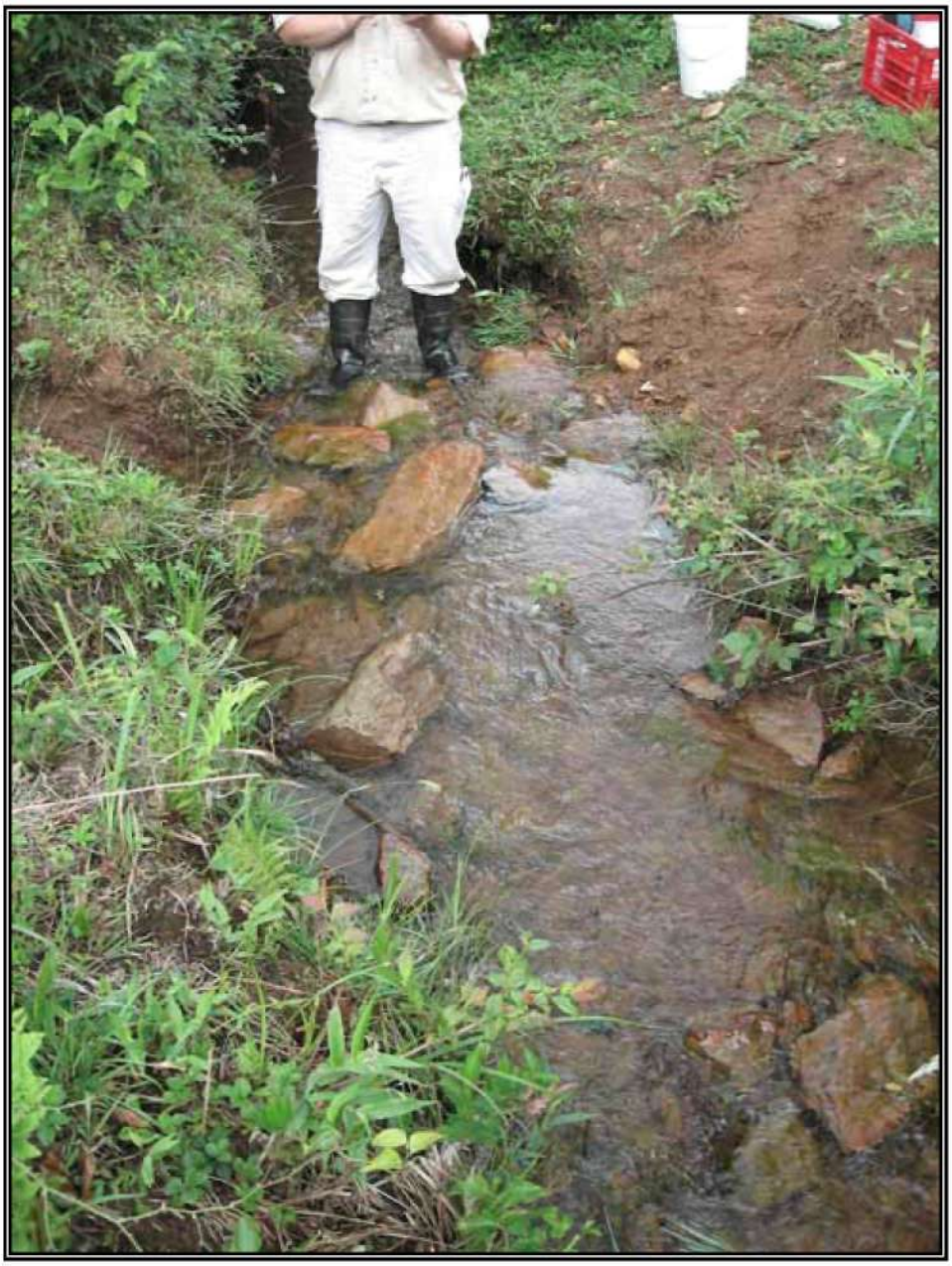
Orientation: Northeast

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK023-SW-001

Subject: View of station OK023 along Little Peak Creek (right-center of photograph). Samples collected ~660 feet upstream of confluence with Low Gap Branch, ~110 feet downstream of road culvert, west side of Little Peak Creek Road (in background), north side of Low Gap Church Road (behind photographer).



ORE KNOB FORMER MINE SITE

Photograph Name: OK023_location3

Location: Little Peak Creek

Orientation: Northwest

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK023-SW-001

Subject: Station OK023 in Little Peak Creek, ~660 feet upstream of confluence with Low Gap Branch.

ORE KNOB FORMER MINE SITE

Photograph Name: OK023-SD-001_sample

Location: Little Peak Creek

Orientation: n/a

Date: July 18, 2007

Photographer: Michael Johnsen, B&V

Sample: OK023-SD-001

Subject: Sediment sample co-located with OK023-SW-001. Light-brown, well-graded sandy gravel.

ORE KNOB FORMER MINE SITE

Photograph Name: OK024_location

Location: Little Peak Creek

Orientation: Southeast

Date: July 19, 2007

Photographer: Brian Striggow, EPA

Sample: OK024-SW-001

Subject: Station OK024 in a narrow channel inside of the breached dam below the former freshwater pond (north of the former mill site). Flow measurements were taken at this location.

ORE KNOB FORMER MINE SITE

Photograph Name: OK024-weir

Location: Little Peak Creek

Orientation: n/a

Date: July 19, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Small weir installation at station OK024 in small rectangular channel inside of the breached dam below the former freshwater pond. A single point flow measurement was made using this weir.

ORE KNOB FORMER MINE SITE

Photograph Name: OK024-SD-001_sample

Location: Little Peak Creek

Orientation: n/a

Date: July 18, 2007

Photographer: Brian Striggow, EPA

Sample: OK024-SD-001

Subject: Sediment sample co-located with OK024-SW-001. Red-orange to brown medium sand with trace angular gravel.

ORE KNOB FORMER MINE SITE

Photograph Name: OK025_location

Location: Little Peak Creek

Orientation: Northwest

Date: July 19, 2007

Photographer: Brian Striggow, EPA

Sample: OK025-SW-001

Subject: Location of station OK025 ~430 feet "upstream" of former freshwater pond, ~80 feet down slope from the mill site. Sample SW-001 collected from the base of the sawmill stump pile.

ORE KNOB FORMER MINE SITE

Photograph Name: OK025-SD-001_sample

Location: Little Peak Creek

Orientation: n/a

Date: July 19, 2007

Photographer: Brian Striggow, EPA

Sample: OK025-SD-001

Subject: Sediment sample co-located with OK025-SW-001, collected 30' east of the base of the stump pile. Orange-red medium sand with minor angular gravel.

ORE KNOB FORMER MINE SITE

Photograph Name: OK202-203_location

Location: Little Peak Creek

Orientation: Northeast

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK202-SL-001, OK203-SL-001

Subject: Looking downstream on Little Peak Creek at stations OK202 and OK203. Floodplain soil samples were collected from the left and right bank ~70 feet upstream of confluence with Peak Creek.

ORE KNOB FORMER MINE SITE

Photograph Name: OK202-SL-001_location2

Location: Little Peak Creek

Orientation: n/a

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK202-SL-001

Subject: Floodplain soil sample collected from the right bank of Little Peak Creek ~60 feet above the confluence with Peak Creek. Sample collected using a stainless steel hand auger.

ORE KNOB FORMER MINE SITE

Photograph Name: OK426_location

Location: Little Peak Creek

Orientation: West

Date: July 19, 2007

Photographer: Brian Striggow, EPA

Sample: OK426-SL-001

Subject: Grass covered sediment pile below breached dam at the northern end of the former freshwater pond (in the Little Peak Creek headwaters). Sample collected ~50 feet downstream from breached dam.

ORE KNOB FORMER MINE SITE

Photograph Name: OK426-SL-001_sample

Location: Little Peak Creek

Orientation: n/a

Date: July 19, 2007

Photographer: Brian Striggow, EPA

Sample: OK426-SL-001

Subject: Soil sample collected at station OK426. Orange fine sand and silt.

ORE KNOB FORMER MINE SITE

Photograph Name: freshwaterpond

Location: Little Peak Creek

Orientation: Northwest

Date: May 17, 2007

Photographer: Brian Striggow

Sample: n/a

Subject: Facing upstream at the headwaters of Little Peak Creek towards the breached dam at the northern end of the former freshwater pond. Near location of station OK024.

ORE KNOB FORMER MINE SITE

Photograph Name: OK015-F_location

Location: Peak Creek

Orientation: Northeast

Date: July 18, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Looking upstream on Peak Creek at station OK015. Samples were collected ~200 feet upstream of confluence with Ore Knob Branch. Flow measurements were made at this location.

ORE KNOB FORMER MINE SITE

Photograph Name: OK015-SD-001_sample

Location: Peak Creek

Orientation: n/a

Date: July 18, 2007

Photographer: Brian Striggow, EPA

Sample: OK015-SD-001

Subject: Sediment sample co-located with OK015-SW-001. Brown fine sand with trace large gravel.

ORE KNOB FORMER MINE SITE

Photograph Name: OK016-F_location

Location: Peak Creek

Orientation: Northeast

Date: July 18, 2007

Photographer: Brian Striggow, EPA

Sample: OK016-SW-001, -002, -003

Subject: Station OK016 ~60 feet downstream of confluence with Ore Knob Branch, ~6 feet upstream of bridge (shadow shown in foreground). Surface water and sediment samples -001 collected 6 feet from left bank, -002 16 feet from left bank, -003 6 feet from right bank. Flow measurements were made at this location.

ORE KNOB FORMER MINE SITE

Photograph Name: OK016-SD-001_sample

Location: Peak Creek

Orientation: n/a

Date: July 18, 2007

Photographer: Brian Striggow, EPA

Sample: OK016-SD-001

Subject: Sediment sample co-located with OK016-SW-001, collected 6 feet from left bank. Brown fine sand with trace yellow floc.

ORE KNOB FORMER MINE SITE

Photograph Name: OK016-SD-002_sample

Location: Peak Creek

Orientation: n/a

Date: July 18, 2007

Photographer: Brian Striggow, EPA

Sample: OK016-SD-002

Subject: Sediment sample co-located with OK016-SW-002, collected 16 feet from left bank. Brown fine sand with trace yellow floc and gray clay.

ORE KNOB FORMER MINE SITE

Photograph Name: OK016-SD-003_sample

Location: Peak Creek

Orientation: n/a

Date: July 18, 2007

Photographer: Brian Striggow, EPA

Sample: OK016-SD-003

Subject: Sediment sample co-located with OK016-SW-003, collected 6 feet from right bank. Medium brown medium to fine sand.

ORE KNOB FORMER MINE SITE

Photograph Name: OK017-F_location

Location: Peak Creek

Orientation: Southwest

Date: July 18, 2007

Photographer: Brian Striggow, EPA

Sample: OK017-SW-001

Subject: Station OK017 on Peak Creek ~440 feet upstream of confluence with Little Peak Creek. Samples were collected from the center of the creek. Flow measurements were made at this location.

ORE KNOB FORMER MINE SITE

Photograph Name: OK017-SD-001_sample

Location: Peak Creek

Orientation: n/a

Date: July 18, 2007

Photographer: Brian Striggow, EPA

Sample: OK017-SD-001

Subject: Sediment sample co-located with OK017-SW-001, collected from the center of the creek. Reddish-brown fine sand with trace gray silt/clay and orange floc.

ORE KNOB FORMER MINE SITE

Photograph Name: OK018-F_location

Location: Peak Creek

Orientation: Northwest

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK018-SW-001, -002, -003

Subject: Station OK018 on Peak Creek ~490 feet downstream of confluence with Little Peak Creek. Sample SW-001 collected 5 feet from right bank, -002 in center of creek, -003 5 feet from right bank. Flow measurements were made at this location.

ORE KNOB FORMER MINE SITE

Photograph Name: OK018-SD-001_sample

Location: Peak Creek

Orientation: n/a

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK018-SD-001

Subject: Sediment sample collected 3-4 feet from right bank. Reddish-brown medium to fine sand with dark gray clay on the surface.

ORE KNOB FORMER MINE SITE

Photograph Name: OK018-SD-002_sample

Location: Peak Creek

Orientation: n/a

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK018-SD-002

Subject: Sediment sample collected from center of the creek. Reddish-brown sand with dark gray organic material on the surface. Apparent iron precipitate underneath organic material.

ORE KNOB FORMER MINE SITE

Photograph Name: OK018-SD-003_sample

Location: Peak Creek

Orientation: n/a

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK018-SD-003

Subject: Sediment sample collected 3-4 feet from left bank. Reddish-brown fine sand.

ORE KNOB FORMER MINE SITE

Photograph Name: OK204-SL-001_location

Location: Peak Creek

Orientation: North

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK204-SL-001

Subject: Station OK204 on left bank of Peak Creek ~40 feet upstream of confluence with South Fork New River, 10 feet back from waters edge.

ORE KNOB FORMER MINE SITE

Photograph Name: OK204-SL-001_sample

Location: Peak Creek

Orientation: n/a

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK204-SL-001

Subject: Floodplain soil sample from left bank of Peak Creek ~40 feet upstream of confluence with South Fork New River. Light to medium brown loam.

ORE KNOB FORMER MINE SITE

Photograph Name: OK205-SL-001_location

Location: Peak Creek

Orientation: Northwest

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK205-SL-001

Subject: Station OK205 near confluence of Peak Creek with South Fork New River. Sample collected 20 feet into a field across the road to the southeast of the confluence.

ORE KNOB FORMER MINE SITE

Photograph Name: OK205-SL-001_sample

Location: Peak Creek

Orientation: n/a

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK205-SL-001

Subject: Floodplain soil sample collected near the confluence of Peak Creek with South Fork New River. Gray to brown loam.

ORE KNOB FORMER MINE SITE

Photograph Name: peakcreek-oreknobbranch

Location: Peak Creek

Orientation: Northeast

Date: May 17, 2007

Photographer: Brian Striggow, EPA

Sample: n/a

Subject: Peak Creek immediately below the confluence with Ore Knob Branch, looking upstream. Note the orange substrate along the right bank of Peak Creek downstream of the confluence with Ore Knob Branch (far bank in the photograph).

ORE KNOB FORMER MINE SITE

Photograph Name: OK019-F_location

Location: South Fork New River

Orientation: West

Date: July 17, 2007

Photographer: unknown

Sample: OK019-SW-001 through -005

Subject: Station OK019 on the South Fork New River ~600 feet downstream of confluence with Peak Creek. Sample SW-001 collected 104 feet from the right bank, SW-002 74 feet from the right bank, SW-003 60 feet from the right bank, SW-004 44 feet from the right bank, and SW-005 24 feet from the right bank. Flow measurements were made at this location.

ORE KNOB FORMER MINE SITE

Photograph Name: OK019-SD-001_sample

Location: South Fork New River

Orientation: n/a

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK019-SD-001

Subject: Sediment sample collected 30 feet from the left bank. Medium brown medium to fine sand with trace small gravel.

ORE KNOB FORMER MINE SITE

Photograph Name: OK019-SD-002_sample

Location: South Fork New River

Orientation: n/a

Date: July 17, 2007

Photographer: Brian Striggow, EPA

Sample: OK019-SD-002

Subject: Sediment sample collected from the center of the river. Medium brown medium to fine sand with trace small gravel.

ORE KNOB FORMER MINE SITE

Photograph Name: OK020_location

Location: South Fork New River

Orientation: West

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK020-SW-001

Subject: View of the South Fork New River near station OK020 ~500 feet upstream of confluence with Peak Creek. Samples were collected in center of the river ~5 meters upstream of small island (in the upper right corner of the photograph).

ORE KNOB FORMER MINE SITE

Photograph Name: OK020-SD-001_sample

Location: South Fork New River

Orientation: n/a

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK020-SD-001

Subject: Sediment sample co-located with OK020-SW-001, collected from the center of the river. Light-brown gravelly medium to coarse sand with subangular micaceous fines. Contains trace cobbles and clams.

ORE KNOB FORMER MINE SITE

Photograph Name: OK026-SD-001_sample

Location: South Fork New River

Orientation: n/a

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK026-SD-001

Subject: Sediment sample co-located with OK026-SW-002, collected in the river center ~1520 feet downstream of confluence with Peak Creek. Light-brown fine to medium sand with trace gravel.

ORE KNOB FORMER MINE SITE

Photograph Name: OK026-SD-002_sample

Location: South Fork New River

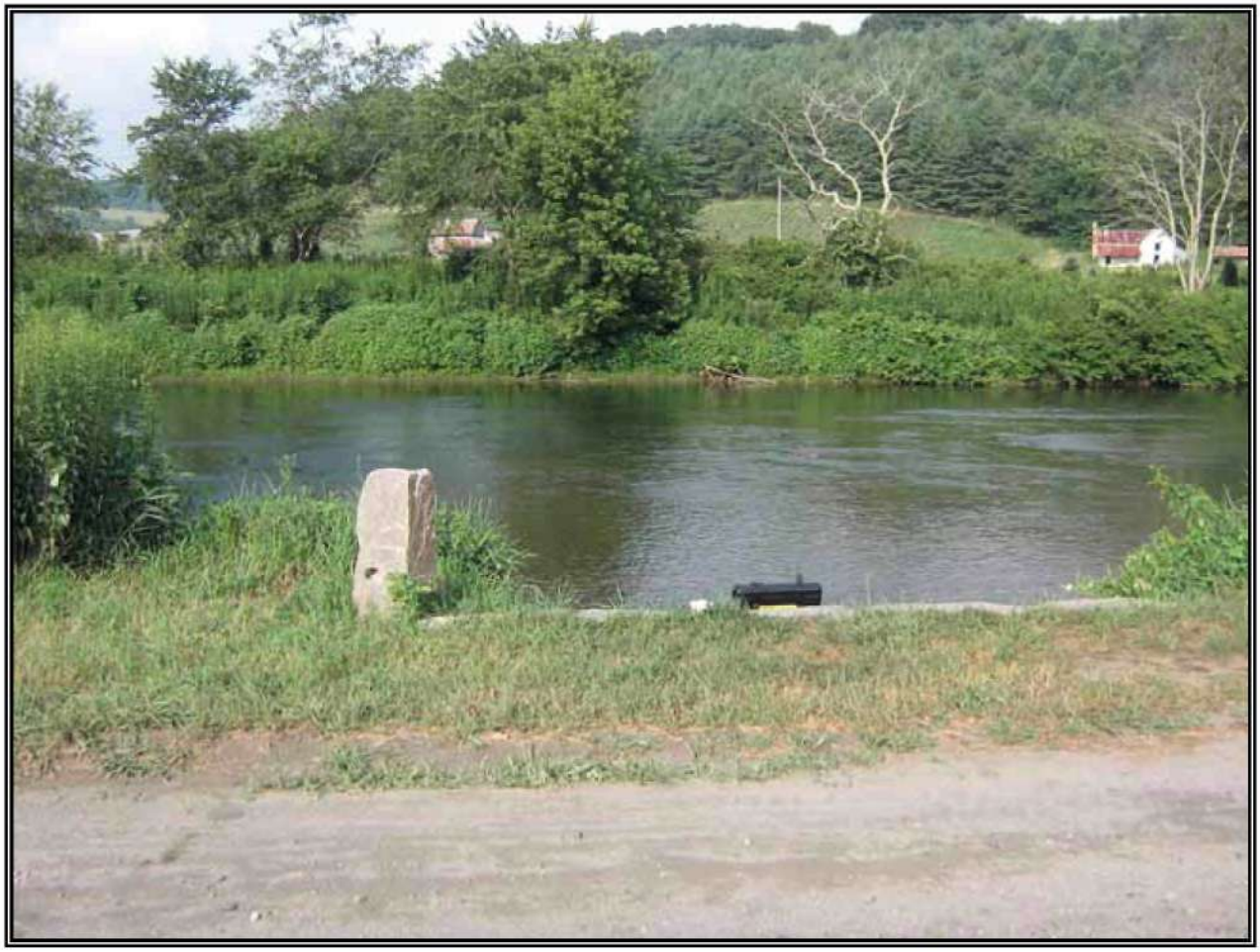
Orientation: n/a

Date: July 17, 2007

Photographer: Michael Johnsen, B&V

Sample: OK026-SD-002

Subject: Sediment sample co-located with OK026-SW-003, collected 9 feet from the right bank of the river ~1520 feet downstream of confluence with Peak Creek. Light-brown micaceous medium to coarse sand with minor gravel.



ORE KNOB FORMER MINE SITE

Photograph Name: OK027_location

Location: South Fork New River

Orientation: West

Date: July 19, 2007

Photographer: Brian Striggow, EPA

Sample: OK027-SW-001

Subject: South Fork New River ~1900 feet downstream of confluence with Peak Creek. Samples were collected in center of river.

ORE KNOB FORMER MINE SITE

Photograph Name: OK027-SD-001_sample

Location: South Fork New River

Orientation: n/a

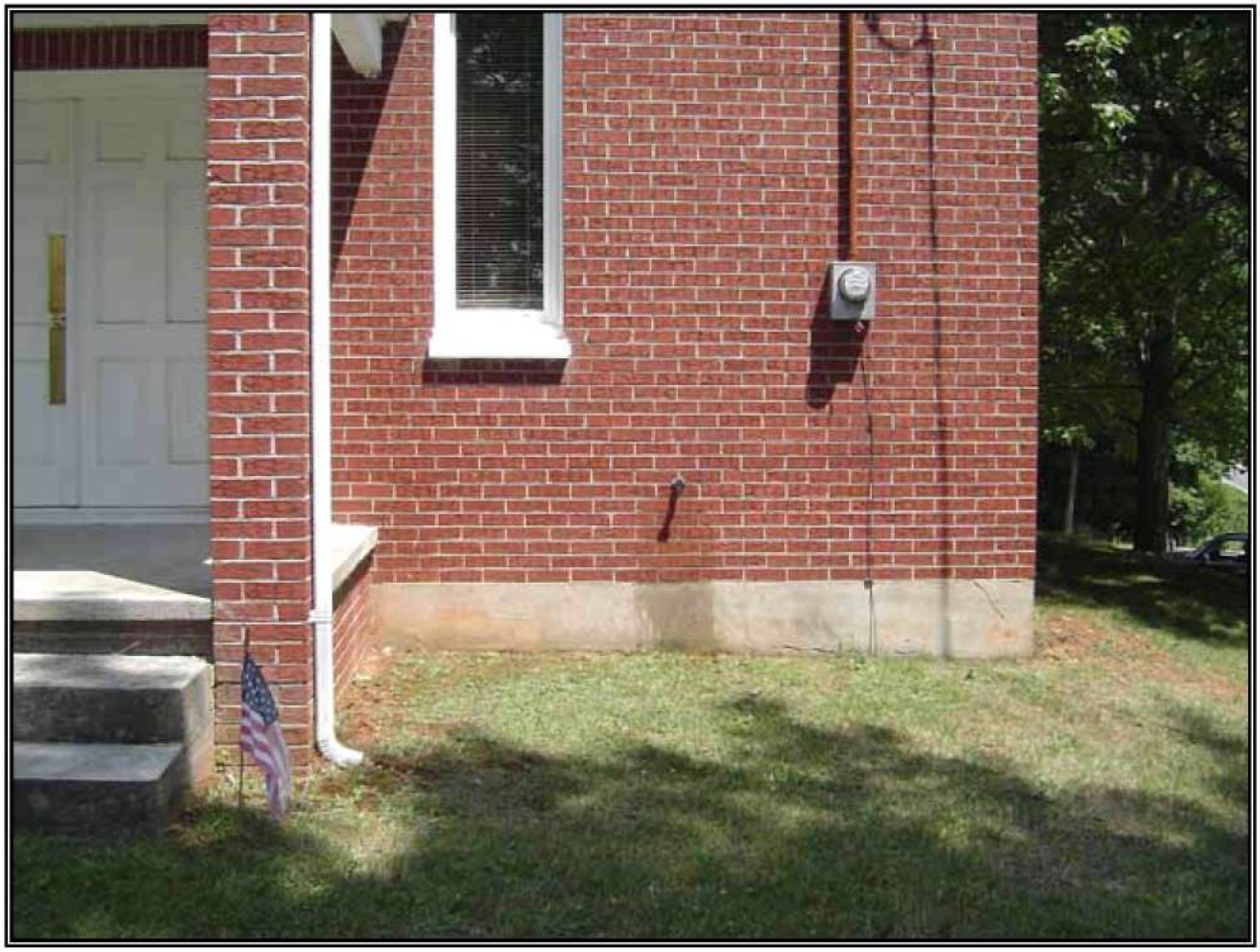
Date: July 19, 2007

Photographer: Brian Striggow, EPA

Sample: OK027-SD-001

Subject: Sediment sample co-located with OK027-SW-001. Brown medium sand with trace fine gravel.

RESIDENTIAL WELLS
(Photograph Log)



ORE KNOB FORMER MINE SITE

Photograph Name: OK701-DW-001_location

Location: Residential Well

Orientation: unknown

Date: July 18, 2007

Photographer: EPA

Sample: OK701-DW-001

Subject: Outside spigot at the Roan Creek church property, located along highway 88 ~1 mile west of the intersection of the highway with Ore Knob Road.

ORE KNOB FORMER MINE SITE

Photograph Name: OK702-DW-001_location2

Location: Residential Well

Orientation: unknown

Date: July 18, 2007

Photographer: EPA

Sample: OK702-DW-001

Subject: Outside spigot on the property of Jimmy Tripp, 137 Hunters Lane, Jefferson, NC 28640, located due west of the former freshwater pond, ~520 feet east of Little Peak Creek Road.

ORE KNOB FORMER MINE SITE

Photograph Name: OK703-DW-001_location2

Location: Residential Well

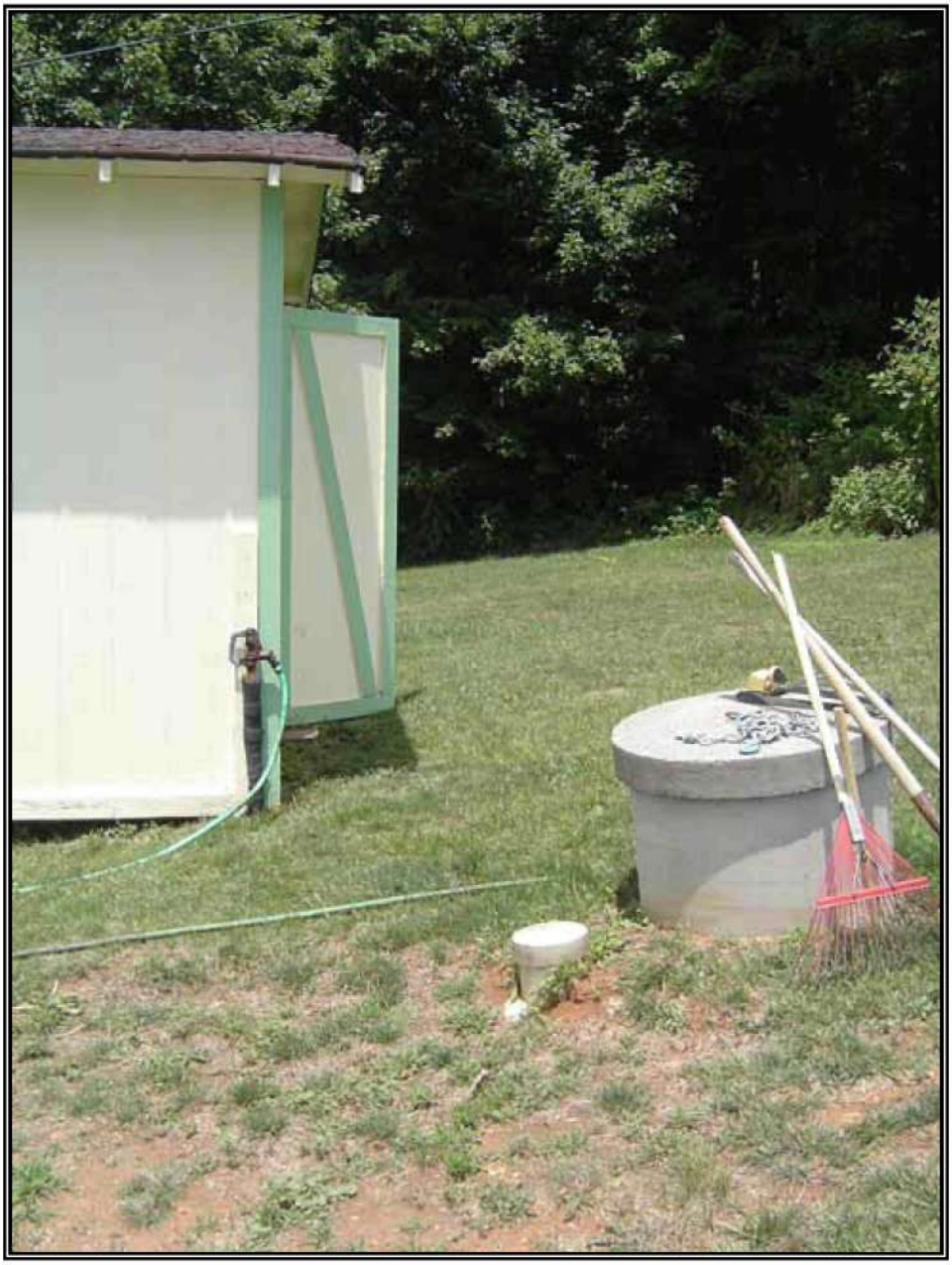
Orientation: unknown

Date: July 18, 2007

Photographer: EPA

Sample: OK703-DW-001

Subject: Spring pumphouse on the property of Ronnie Bare, located ~370 feet south-southeast of the 19th Century mining area, ~590 feet east of the road that runs through the mining area.



ORE KNOB FORMER MINE SITE

Photograph Name: OK704-DW-001_location

Location: Residential Well

Orientation: unknown

Date: July 18, 2007

Photographer: EPA

Sample: OK704-DW-001

Subject: Well pumphouse spigot on the property of Gene Lewis, 135 Ore Knob Mine Road, located ~190 feet south of former shaft 3-S between the 19th Century operations area and the former mill site.

ORE KNOB FORMER MINE SITE

Photograph Name: OK705-DW-001_location

Location: Residential Well

Orientation: unknown

Date: July 18, 2007

Photographer: EPA

Sample: OK705-DW-001

Subject: Outside spigot on the property of Kenneth Bare, 201 Ore Knob Mine Road, located ~340 feet southeast of former shaft 3-S between the 19th Century operations area and the former mill site.

APPENDIX F

Laboratory Data Sheets
(electronic, PDF files)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

September 19, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
07-0507, Ore Knob Mine Site
Superfund Remedial

FROM: Denise Goddard
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Brian Striggow

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Classical/Nutrient Analyses (CNA)	
Cyanide	CLP Inorganics
Total Metals (TMTL)	
Total Mercury	CLP Inorganics
Total Metals	CLP Inorganics

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Report Narrative

Data Review and Validation Report
Site Name: Ore Knob Mine Site, Jefferson, NC
Case No. 36622, Project No. 07-0507, Work Order No. C073006 & C073101
ELEMENT Nos. C073006-01 - C073006-96, C093101-26 - C073101-27
Sampling Dates: 07/17-19/07
Inorganic Analysis: CompuChem, Cary, NC
Date Received from Lab: 08/15/07
Analyses conducted: Total metals, mercury, cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 98 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below and in the attached review summary form.

ICP-AES Analysis

Examination of blank samples revealed apparent low-level contamination with several elements listed in Table 1. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

Matrix spiked sample recovery for antimony in SDG MD4497 was 7%. All sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for arsenic, cadmium, manganese, selenium, and thallium in SDG MD4497 were all outside the control limits of 75 to 125%. All sample results for arsenic, cadmium, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and zinc in SDG MD44C2 were 16 and -70% respectively. In addition, the matrix duplicate relative percent difference for zinc in SDG MD44C2 was 114%. All sample results for antimony and zinc in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony and zinc in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recovery for antimony and selenium in SDG MD44L2 were both 67%. In addition, the serial dilution percent difference for selenium in the above SDG was 15%. All sample results for antimony in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and thallium in SDG MD44E5 were 65 and 68% respectively. All sample results for antimony and thallium were considered estimated and flagged "J".

Matrix spiked sample recoveries for arsenic and lead in SDG MD44E5 were both 153%. All positive sample results for arsenic and lead in the above SDG were considered estimated and flagged "J".
Matrix spiked sample recovery for antimony in SDG MD44C3 was 13%. All positive sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for lead, manganese, selenium, and thallium in SDG MD44C3 were all outside the control limits of 75-125%. All sample results for lead, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Performance evaluation sample recoveries for arsenic, copper, iron, lead, nickel, and zinc were all scored as warning low by the web-based SPS Web software. All sample results for arsenic, copper, iron, lead, nickel, and zinc were considered estimated and flagged "J".

Performance evaluation sample recoveries for calcium and magnesium were both scored as action low by the web-based SPS Web software. All positive sample results for calcium and magnesium were considered estimated and flagged "J". All non-detected sample results for calcium and magnesium were considered unusable and flagged "R".

Matrix duplicate relative percent differences for cobalt, copper, and zinc in SDG MD44L2 were all outside the control limits of + 35%. In addition, the serial dilution for cobalt, copper, and zinc in the above SDG were all outside the control limits of + 10%. All sample results for cobalt, copper, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in SDG MD4497 were all outside the control limits of + 10%. ALL sample results for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for selenium in SDG MD44C2 was 20%. All sample results for selenium in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and vanadium in SDG MD44L2 were all outside the control limits of + 10%. All sample results for aluminum, barium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, and vanadium in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for potassium in SDG MD44E5 was 13%. All sample results for potassium in the above SDG were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures for arsenic in sample C073006-75 and 89 and silver in sample C073006-66. The above sample results were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for arsenic in samples C073006-01, 03, 05, 12, 17, 24, 37, 38, 39, 40, 70, 71, 72, 73, and 76, beryllium in sample C073006-63, 65, 66, and 75, cadmium in samples C073006-05, 09, and 32, cobalt in sample C073006-07, selenium in samples C073006-02, 16, 17, 18, 24, 27,28, 30, 31, 34, 38, 40, and 62, silver in samples C073006-41, 44, 45, 57, 58, 65, 74, 84, 85, and 94, and thallium in samples C073006-20, 25, 55, 64, 66, 68, and 70. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Deliverables

Sample C073006-65 (MD44H8) was mislabeled as sample MD44G8 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Sample C073006-61 (MD44H3) was mislabeled as sample MD44H2 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Sample C073101-26 (MD4497) was left off the CADRE spreadsheet. In addition, this sample was left off the CADRE final flag report. However, the Form 1 for this sample was reported in the data package containing this sample since it was one of the performance evaluation samples. It was listed on the cover page for that SDG (MD4497) twice with two different laboratory numbers (1339202 and 1339201). It is not clear whether this caused problems for CADRE generating the spreadsheet and report or the laboratory forgot to include it in their CADRE file submitted to the EPA. The missing sample was added to the spreadsheet by the data reviewer.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

SAMPLES INCLUDED IN THIS REPORT

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
OK400-SL-001	C073006-01	4499	4499	Surface Soil	7/17/07 12:05	7/24/07 07:36
OK401-SL-001	C073006-02	44A0	44A0	Surface Soil	7/17/07 11:00	7/24/07 07:36
OK402-SL-001	C073006-03	44A1	44A1	Surface Soil	7/17/07 12:35	7/24/07 07:36
OK411-SL-001	C073006-04	44A3	44A3	Surface Soil	7/17/07 16:04	7/24/07 07:36
OK412-SL-001	C073006-05	44A4	44A4	Surface Soil	7/17/07 10:25	7/24/07 07:36
OK026-SD-001	C073006-06	44A5	44A5	Sediment	7/17/07 11:45	7/24/07 07:36
OK026-SD-002	C073006-07	44A6	44A6	Sediment	7/17/07 12:10	7/24/07 07:36
OK019-SD-003	C073006-08	44A7	44A7	Sediment	7/17/07 12:50	7/24/07 07:36
OK358-WA-001	C073006-09	44A8		Surface Soil	7/17/07 12:25	7/24/07 07:36
OK356-WA-001	C073006-10	44A9		Surface Soil	7/17/07 13:00	7/24/07 07:36
OK357-WA-001	C073006-11	44B0		Surface Soil	7/17/07 12:40	7/24/07 07:36
OK353-WA-001	C073006-12	44B1		Surface Soil	7/17/07 15:30	7/24/07 07:36
OK354-WA-001	C073006-13	44B2		Surface Soil	7/17/07 15:15	7/24/07 07:36
OK355-WA-001	C073006-14	44B3		Surface Soil	7/17/07 14:40	7/24/07 07:36
OK355-WA-001D	C073006-15	44B4		Surface Soil	7/17/07 14:40	7/24/07 07:36
OK018-SD-001	C073006-16	44B8	44B8	Sediment	7/17/07 17:05	7/24/07 07:36
OK018-SD-002	C073006-17	44B9	44B9	Sediment	7/17/07 17:15	7/24/07 07:36
OK018-SD-003	C073006-18	44C0	44C0	Sediment	7/17/07 17:25	7/24/07 07:36
OK417-SL-001	C073006-19	44C1	44C1	Surface Soil	7/18/07 17:35	7/24/07 07:36
OK415-SL-001	C073006-20	44C2	44C2	Surface Soil	7/18/07 16:25	7/24/07 07:36
OK019-SD-001	C073006-21	44C3	44C3	Sediment	7/17/07 15:05	7/24/07 07:36
OK019-SD-002	C073006-22	44C4	44C4	Sediment	7/17/07 15:00	7/24/07 07:36
OK204-SL-001	C073006-23	44C5	44C5	Surface Soil	7/17/07 16:15	7/24/07 07:36
OK205-SL-001	C073006-24	44C6	44C6	Surface Soil	7/17/07 15:50	7/24/07 07:36
OK200-SL-001	C073006-25	44C7	44C7	Surface Soil	7/17/07 18:05	7/24/07 07:36
OK201-SL-001	C073006-26	44C8	44C8	Surface Soil	7/17/07 17:48	7/24/07 07:36
OK202-SL-001	C073006-27	44C9	44C9	Surface Soil	7/17/07 16:55	7/24/07 07:36
OK203-SL-001	C073006-28	44D0	44D0	Surface Soil	7/17/07 17:13	7/24/07 07:36
OK020-SD-001	C073006-29	44D1	44D1	Sediment	7/17/07 15:45	7/24/07 07:36
OK300-WA-001	C073006-30	44D2	44D2	Surface Soil	7/17/07 17:25	7/24/07 07:36
OK301-WA-001	C073006-31	44D3	44D3	Surface Soil	7/17/07 18:00	7/24/07 07:36
OK351-WA-001	C073006-32	44D4		Surface Soil	7/17/07 16:40	7/24/07 07:36
OK352-WA-001	C073006-33	44D5	44D5	Surface Soil	7/17/07 16:55	7/24/07 07:36
OK408-SL-001	C073006-34	44D8	44D8	Surface Soil	7/18/07 08:40	7/24/07 07:36

OK414-SL-001	C073006-35	44D9	44D9	Surface Soil	7/18/07 09:50	7/24/07 07:36
OK414-SL-001D	C073006-36	44E0	44E0	Surface Soil	7/18/07 09:50	7/24/07 07:36
OK419-SL-001	C073006-37	44E1	44E1	Surface Soil	7/18/07 12:20	7/24/07 07:36
OK416-SL-001	C073006-38	44E2	44E2	Surface Soil	7/18/07 12:45	7/24/07 07:36
OK413-SL-001	C073006-39	44E3	44E3	Surface Soil	7/18/07 11:35	7/24/07 07:36
OK418-SL-001	C073006-40	44E4	44E4	Surface Soil	7/18/07 09:15	7/24/07 07:36
OK427-SD-001	C073006-41	44E5	44E5	Sediment	7/17/07 09:29	7/24/07 07:36
OK450-WA-001	C073006-42	44E6		Surface Soil	7/18/07 11:10	7/24/07 07:36
OK555-WA-001	C073006-43	44E7	44E7	Surface Soil	7/18/07 11:25	7/24/07 07:36
OK021-SD-001	C073006-44	44E8	44E8	Sediment	7/18/07 10:20	7/24/07 07:36
OK024-SD-001	C073006-45	44E9	44E9	Sediment	7/18/07 11:00	7/24/07 07:36
OK022-SD-001	C073006-46	44F1	44F1	Sediment	7/18/07 09:45	7/24/07 07:36
OK023-SD-001	C073006-47	44F2	44F2	Sediment	7/18/07 10:35	7/24/07 07:36
OK551-SL-001	C073006-48	44F9	44F9	Surface Soil	7/18/07 13:45	7/24/07 07:36
OK558-WA-001	C073006-49	44G0	44G0	Surface Soil	7/18/07 17:45	7/24/07 07:36
OK552-WA-001	C073006-50	44G1	44G1	Surface Soil	7/18/07 13:10	7/24/07 07:36
OK553-SL-001	C073006-51	44G2	44G2	Surface Soil	7/18/07 15:45	7/24/07 07:36
OK554-SL-001	C073006-52	44G3	44G3	Surface Soil	7/18/07 14:30	7/24/07 07:36
OK423-SL-001	C073006-53	44G4	44G4	Surface Soil	7/18/07 16:25	7/24/07 07:36
OK451-WA-001	C073006-54	44G5		Surface Soil	7/18/07 18:25	7/24/07 07:36
OK452-WA-001	C073006-55	44G6		Surface Soil	7/18/07 17:45	7/24/07 07:36
OK453-WA-001	C073006-56	44G7		Surface Soil	7/18/07 17:15	7/24/07 07:36
OK454-WA-001	C073006-57	44G8		Surface Soil	7/18/07 15:30	7/24/07 07:36
OK015-SD-001	C073006-58	44H0	44H0	Sediment	7/18/07 17:15	7/24/07 07:36
OK016-SD-001	C073006-59	44H1	44H1	Sediment	7/18/07 15:55	7/24/07 07:36
OK016-SD-002	C073006-60	44H2	44H2	Sediment	7/18/07 16:05	7/24/07 07:36
OK016-SD-003	C073006-61	44H3	44H3	Sediment	7/18/07 16:10	7/24/07 07:36
OK017-SD-001	C073006-62	44H4	44H4	Sediment	7/18/07 14:10	7/24/07 07:36
OK014-SD-001	C073006-63	44H5	44H5	Sediment	7/18/07 18:15	7/24/07 07:36
OK014-SD-001D	C073006-64	44H6	44H6	Sediment	7/18/07 18:15	7/24/07 07:36
OK425-SL-001	C073006-65	44H8	44H8	Surface Soil	7/19/07 08:35	7/24/07 07:36
OK520-SL-001	C073006-66	44J0	44J0	Surface Soil	7/19/07 09:25	7/24/07 07:36
OK512-SL-001	C073006-67	44J1	44J1	Surface Soil	7/19/07 08:25	7/24/07 07:36
OK513-SL-001	C073006-68	44J2	44J2	Surface Soil	7/19/07 09:05	7/24/07 07:36
OK513-SL-001D	C073006-69	44J3	44J3	Surface Soil	7/19/07 09:15	7/24/07 07:36
OK514-SL-001	C073006-70	44J4	44J4	Surface Soil	7/19/07 09:30	7/24/07 07:36
OK501-SL-001	C073006-71	44J5	44J5	Surface Soil	7/19/07 11:45	7/24/07 07:36
OK550-WA-001	C073006-72	44J6		Surface Soil	7/19/07 11:15	7/24/07 07:36
OK511-SL-001	C073006-73	44J7	44J7	Surface Soil	7/19/07 08:40	7/24/07 07:36
OK424-SL-001	C073006-74	44J8	44J8	Surface Soil	7/19/07 10:15	7/24/07 07:36

OK422-SL-001	C073006-75	44J9	44J9	Surface Soil	7/19/07 09:25	7/24/07 07:36
OK001-SD-001	C073006-76	44K0	44K0	Sediment	7/19/07 09:25	7/24/07 07:36
OK002-SD-001	C073006-77	44K1	44K1	Sediment	7/19/07 10:35	7/24/07 07:36
OK013-SD-001	C073006-78	44L0	44L0	Sediment	7/19/07 13:20	7/24/07 07:36
OK013-SD-001D	C073006-79	44L1	44L1	Sediment	7/19/07 13:25	7/24/07 07:36
OK027-SD-001	C073006-80	44L2	44L2	Sediment	7/19/07 09:05	7/24/07 07:36
OK207-SD-001	C073006-81	44L3	44L3	Sediment	7/19/07 13:30	7/24/07 07:36
OK207-SD-001D	C073006-82	44L4	44L4	Sediment	7/19/07 13:35	7/24/07 07:36
OK407-SD-001	C073006-83	44L5	44L5	Sediment	7/19/07 13:00	7/24/07 07:36
OK421-SD-001	C073006-84	44L6	44L6	Sediment	7/19/07 14:45	7/24/07 07:36
OK025-SD-001	C073006-85	44L9	44L9	Sediment	7/19/07 17:10	7/24/07 07:36
OK426-SL-001	C073006-86	44M0	44M0	Surface Soil	7/19/07 16:00	7/24/07 07:36
OK517-SL-001	C073006-87	44M1	44M1	Surface Soil	7/19/07 16:30	7/24/07 07:36
OK517-SL-001D	C073006-88	44M2	44M2	Surface Soil	7/19/07 16:40	7/24/07 07:36
OK519-SL-001	C073006-89	44M3	44M3	Surface Soil	7/19/07 14:45	7/24/07 07:36
OK556-WA-001	C073006-90	44M4	44M4	Surface Soil	7/19/07 16:40	7/24/07 07:36
OK500-SL-001	C073006-91	44M5	44M5	Surface Soil	7/19/07 17:30	7/24/07 07:36
OK518-SL-001	C073006-92	44M6	44M6	Surface Soil	7/19/07 15:10	7/24/07 07:36
OK515-SL-001	C073006-93	44M7	44M7	Surface Soil	7/19/07 17:10	7/24/07 07:36
OK406-SL-001	C073006-94	44N0	44N0	Surface Soil	7/19/07 17:15	7/24/07 07:36
OK502-SL-001	C073006-95	44N1	44N1	Surface Soil	7/19/07 18:10	7/24/07 07:36
OK004-SD-001	C073006-96	44N3	44N3	Sediment	7/19/07 17:55	7/24/07 07:36

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-1	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP02	Concentration reported is greater than the highest standard on calibration curve
CLP03	Baseline instability in calibration or preparation blanks
CLP04	Analyte reported as potential false positive (% RSD > 20%, and result > MDL, but < CRQL)
CLP06	PE sample recovery less than control limits.
CLP07	PE sample recovery outside warning limits.
CLP14	The analysis did not indicate the presence of the analyte. The data is rejected and the reported value is the Reporting Limit. Resampling and reanalysis are necessary to confirm or deny the presence of the analyte.
CLP20	Matrix Spike Recovery < 30%
CLP21	%RSD >20% for ICP Multiple Exposures
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
Q-5	Serial dilution precision outside method control limits
Q-6	Appropriate QC not prepared and/or analyzed with this sample.
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-4	Matrix Precision outside method control limits
QM-6	Matrix Spike Recovery less than 10%
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

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ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 4499 LIBRTY
D No: 4499 A4

Sample ID: OK400-SL-001
Station ID: OK400

Lab ID: C073006-01
Matrix: Surface Soil

Date Collected: 7/17/07 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.13	U	mg/kg dry	0.13	7/29/07	7/31/07	CLP ILM05.4 CV
E1642941	% Solids	77		%		7/29/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	14000	J, Q-5	mg/kg dry	24	7/29/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	7.2	U, R, QM-6, CLP14	mg/kg dry	7.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	R, Q-2, CLP04, QM-1, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	51	J, Q-5	mg/kg dry	24	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.57	U, J, Q-2, CLP03	mg/kg dry	0.60	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.60	U, J, QM-1	mg/kg dry	0.60	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	79	U, J, Q-2, B-1, Q-5, CLP06	mg/kg dry	600	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	16	J, Q-5	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	6.7		mg/kg dry	6.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	16	J, CLP07	mg/kg dry	3.0	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	15000	J, Q-5, CLP07	mg/kg dry	12	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	7.9	J, CLP07, Q-5	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1500	J, CLP06, Q-5	mg/kg dry	600	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	80	J, Q-5, QM-1	mg/kg dry	1.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	6.2	J, Q-5, CLP07	mg/kg dry	4.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	1100		mg/kg dry	600	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.26	J, Q-2, QM-1	mg/kg dry	4.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	600	U	mg/kg dry	600	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U, J, QM-1	mg/kg dry	3.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	26	J, Q-5	mg/kg dry	6.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	28	J, Q-5, CLP07	mg/kg dry	7.2	7/29/07	8/02/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A0 LIBRTY
D No: 44A0 A4

Sample ID: OK401-SL-001
Station ID: OK401

Lab ID: C073006-02
Matrix: Surface Soil

Date Collected: 7/17/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.070	U, J, Q-2, CLP03	mg/kg dry	0.12	7/29/07	7/31/07	CLP ILM05.4 CV
E1642941	% Solids	84		%		7/29/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	16000	J, Q-5	mg/kg dry	24	7/29/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	7.1	U, R, QM-6, CLP14	mg/kg dry	7.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.8	J, QM-1, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	63	J, Q-5	mg/kg dry	24	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.63		mg/kg dry	0.59	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.59	U, J, QM-1	mg/kg dry	0.59	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	200	U, J, Q-2, B-1, CLP06, Q-5	mg/kg dry	590	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	15	J, Q-5	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	7.2		mg/kg dry	5.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	36	J, CLP07	mg/kg dry	3.0	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	15000	J, Q-5, CLP07	mg/kg dry	12	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	13	J, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1400	J, CLP06, Q-5	mg/kg dry	590	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	410	J, QM-1, Q-5	mg/kg dry	1.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	6.0	J, Q-5, CLP07	mg/kg dry	4.7	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	720		mg/kg dry	590	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.36	R, Q-2, CLP04, QM-1	mg/kg dry	4.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	20	U, J, Q-2, B-1	mg/kg dry	590	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U, J, QM-1	mg/kg dry	3.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	25	J, Q-5	mg/kg dry	5.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	31	J, Q-5, CLP07	mg/kg dry	7.1	7/29/07	8/02/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A1 LIBRTY
D No: 44A1 A4

Sample ID: OK402-SL-001
Station ID: OK402

Lab ID: C073006-03
Matrix: Surface Soil

Date Collected: 7/17/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.046	U, J, Q-2, CLP03	mg/kg dry	0.10	7/29/07	7/31/07	CLP ILM05.4 CV
E1642941	% Solids	78		%		7/29/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	13000	J, Q-5	mg/kg dry	25	7/29/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	7.4	U, R, QM-6, CLP14	mg/kg dry	7.4	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.4	R, Q-2, CLP04, QM-1, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	70	J, Q-5	mg/kg dry	25	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.67		mg/kg dry	0.62	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.62	U, J, QM-1	mg/kg dry	0.62	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	470	J, Q-2, Q-5, CLP06	mg/kg dry	620	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	13	J, Q-5	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	6.2		mg/kg dry	6.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	43	J, CLP07	mg/kg dry	3.1	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	13000	J, CLP07	mg/kg dry	12	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	8.0	J, Q-5, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1900	J, Q-5, CLP06	mg/kg dry	620	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	580	J, Q-5, QM-1	mg/kg dry	1.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	5.6	J, Q-5, CLP07	mg/kg dry	5.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	1300		mg/kg dry	620	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	4.3	U, J, QM-1	mg/kg dry	4.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	620	U	mg/kg dry	620	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.1	U, J, QM-1	mg/kg dry	3.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	20	J, Q-5	mg/kg dry	6.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	34	J, Q-5, CLP07	mg/kg dry	7.4	7/29/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A3 LIBRTY
D No: 44A3 A4

Sample ID: OK411-SL-001
Station ID: OK411

Lab ID: C073006-04
Matrix: Surface Soil

Date Collected: 7/17/07 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.14		mg/kg dry	0.11	7/29/07	7/31/07	CLP ILM05.4 CV
E1642941	% Solids	89		%		7/29/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	16000	J, Q-5	mg/kg dry	22	7/29/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	6.7	U, R, QM-6, CLP14	mg/kg dry	6.7	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	J, Q-2, QM-1, CLP07	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	75	J, Q-5	mg/kg dry	22	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.80		mg/kg dry	0.55	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.56	U, J, QM-1	mg/kg dry	0.55	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	1100	J, CLP06, Q-5	mg/kg dry	560	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	16	J, Q-5	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	9.0		mg/kg dry	5.5	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	140	J, CLP07	mg/kg dry	2.8	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	22000	J, CLP07	mg/kg dry	11	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	20	J, Q-5, CLP07	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	2600	J, Q-5, CLP06	mg/kg dry	560	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	390	J, Q-5, QM-1	mg/kg dry	1.7	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	5.7	J, Q-5, CLP07	mg/kg dry	4.4	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	2100		mg/kg dry	560	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	3.9	U, J, QM-1	mg/kg dry	3.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.1	U	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	550	U	mg/kg dry	560	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U, J, QM-1	mg/kg dry	2.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	25	J, Q-5	mg/kg dry	5.5	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	180	J, Q-5, CLP07	mg/kg dry	6.7	7/29/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A4 LIBRTY
D No: 44A4 A4

Sample ID: OK412-SL-001
Station ID: OK412

Lab ID: C073006-05
Matrix: Surface Soil

Date Collected: 7/17/07 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.18		mg/kg dry	0.10	7/29/07	7/31/07	CLP ILM05.4 CV
E1642941	% Solids	92		%		7/29/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	15000	J, Q-5	mg/kg dry	22	7/29/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	6.5	U, R, QM-6, CLP14	mg/kg dry	6.5	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.94	R, Q-2, CLP04, QM-1, CLP07	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	87	J, Q-5	mg/kg dry	22	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.73		mg/kg dry	0.54	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.31	R, Q-2, CLP04, QM-1	mg/kg dry	0.54	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	850	J, Q-5, CLP06	mg/kg dry	540	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	17	J, Q-5	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	15		mg/kg dry	5.4	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	280	J, CLP07	mg/kg dry	2.7	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	23000	J, CLP07, Q-5	mg/kg dry	11	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	17	J, Q-5, CLP07	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	2400	J, CLP06, Q-5	mg/kg dry	540	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	390	J, Q-5, QM-1	mg/kg dry	1.6	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	5.4	J, Q-5, CLP07	mg/kg dry	4.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	2400		mg/kg dry	540	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	3.8	U, J, QM-1	mg/kg dry	3.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.1	U	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	540	U	mg/kg dry	540	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.7	U, J, QM-1	mg/kg dry	2.7	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	26	J, Q-5	mg/kg dry	5.4	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	77	J, Q-5, CLP07	mg/kg dry	6.5	7/29/07	8/02/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A5 LIBRTY
D No: 44A5 A4

Sample ID: OK026-SD-001
Station ID: OK026

Lab ID: C073006-06
Matrix: Sediment

Date Collected: 7/17/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U	mg/kg dry	0.11	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	76		%		7/29/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	2500	J, Q-5	mg/kg dry	26	7/29/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	0.61	U, J, Q-2, CLP03, QM-6	mg/kg dry	7.7	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.3	U, J, QM-1, CLP07	mg/kg dry	1.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	26	J, Q-5	mg/kg dry	26	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.21	U, J, Q-2, CLP03	mg/kg dry	0.64	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.64	U, J, QM-1	mg/kg dry	0.64	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	330	J, Q-5, CLP06	mg/kg dry	640	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	9.3	J, Q-5	mg/kg dry	1.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.4	J, Q-2	mg/kg dry	6.4	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	9.8	J, CLP07	mg/kg dry	3.2	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	7000	J, Q-5, CLP07	mg/kg dry	13	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	2.2	J, CLP07, Q-5	mg/kg dry	1.3	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	700	J, Q-5, CLP06	mg/kg dry	640	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	200	J, Q-5, QM-1	mg/kg dry	1.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	3.3	U, J, Q-2, CLP03, Q-5,	mg/kg dry	5.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	470	J, Q-2	mg/kg dry	640	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	4.5	U, J, QM-1	mg/kg dry	4.5	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.3	U	mg/kg dry	1.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	140	U, J, Q-2, B-1	mg/kg dry	640	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.2	U, J, QM-1	mg/kg dry	3.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	12	J, Q-5	mg/kg dry	6.4	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	18	J, Q-5, CLP07	mg/kg dry	7.7	7/29/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A6 LIBRTY
D No: 44A6 A4

Sample ID: OK026-SD-002
Station ID: OK026

Lab ID: C073006-07
Matrix: Sediment

Date Collected: 7/17/07 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.061	U, J, Q-2, CLP03	mg/kg dry	0.13	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	77		%		7/29/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	1300	J, Q-5	mg/kg dry	24	7/29/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	0.26	U, J, Q-2, CLP03, Q-6	mg/kg dry	7.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.2	U, J, QM-1, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	8.5	J, Q-5	mg/kg dry	24	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.15	U, J, Q-2, CLP03	mg/kg dry	0.61	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.61	U, J, QM-1	mg/kg dry	0.61	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	200	U, J, Q-2, B-1, Q-5, CLP06	mg/kg dry	610	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	4.0	J, Q-5	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	1.4	R, Q-2, CLP04	mg/kg dry	6.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	8.6	J, CLP07	mg/kg dry	3.0	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	5400	J, CLP07, Q-5	mg/kg dry	12	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	0.76	J, Q-2, CLP07, Q-5	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	200	J, Q-5, CLP06	mg/kg dry	610	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	82	J, Q-5, QM-1	mg/kg dry	1.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	1.3	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	110	J, Q-2	mg/kg dry	610	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	4.3	U, J, QM-1	mg/kg dry	4.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	77	U, J, Q-2, B-1	mg/kg dry	610	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U, J, QM-1	mg/kg dry	3.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	6.2	J, Q-5	mg/kg dry	6.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	10	J, Q-5, CLP07	mg/kg dry	7.3	7/29/07	8/02/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A7 LIBRTY
D No: 44A7 A4

Sample ID: OK019-SD-003
Station ID: OK019

Lab ID: C073006-08
Matrix: Sediment

Date Collected: 7/17/07 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.093	U, J, Q-2, CLP03	mg/kg dry	0.14	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	72		%		7/29/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	7000	J, Q-5	mg/kg dry	26	7/29/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	8.0	U, R, CLP14, CLP06	mg/kg dry	8.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.3	U, J, QM-1, CLP07	mg/kg dry	1.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	53	J, Q-5	mg/kg dry	26	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.48	U, J, Q-2, CLP03	mg/kg dry	0.66	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.66	U, J, QM-1	mg/kg dry	0.66	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	610	J, Q-2, Q-5, CLP06	mg/kg dry	660	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	18	J, Q-5	mg/kg dry	1.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	8.4		mg/kg dry	6.6	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	120	J, CLP07	mg/kg dry	3.3	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	31000	J, Q-5, CLP07	mg/kg dry	13	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	5.5	J, Q-5, CLP07	mg/kg dry	1.3	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1600	J, Q-5, CLP06	mg/kg dry	660	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	180	J, Q-5, QM-1	mg/kg dry	2.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	6.7	J, Q-5, CLP07	mg/kg dry	5.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	1300		mg/kg dry	660	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.89	J, QM-1	mg/kg dry	4.6	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.3	U	mg/kg dry	1.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	26	U, J, Q-2, B-1	mg/kg dry	660	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.3	U, J, QM-1	mg/kg dry	3.3	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	27	J, Q-5	mg/kg dry	6.6	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	50	J, Q-5, CLP07	mg/kg dry	8.0	7/29/07	8/02/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A8 LIBRTY

D No:

Sample ID: OK358-WA-001

Lab ID: C073006-09

Station ID: OK358

Matrix: Surface Soil

Date Collected: 7/17/07 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.50		mg/kg dry	0.11	7/29/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	2000	J, Q-5	mg/kg dry	22	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	6.7	U, R, QM-6, CLP14	mg/kg dry	6.7	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	14	J, QM-1, CLP07	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	190	J, Q-5	mg/kg dry	22	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.035	U, J, Q-2, CLP03	mg/kg dry	0.56	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.42	R, Q-2, CLP04, QM-1	mg/kg dry	0.56	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	30000	J, Q-5, CLP06	mg/kg dry	560	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	24	J, Q-5	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	140		mg/kg dry	5.6	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	1400	J, CLP07	mg/kg dry	2.8	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	120000	J, Q-5, CLP07	mg/kg dry	56	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	23	J, Q-5, CLP07	mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	200	J, Q-5, CLP06, Q-2	mg/kg dry	560	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	79	J, QM-1, Q-5	mg/kg dry	1.7	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	2.8	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.4	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	7100		mg/kg dry	560	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	87	J, QM-1	mg/kg dry	3.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	2.1		mg/kg dry	1.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	1200		mg/kg dry	560	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U, J, QM-1	mg/kg dry	2.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	48	J, Q-5	mg/kg dry	5.6	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	67	J, Q-5, CLP07	mg/kg dry	6.7	7/29/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A8 LIBRTY
D No:

Sample ID: OK358-WA-001
Station ID: OK358

Lab ID: C073006-09
Matrix: Surface Soil

Date Collected: 7/17/07 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	2.9	U	mg/kg dry	2.9	7/27/07	7/30/07	CLP ILM05.4 AS

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A9 LIBRTY

D No:

Sample ID: OK356-WA-001

Lab ID: C073006-10

Station ID: OK356

Matrix: Surface Soil

Date Collected: 7/17/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.71		mg/kg dry	0.11	7/29/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	1400	J, Q-5	mg/kg dry	23	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	6.9	U, R, QM-6, CLP14	mg/kg dry	6.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	9.0	J, QM-1, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	150	J, Q-5	mg/kg dry	23	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.055	U, J, Q-2, CLP03	mg/kg dry	0.58	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	1.7	J, QM-1	mg/kg dry	0.58	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	32000	J, Q-5, CLP06	mg/kg dry	580	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	9.2	J, Q-5	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	230		mg/kg dry	5.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	1400	J, CLP07	mg/kg dry	2.9	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	130000	J, Q-5, CLP07	mg/kg dry	58	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	19	J, Q-5, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	380	J, Q-5, CLP06, Q-2	mg/kg dry	580	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	200	J, QM-1, Q-5	mg/kg dry	1.7	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	5.9	J, Q-5, CLP07	mg/kg dry	4.6	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	3700		mg/kg dry	580	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	54	J, QM-1	mg/kg dry	4.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	2.8		mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	95	U, J, Q-2, B-1	mg/kg dry	580	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U, J, QM-1	mg/kg dry	2.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	12	J, Q-5	mg/kg dry	5.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	710	J, Q-5, CLP07	mg/kg dry	6.9	7/29/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A9 LIBRTY
D No:

Sample ID: OK356-WA-001
Station ID: OK356

Lab ID: C073006-10
Matrix: Surface Soil

Date Collected: 7/17/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	2.9	U	mg/kg dry	2.9	7/27/07	7/30/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B0 LIBRTY
D No:

Sample ID: OK357-WA-001
Station ID: OK356

Lab ID: C073006-11
Matrix: Surface Soil

Date Collected: 7/17/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.68		mg/kg dry	0.12	7/29/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	3900	J, Q-5	mg/kg dry	23	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	7.0	U, R, QM-6, CLP14	mg/kg dry	7.0	7/29/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	16	J, QM-1, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	160	J, Q-5	mg/kg dry	23	7/29/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.58	U	mg/kg dry	0.58	7/29/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.81	J, QM-1	mg/kg dry	0.58	7/29/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	16000	J, Q-5, CLP06	mg/kg dry	580	7/29/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	38	J, Q-5	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	220		mg/kg dry	5.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	2200	J, CLP07	mg/kg dry	2.9	7/29/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	180000	J, Q-5, CLP07	mg/kg dry	58	7/29/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	14	J, Q-5, CLP07	mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1100	J, Q-5, CLP06	mg/kg dry	580	7/29/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	91	J, Q-5, QM-1	mg/kg dry	1.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	4.0	U, J, Q-2, CLP03,	mg/kg dry	4.7	7/29/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	7500		mg/kg dry	580	7/29/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	60	J, QM-1	mg/kg dry	4.1	7/29/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.3		mg/kg dry	1.2	7/29/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	200	U, J, Q-2, B-1	mg/kg dry	580	7/29/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U, J, QM-1	mg/kg dry	2.9	7/29/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	170	J, Q-5	mg/kg dry	5.8	7/29/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	45	J, Q-5, CLP07	mg/kg dry	7.0	7/29/07	8/02/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B0 LIBRTY
D No:

Sample ID: OK357-WA-001
Station ID: OK356

Lab ID: C073006-11
Matrix: Surface Soil

Date Collected: 7/17/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	2.9	U	mg/kg dry	2.9	7/27/07	7/30/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B1 LIBRTY
D No:

Sample ID: OK353-WA-001
Station ID: OK353

Lab ID: C073006-12
Matrix: Surface Soil

Date Collected: 7/17/07 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.22		mg/kg dry	0.10	7/29/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	3600	J, Q-5	mg/kg dry	23	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	7.0	U, R, CLP14, QM-6	mg/kg dry	7.0	7/29/07	8/03/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.0	R, Q-2, CLP04, QM-1, CLP07	mg/kg dry	1.2	7/29/07	8/03/07	CLP ILM05.4 P
7440-39-3	Barium	130	J, Q-5	mg/kg dry	23	7/29/07	8/03/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.075	U, J, Q-2, CLP03	mg/kg dry	0.58	7/29/07	8/03/07	CLP ILM05.4 P
7440-43-9	Cadmium	1.2	J, QM-1	mg/kg dry	0.58	7/29/07	8/03/07	CLP ILM05.4 P
7440-70-2	Calcium	6100	J, Q-5, CLP06	mg/kg dry	580	7/29/07	8/03/07	CLP ILM05.4 P
7440-47-3	Chromium	23	J, Q-5	mg/kg dry	1.2	7/29/07	8/03/07	CLP ILM05.4 P
7440-48-4	Cobalt	72		mg/kg dry	5.8	7/29/07	8/03/07	CLP ILM05.4 P
7440-50-8	Copper	680	J, CLP07	mg/kg dry	2.9	7/29/07	8/03/07	CLP ILM05.4 P
7439-89-6	Iron	79000	J, CLP07, Q-5	mg/kg dry	23	7/29/07	8/05/07	CLP ILM05.4 P
7439-92-1	Lead	7.0	J, Q-5, CLP07	mg/kg dry	1.2	7/29/07	8/03/07	CLP ILM05.4 P
7439-95-4	Magnesium	1500	J, Q-5, CLP06	mg/kg dry	580	7/29/07	8/03/07	CLP ILM05.4 P
7439-96-5	Manganese	280	J, QM-1, Q-5	mg/kg dry	1.7	7/29/07	8/03/07	CLP ILM05.4 P
7440-02-0	Nickel	10	J, Q-5, CLP07	mg/kg dry	4.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-09-7	Potassium	4700		mg/kg dry	580	7/29/07	8/03/07	CLP ILM05.4 P
7782-49-2	Selenium	13	J, QM-1	mg/kg dry	4.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-22-4	Silver	1.1	U, J, Q-2, CLP03	mg/kg dry	1.2	7/29/07	8/03/07	CLP ILM05.4 P
7440-23-5	Sodium	120	U, J, Q-2, B-1	mg/kg dry	580	7/29/07	8/03/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U, J, QM-1	mg/kg dry	2.9	7/29/07	8/03/07	CLP ILM05.4 P
7440-62-2	Vanadium	33	J, Q-5	mg/kg dry	5.8	7/29/07	8/03/07	CLP ILM05.4 P
7440-66-6	Zinc	720	J, Q-5, CLP07	mg/kg dry	7.0	7/29/07	8/03/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B1 LIBRTY
D No:

Sample ID: OK353-WA-001
Station ID: OK353

Lab ID: C073006-12
Matrix: Surface Soil

Date Collected: 7/17/07 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	84		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	3.0	U	mg/kg dry	3.0	7/27/07	7/30/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B2 LIBRTY
D No:

Sample ID: OK354-WA-001
Station ID: OK354

Lab ID: C073006-13
Matrix: Surface Soil

Date Collected: 7/17/07 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.64		mg/kg dry	0.10	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	82		%		7/29/07	8/03/07	CLP Inorganics
7429-90-5	Aluminum	1200	J, Q-5	mg/kg dry	20	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	6.1	U, R, QM-6, CLP14	mg/kg dry	6.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-38-2	Arsenic	6.7	J, QM-1, CLP07	mg/kg dry	1.0	7/29/07	8/03/07	CLP ILM05.4 P
7440-39-3	Barium	240	J, Q-5	mg/kg dry	20	7/29/07	8/03/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.036	U, J, Q-2, CLP03	mg/kg dry	0.51	7/29/07	8/03/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.33	J, QM-1	mg/kg dry	0.51	7/29/07	8/03/07	CLP ILM05.4 P
7440-70-2	Calcium	25000	J, Q-5, CLP06	mg/kg dry	510	7/29/07	8/03/07	CLP ILM05.4 P
7440-47-3	Chromium	11	J, Q-5	mg/kg dry	1.0	7/29/07	8/03/07	CLP ILM05.4 P
7440-48-4	Cobalt	17		mg/kg dry	5.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-50-8	Copper	130	J, CLP07	mg/kg dry	2.5	7/29/07	8/03/07	CLP ILM05.4 P
7439-89-6	Iron	110000	J, CLP07, Q-5	mg/kg dry	60	7/29/07	8/03/07	CLP ILM05.4 P
7439-92-1	Lead	15	J, Q-5, CLP07	mg/kg dry	1.0	7/29/07	8/03/07	CLP ILM05.4 P
7439-95-4	Magnesium	500	J, Q-2, Q-5, CLP06	mg/kg dry	510	7/29/07	8/03/07	CLP ILM05.4 P
7439-96-5	Manganese	230	J, QM-1, Q-5	mg/kg dry	1.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-02-0	Nickel	7.1	J, CLP07	mg/kg dry	4.0	7/29/07	8/03/07	CLP ILM05.4 P
7440-09-7	Potassium	8000		mg/kg dry	510	7/29/07	8/03/07	CLP ILM05.4 P
7782-49-2	Selenium	30	J, QM-1	mg/kg dry	3.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-22-4	Silver	1.8		mg/kg dry	1.0	7/29/07	8/03/07	CLP ILM05.4 P
7440-23-5	Sodium	140	U, J, Q-2, B-1	mg/kg dry	510	7/29/07	8/03/07	CLP ILM05.4 P
7440-28-0	Thallium	2.5	U, J, QM-1	mg/kg dry	2.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-62-2	Vanadium	24	J, Q-5	mg/kg dry	5.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-66-6	Zinc	430	J, Q-5, CLP07	mg/kg dry	6.1	7/29/07	8/03/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B3 LIBRTY
D No:

Sample ID: OK355-WA-001
Station ID: OK355

Lab ID: C073006-14
Matrix: Surface Soil

Date Collected: 7/17/07 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20		mg/kg dry	0.11	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	89		%		7/29/07	8/03/07	CLP Inorganics
7429-90-5	Aluminum	6300	J, Q-5	mg/kg dry	22	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	6.6	U, R, QM-6, CLP14	mg/kg dry	6.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.8	J, QM-1, CLP07	mg/kg dry	1.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-39-3	Barium	210	J, Q-5	mg/kg dry	22	7/29/07	8/03/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.11	U, J, Q-2, CLP03	mg/kg dry	0.55	7/29/07	8/03/07	CLP ILM05.4 P
7440-43-9	Cadmium	20	J, QM-1	mg/kg dry	0.55	7/29/07	8/03/07	CLP ILM05.4 P
7440-70-2	Calcium	22000	J, Q-5, CLP06	mg/kg dry	550	7/29/07	8/03/07	CLP ILM05.4 P
7440-47-3	Chromium	58	J, Q-5	mg/kg dry	1.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-48-4	Cobalt	180		mg/kg dry	5.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-50-8	Copper	4800	J, CLP07	mg/kg dry	2.8	7/29/07	8/03/07	CLP ILM05.4 P
7439-89-6	Iron	140000	J, Q-5, CLP07	mg/kg dry	55	7/29/07	8/03/07	CLP ILM05.4 P
7439-92-1	Lead	16	J, Q-5, CLP07	mg/kg dry	1.1	7/29/07	8/03/07	CLP ILM05.4 P
7439-95-4	Magnesium	3100	J, Q-5, CLP07	mg/kg dry	550	7/29/07	8/03/07	CLP ILM05.4 P
7439-96-5	Manganese	280	J, Q-5, QM-1	mg/kg dry	1.7	7/29/07	8/03/07	CLP ILM05.4 P
7440-02-0	Nickel	25	J, Q-5, CLP07	mg/kg dry	4.4	7/29/07	8/03/07	CLP ILM05.4 P
7440-09-7	Potassium	8000		mg/kg dry	550	7/29/07	8/03/07	CLP ILM05.4 P
7782-49-2	Selenium	35	J, QM-1	mg/kg dry	3.9	7/29/07	8/03/07	CLP ILM05.4 P
7440-22-4	Silver	1.7		mg/kg dry	1.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-23-5	Sodium	440	J, Q-2	mg/kg dry	550	7/29/07	8/03/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U, J, QM-1	mg/kg dry	2.8	7/29/07	8/03/07	CLP ILM05.4 P
7440-62-2	Vanadium	44	J, Q-5	mg/kg dry	5.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-66-6	Zinc	1400	J, Q-5, CLP07	mg/kg dry	6.6	7/29/07	8/03/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B4 LIBRTY
D No:

Sample ID: OK355-WA-001D
Station ID: OK355

Lab ID: C073006-15
Matrix: Surface Soil

Date Collected: 7/17/07 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.26		mg/kg dry	0.11	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	88		%		7/29/07	8/03/07	CLP Inorganics
7429-90-5	Aluminum	10000	J, Q-5	mg/kg dry	23	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	6.8	U, R, QM-6, CLP14	mg/kg dry	6.8	7/29/07	8/03/07	CLP ILM05.4 P
7440-38-2	Arsenic	4.3	J, QM-1, CLP07	mg/kg dry	1.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-39-3	Barium	250	J, Q-5	mg/kg dry	23	7/29/07	8/03/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.18	U, J, Q-2, CLP03	mg/kg dry	0.57	7/29/07	8/03/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.9	J, QM-1	mg/kg dry	0.57	7/29/07	8/03/07	CLP ILM05.4 P
7440-70-2	Calcium	28000	J, Q-5, CLP06	mg/kg dry	570	7/29/07	8/03/07	CLP ILM05.4 P
7440-47-3	Chromium	100	J, Q-5	mg/kg dry	1.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-48-4	Cobalt	220		mg/kg dry	5.7	7/29/07	8/03/07	CLP ILM05.4 P
7440-50-8	Copper	7300	J, CLP07	mg/kg dry	5.7	7/29/07	8/05/07	CLP ILM05.4 P
7439-89-6	Iron	160000	J, Q-5, CLP07	mg/kg dry	57	7/29/07	8/03/07	CLP ILM05.4 P
7439-92-1	Lead	16	J, Q-5, CLP07	mg/kg dry	1.1	7/29/07	8/03/07	CLP ILM05.4 P
7439-95-4	Magnesium	3900	J, CLP06, Q-5	mg/kg dry	570	7/29/07	8/03/07	CLP ILM05.4 P
7439-96-5	Manganese	330	J, Q-5, QM-1	mg/kg dry	1.7	7/29/07	8/03/07	CLP ILM05.4 P
7440-02-0	Nickel	26	J, Q-5, CLP07	mg/kg dry	4.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-09-7	Potassium	8300		mg/kg dry	570	7/29/07	8/03/07	CLP ILM05.4 P
7782-49-2	Selenium	35	J, QM-1	mg/kg dry	4.0	7/29/07	8/03/07	CLP ILM05.4 P
7440-22-4	Silver	1.9		mg/kg dry	1.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-23-5	Sodium	360	J, Q-2	mg/kg dry	570	7/29/07	8/03/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U, J, QM-1	mg/kg dry	2.8	7/29/07	8/03/07	CLP ILM05.4 P
7440-62-2	Vanadium	67	J, Q-5	mg/kg dry	5.7	7/29/07	8/03/07	CLP ILM05.4 P
7440-66-6	Zinc	1600	J, Q-5, CLP07	mg/kg dry	6.8	7/29/07	8/03/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B8 LIBRTY
D No: 44B8 A4

Sample ID: OK018-SD-001
Station ID: OK018

Lab ID: C073006-16
Matrix: Sediment

Date Collected: 7/17/07 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.084	U, J, Q-2, CLP03	mg/kg dry	0.15	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	65		%		7/29/07	8/03/07	CLP Inorganics
7429-90-5	Aluminum	9200	J, Q-5	mg/kg dry	30	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	9.1	U, R, QM-6, CLP14	mg/kg dry	9.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.5	U, J, QM-1, CLP07	mg/kg dry	1.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-39-3	Barium	50	J, Q-5	mg/kg dry	30	7/29/07	8/03/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.49	U, J, Q-2, CLP03	mg/kg dry	0.76	7/29/07	8/03/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.76	U, J, QM-1	mg/kg dry	0.76	7/29/07	8/03/07	CLP ILM05.4 P
7440-70-2	Calcium	330	J, Q-5, CLP07	mg/kg dry	760	7/29/07	8/03/07	CLP ILM05.4 P
7440-47-3	Chromium	17	J, Q-5	mg/kg dry	1.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-48-4	Cobalt	7.1	J, Q-2	mg/kg dry	7.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-50-8	Copper	120	J, CLP07	mg/kg dry	3.8	7/29/07	8/03/07	CLP ILM05.4 P
7439-89-6	Iron	39000	J, Q-5, CLP07	mg/kg dry	15	7/29/07	8/03/07	CLP ILM05.4 P
7439-92-1	Lead	5.3	J, Q-5, CLP07	mg/kg dry	1.5	7/29/07	8/03/07	CLP ILM05.4 P
7439-95-4	Magnesium	2300	J, Q-5, CLP06	mg/kg dry	760	7/29/07	8/03/07	CLP ILM05.4 P
7439-96-5	Manganese	150	J, Q-5, QM-1	mg/kg dry	2.3	7/29/07	8/03/07	CLP ILM05.4 P
7440-02-0	Nickel	7.9	J, Q-5, CLP07	mg/kg dry	6.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-09-7	Potassium	2100		mg/kg dry	760	7/29/07	8/03/07	CLP ILM05.4 P
7782-49-2	Selenium	1.4	R, Q-2, CLP04, QM-1	mg/kg dry	5.3	7/29/07	8/03/07	CLP ILM05.4 P
7440-22-4	Silver	1.5	U	mg/kg dry	1.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-23-5	Sodium	760	U	mg/kg dry	760	7/29/07	8/03/07	CLP ILM05.4 P
7440-28-0	Thallium	3.8	U, J, QM-1	mg/kg dry	3.8	7/29/07	8/03/07	CLP ILM05.4 P
7440-62-2	Vanadium	28	J, Q-5	mg/kg dry	7.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-66-6	Zinc	42	J, Q-5, CLP07	mg/kg dry	9.1	7/29/07	8/03/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B9 LIBRTY
D No: 44B9 A4

Sample ID: OK018-SD-002
Station ID: OK018

Lab ID: C073006-17
Matrix: Sediment

Date Collected: 7/17/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.071	U, J, Q-2, CLP03	mg/kg dry	0.16	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	61		%		7/29/07	8/03/07	CLP Inorganics
7429-90-5	Aluminum	12000	J, Q-5	mg/kg dry	33	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	9.9	U, R, QM-6, CLP14	mg/kg dry	9.9	7/29/07	8/03/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.62	R, Q-2, CLP04, QM-1, CLP07	mg/kg dry	1.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-39-3	Barium	65	J, Q-5	mg/kg dry	33	7/29/07	8/03/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.61	U, J, Q-2, CLP03	mg/kg dry	0.82	7/29/07	8/03/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.82	U, J, QM-1	mg/kg dry	0.82	7/29/07	8/03/07	CLP ILM05.4 P
7440-70-2	Calcium	270	U, J, CLP06, Q-2, B-1, Q-5	mg/kg dry	820	7/29/07	8/03/07	CLP ILM05.4 P
7440-47-3	Chromium	24	J, Q-5	mg/kg dry	1.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-48-4	Cobalt	13		mg/kg dry	8.2	7/29/07	8/03/07	CLP ILM05.4 P
7440-50-8	Copper	130	J, CLP07	mg/kg dry	4.1	7/29/07	8/03/07	CLP ILM05.4 P
7439-89-6	Iron	52000	J, CLP07, Q-5	mg/kg dry	16	7/29/07	8/03/07	CLP ILM05.4 P
7439-92-1	Lead	6.0	J, Q-5, CLP07	mg/kg dry	1.6	7/29/07	8/03/07	CLP ILM05.4 P
7439-95-4	Magnesium	3200	J, Q-5, CLP06	mg/kg dry	820	7/29/07	8/03/07	CLP ILM05.4 P
7439-96-5	Manganese	250	J, Q-5, QM-1	mg/kg dry	2.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-02-0	Nickel	11	J, Q-5, CLP07	mg/kg dry	6.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-09-7	Potassium	2900		mg/kg dry	820	7/29/07	8/03/07	CLP ILM05.4 P
7782-49-2	Selenium	0.99	R, Q-2, CLP04, QM-1	mg/kg dry	5.8	7/29/07	8/03/07	CLP ILM05.4 P
7440-22-4	Silver	1.6	U	mg/kg dry	1.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-23-5	Sodium	820	U	mg/kg dry	820	7/29/07	8/03/07	CLP ILM05.4 P
7440-28-0	Thallium	4.1	U, J, QM-1	mg/kg dry	4.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-62-2	Vanadium	38	J, Q-5	mg/kg dry	8.2	7/29/07	8/03/07	CLP ILM05.4 P
7440-66-6	Zinc	54	J, Q-5, CLP07	mg/kg dry	9.9	7/29/07	8/03/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C0 LIBRTY
D No: 44C0 A4

Sample ID: OK018-SD-003
Station ID: OK018

Lab ID: C073006-18
Matrix: Sediment

Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.054	U, J, Q-2, CLP03	mg/kg dry	0.12	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	68		%		7/29/07	8/03/07	CLP Inorganics
7429-90-5	Aluminum	5000	J, Q-5	mg/kg dry	28	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	8.4	U, R, QM-6, CLP14	mg/kg dry	8.4	7/29/07	8/03/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.4	U, J, QM-1, CLP07	mg/kg dry	1.4	7/29/07	8/03/07	CLP ILM05.4 P
7440-39-3	Barium	32	J, Q-5	mg/kg dry	28	7/29/07	8/03/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.26	U, J, Q-2, CLP03	mg/kg dry	0.70	7/29/07	8/03/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.70	U, J, QM-1	mg/kg dry	0.70	7/29/07	8/03/07	CLP ILM05.4 P
7440-70-2	Calcium	250	U, J, Q-5, CLP06, Q-2,	mg/kg dry	700	7/29/07	8/03/07	CLP ILM05.4 P
7440-47-3	Chromium	8.8	J, Q-5	mg/kg dry	1.4	7/29/07	8/03/07	CLP ILM05.4 P
7440-48-4	Cobalt	4.3	J, Q-2	mg/kg dry	7.0	7/29/07	8/03/07	CLP ILM05.4 P
7440-50-8	Copper	69	J, CLP07	mg/kg dry	3.5	7/29/07	8/03/07	CLP ILM05.4 P
7439-89-6	Iron	22000	J, Q-5, CLP07	mg/kg dry	14	7/29/07	8/03/07	CLP ILM05.4 P
7439-92-1	Lead	2.7	J, Q-5, CLP07	mg/kg dry	1.4	7/29/07	8/03/07	CLP ILM05.4 P
7439-95-4	Magnesium	1400	J, Q-5, CLP06	mg/kg dry	700	7/29/07	8/03/07	CLP ILM05.4 P
7439-96-5	Manganese	94	J, Q-5, QM-1	mg/kg dry	2.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-02-0	Nickel	4.2	U, J, Q-2, CLP03, Q-5,	mg/kg dry	5.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-09-7	Potassium	1300		mg/kg dry	700	7/29/07	8/03/07	CLP ILM05.4 P
7782-49-2	Selenium	0.59	R, Q-2, CLP04, QM-1	mg/kg dry	4.9	7/29/07	8/03/07	CLP ILM05.4 P
7440-22-4	Silver	1.4	U	mg/kg dry	1.4	7/29/07	8/03/07	CLP ILM05.4 P
7440-23-5	Sodium	38	U, J, Q-2, B-1	mg/kg dry	700	7/29/07	8/03/07	CLP ILM05.4 P
7440-28-0	Thallium	3.5	U, J, QM-1	mg/kg dry	3.5	7/29/07	8/03/07	CLP ILM05.4 P
7440-62-2	Vanadium	16	J, Q-5	mg/kg dry	7.0	7/29/07	8/03/07	CLP ILM05.4 P
7440-66-6	Zinc	24	J, Q-5, CLP07	mg/kg dry	8.4	7/29/07	8/03/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C1 LIBRTY
D No: 44C1 A4

Sample ID: OK417-SL-001
Station ID: OK417

Lab ID: C073006-19
Matrix: Surface Soil

Date Collected: 7/18/07 17:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.23		mg/kg dry	0.15	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	66		%		7/29/07	8/03/07	CLP Inorganics
7429-90-5	Aluminum	14000	J, Q-5	mg/kg dry	28	7/29/07	8/03/07	CLP ILM05.4 P
7440-36-0	Antimony	8.6	U, R, QM-6, CLP14	mg/kg dry	8.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.6	J, QM-1, CLP07	mg/kg dry	1.4	7/29/07	8/03/07	CLP ILM05.4 P
7440-39-3	Barium	200	J, Q-5	mg/kg dry	28	7/29/07	8/03/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.36	U, J, CLP03, Q-2	mg/kg dry	0.71	7/29/07	8/03/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.82	J, QM-1	mg/kg dry	0.71	7/29/07	8/03/07	CLP ILM05.4 P
7440-70-2	Calcium	4800	J, Q-5, CLP07	mg/kg dry	710	7/29/07	8/03/07	CLP ILM05.4 P
7440-47-3	Chromium	55	J, Q-5	mg/kg dry	1.4	7/29/07	8/03/07	CLP ILM05.4 P
7440-48-4	Cobalt	22		mg/kg dry	7.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-50-8	Copper	9600	J, CLP07	mg/kg dry	7.1	7/29/07	8/05/07	CLP ILM05.4 P
7439-89-6	Iron	48000	J, Q-5, CLP07	mg/kg dry	14	7/29/07	8/03/07	CLP ILM05.4 P
7439-92-1	Lead	32	J, Q-5, CLP07	mg/kg dry	1.4	7/29/07	8/03/07	CLP ILM05.4 P
7439-95-4	Magnesium	5300	J, Q-5, CLP06	mg/kg dry	710	7/29/07	8/03/07	CLP ILM05.4 P
7439-96-5	Manganese	290	J, Q-5, QM-1	mg/kg dry	2.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-02-0	Nickel	18	J, Q-5, CLP07	mg/kg dry	5.7	7/29/07	8/03/07	CLP ILM05.4 P
7440-09-7	Potassium	5500		mg/kg dry	710	7/29/07	8/03/07	CLP ILM05.4 P
7782-49-2	Selenium	6.4	J, QM-1	mg/kg dry	5.0	7/29/07	8/03/07	CLP ILM05.4 P
7440-22-4	Silver	2.2		mg/kg dry	1.4	7/29/07	8/03/07	CLP ILM05.4 P
7440-23-5	Sodium	710	U	mg/kg dry	710	7/29/07	8/03/07	CLP ILM05.4 P
7440-28-0	Thallium	3.6	U, J, QM-1	mg/kg dry	3.6	7/29/07	8/03/07	CLP ILM05.4 P
7440-62-2	Vanadium	33	J, Q-5	mg/kg dry	7.1	7/29/07	8/03/07	CLP ILM05.4 P
7440-66-6	Zinc	490	J, Q-5, CLP07	mg/kg dry	8.6	7/29/07	8/03/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C2 LIBRTY
D No: 44C2 A4

Sample ID: OK415-SL-001
Station ID: OK415

Lab ID: C073006-20
Matrix: Surface Soil

Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.23		mg/kg dry	0.12	7/29/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	6200		mg/kg dry	23	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	7.0	U, R, QM-6, CLP14	mg/kg dry	7.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.4	J, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	140		mg/kg dry	23	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.32	J, Q-2	mg/kg dry	0.58	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.76	J, Q-2, CLP03	mg/kg dry	0.58	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	150	J, CLP06, Q-2	mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	20		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.9	U, J, Q-2, CLP03	mg/kg dry	5.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	510	J, CLP07	mg/kg dry	2.9	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	94000	J, CLP07	mg/kg dry	23	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	22	J, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	2200	J, CLP06	mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	130		mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	3.7	U, J, Q-2, CLP03, CLP07	mg/kg dry	4.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	7200		mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	13	J, Q-5	mg/kg dry	4.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	1.4		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	400	J, Q-2	mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	0.99	R, Q-2, CLP04	mg/kg dry	2.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	40		mg/kg dry	5.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	230	J, QM-4, QM-6, CLP07	mg/kg dry	7.0	7/29/07	8/10/07	CLP ILM05.4 P

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980 College Station Road, Athens, Georgia 30605-2700

Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C2 LIBRTY
D No: 44C2 A4

Sample ID: OK415-SL-001
Station ID: OK415

Lab ID: C073006-20
Matrix: Surface Soil

Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	2.9	U	mg/kg dry	2.9	7/31/07	8/01/07	CLP ILM05.4 AS

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980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C3 LIBRTY
D No: 44C3 A4

Sample ID: OK019-SD-001
Station ID: OK019

Lab ID: C073006-21
Matrix: Sediment

Date Collected: 7/17/07 15:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	69		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	2800		mg/kg dry	28	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	8.3	U, R, QM-1, CLP14, CLP20	mg/kg dry	8.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.4	U, J, CLP07	mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	26	J, Q-2	mg/kg dry	28	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.18	U, J, Q-2, CLP03	mg/kg dry	0.69	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.69	U	mg/kg dry	0.69	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	500	J, Q-2, CLP06	mg/kg dry	690	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	8.4		mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.4	J, Q-2	mg/kg dry	6.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	4.0	J, CLP07	mg/kg dry	3.4	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	5900	J, CLP07	mg/kg dry	14	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	1.6	J, QM-1, CLP07	mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	780	J, CLP06	mg/kg dry	690	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	230	J, QM-1	mg/kg dry	2.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	3.6	U, J, Q-2, CLP03, CLP02	mg/kg dry	5.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	510	J, Q-2	mg/kg dry	690	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	4.8	U, J, QM-1	mg/kg dry	4.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.4	U	mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	52	U, J, Q-2, B-1	mg/kg dry	690	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.4	U, J, QM-1	mg/kg dry	3.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	12		mg/kg dry	6.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	15	J, CLP07	mg/kg dry	8.3	7/24/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C4 LIBRTY
D No: 44C4 A4

Sample ID: OK019-SD-002
Station ID: OK019
Lab ID: C073006-22
Matrix: Sediment
Date Collected: 7/17/07 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	80		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	19000		mg/kg dry	25	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	7.5	U, R, QM-1, CLP14, CLP20	mg/kg dry	7.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.4	J, CLP07	mg/kg dry	1.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	150		mg/kg dry	25	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.90		mg/kg dry	0.63	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.63	U	mg/kg dry	0.63	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	1500	J, CLP06	mg/kg dry	630	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	32		mg/kg dry	1.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	16		mg/kg dry	6.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	32	J, CLP07	mg/kg dry	3.1	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	26000	J, CLP07	mg/kg dry	13	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	9.1	J, QM-1, CLP07	mg/kg dry	1.3	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	4800	J, CLP06	mg/kg dry	630	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	470	J, QM-1	mg/kg dry	1.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	19	J, CLP07	mg/kg dry	5.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	4100		mg/kg dry	630	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	4.4	U, J, QM-1	mg/kg dry	4.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.3	U	mg/kg dry	1.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	630	U	mg/kg dry	630	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.1	U, J, QM-1	mg/kg dry	3.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	52		mg/kg dry	6.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	81	J, CLP07	mg/kg dry	7.5	7/24/07	8/02/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C5 LIBRTY
D No: 44C5 A4

Sample ID: OK204-SL-001
Station ID: OK204

Lab ID: C073006-23
Matrix: Surface Soil

Date Collected: 7/17/07 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U	mg/kg dry	0.10	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	81		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	3500		mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	0.31	U, J, Q-2, CLP03, QM-1	mg/kg dry	7.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.2	U, J, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	19	J, Q-2	mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.24	U, J, Q-2, CLP03	mg/kg dry	0.60	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.60	U	mg/kg dry	0.60	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	340	J, Q-2, CLP07	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	13		mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.7	J, Q-2	mg/kg dry	6.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	5.7	J, CLP07	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	6400	J, CLP07	mg/kg dry	12	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	1.7	J, QM-1, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	480	J, Q-2, CLP06	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	180	J, QM-1	mg/kg dry	1.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	3.1	U, J, Q-2, CLP03, CLP07	mg/kg dry	4.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	310	J, Q-2	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	4.2	U, J, QM-1	mg/kg dry	4.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	0.085	U, J, Q-2, CLP03	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	71	U, J, Q-2, B-1	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U, J, QM-1	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	12		mg/kg dry	6.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	14	J, CLP07	mg/kg dry	7.2	7/24/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C6 LIBRTY
D No: 44C6 A4

Sample ID: OK205-SL-001
Station ID: OK205

Lab ID: C073006-24
Matrix: Surface Soil

Date Collected: 7/17/07 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U	mg/kg dry	0.11	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	83		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	13000		mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	7.1	U, R, QM-1, CLP14, CLP20	mg/kg dry	7.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.67	CLP04, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	85		mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.65		mg/kg dry	0.59	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.59	U	mg/kg dry	0.59	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	790	J, CLP06	mg/kg dry	590	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	20		mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	9.9		mg/kg dry	5.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	43	J, CLP07	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	21000	J, CLP07	mg/kg dry	12	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	12	J, QM-1, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	3100	J, CLP06	mg/kg dry	590	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	280	J, QM-1	mg/kg dry	1.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	12	J, CLP06	mg/kg dry	4.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	2200		mg/kg dry	590	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.37	R, Q-2, CLP04, QM-1	mg/kg dry	4.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	590	U	mg/kg dry	590	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U, J, QM-1	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	33		mg/kg dry	5.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	67	J, CLP07	mg/kg dry	7.1	7/24/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C7 LIBRTY
D No: 44C7 A4

Sample ID: OK200-SL-001
Station ID: OK200

Lab ID: C073006-25
Matrix: Surface Soil

Date Collected: 7/17/07 18:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.27		mg/kg dry	0.18	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	50		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	14000		mg/kg dry	40	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	12	U, R, QM-1, CLP14, CLP20	mg/kg dry	12	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.8	J, CLP07	mg/kg dry	2.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	270		mg/kg dry	40	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.40	U, J, Q-2, CLP07	mg/kg dry	0.99	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	4.0		mg/kg dry	0.99	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	430	J, Q-2, CLP06	mg/kg dry	990	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	35		mg/kg dry	2.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	6.0	J, Q-2	mg/kg dry	9.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	800	J, CLP07	mg/kg dry	4.9	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	550000	J, CLP07	mg/kg dry	200	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	24	J, QM-1, CLP07	mg/kg dry	2.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	2300	J, CLP06	mg/kg dry	990	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	230	J, QM-1	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	7.8	U, J, Q-2, CLP03, CLP07	mg/kg dry	7.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	10000		mg/kg dry	990	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	23	J, QM-1	mg/kg dry	6.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.4	J, Q-2	mg/kg dry	2.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	350	U, J, Q-2, B-1	mg/kg dry	990	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	4.0	R, Q-2, CLP04, QM-1	mg/kg dry	4.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	73		mg/kg dry	9.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	130	J, CLP07	mg/kg dry	12	7/24/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C8 LIBRTY
D No: 44C8 A4

Sample ID: OK201-SL-001
Station ID: OK201

Lab ID: C073006-26
Matrix: Surface Soil

Date Collected: 7/17/07 17:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.23		mg/kg dry	0.14	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	69		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	3800		mg/kg dry	28	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	8.4	U, R, QM-1, CLP14, CLP20	mg/kg dry	8.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.6	J, CLP07	mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	95		mg/kg dry	28	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.12	U, J, Q-2, CLP03	mg/kg dry	0.70	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.70	U	mg/kg dry	0.70	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	320	J, Q-2, CLP06	mg/kg dry	700	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	13		mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	2.1	J, Q-2	mg/kg dry	7.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	300	J, CLP07	mg/kg dry	3.5	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	180000	J, CLP07	mg/kg dry	70	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	6.6	J, QM-1, CLP07	mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	880	J, CLP06	mg/kg dry	700	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	100	J, QM-1	mg/kg dry	2.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	2.1	U, J, Q-2, CLP03, CLP07	mg/kg dry	5.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	3300		mg/kg dry	700	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	14	J, QM-1	mg/kg dry	4.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	0.62	J, Q-2	mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	86	U, J, Q-2, B-1	mg/kg dry	700	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.5	U, J, QM-1	mg/kg dry	3.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	28		mg/kg dry	7.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	65	J, CLP07	mg/kg dry	8.4	7/24/07	8/02/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C9 LIBRTY
D No: 44C9 A4

Sample ID: OK202-SL-001
Station ID: OK202

Lab ID: C073006-27
Matrix: Surface Soil

Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.13	U	mg/kg dry	0.13	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	74		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	18000		mg/kg dry	27	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	8.1	U, R, QM-1, CLP14, CLP20	mg/kg dry	8.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.5	J, CLP07	mg/kg dry	1.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	88		mg/kg dry	27	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.90		mg/kg dry	0.67	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.67	U	mg/kg dry	0.67	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	610	J, Q-2, CLP06	mg/kg dry	670	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	33		mg/kg dry	1.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	15		mg/kg dry	6.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	110	J, CLP07	mg/kg dry	3.4	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	36000	J, CLP07	mg/kg dry	13	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	10	J, QM-1, CLP07	mg/kg dry	1.3	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	3700	J, CLP06	mg/kg dry	670	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	370	J, QM-1	mg/kg dry	2.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	14	J, CLP07	mg/kg dry	5.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	3500		mg/kg dry	670	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.79	R, Q-2, CLP04	mg/kg dry	4.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.3	U	mg/kg dry	1.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	53	U, J, Q-2, B-1	mg/kg dry	670	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.4	U, J, QM-1	mg/kg dry	3.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	42		mg/kg dry	6.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	72	J, CLP07	mg/kg dry	8.1	7/24/07	8/02/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D0 LIBRTY
D No: 44D0 A4

Sample ID: OK203-SL-001
Station ID: OK203

Lab ID: C073006-28
Matrix: Surface Soil

Date Collected: 7/17/07 17:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.046	U, J, Q-2, CLP01	mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	82		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	16000		mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	7.3	U, R, QM-1, CLP14, CLP20	mg/kg dry	7.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	J, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	79		mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.75		mg/kg dry	0.61	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.61	U	mg/kg dry	0.61	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	440	J, CLP06, Q-2	mg/kg dry	610	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	25		mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	11		mg/kg dry	6.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	94	J, CLP07	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	29000	J, CLP07	mg/kg dry	12	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	9.3	J, QM-1, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	3200	J, CLP06	mg/kg dry	610	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	270	J, QM-1	mg/kg dry	1.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	11	J, CLP07	mg/kg dry	4.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	3300		mg/kg dry	610	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.68	R, Q-2, CLP04	mg/kg dry	4.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	610	U	mg/kg dry	610	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U, J, QM-1	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	37		mg/kg dry	6.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	57	J, CLP07	mg/kg dry	7.3	7/24/07	8/02/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D1 LIBRTY
D No: 44D1 A4

Sample ID: OK020-SD-001
Station ID: OK020

Lab ID: C073006-29
Matrix: Sediment

Date Collected: 7/17/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.71		mg/kg dry	0.11	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	84		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	3700		mg/kg dry	23	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	6.8	U, R, QM-1, CLP14, CLP20	mg/kg dry	6.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	U, J, CLP07	mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	28		mg/kg dry	23	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.29	U, J, Q-2, CLP03	mg/kg dry	0.57	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.57	U	mg/kg dry	0.57	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	520	J, CLP06	mg/kg dry	570	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	16		mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	4.0	J, Q-2	mg/kg dry	5.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	9.8	J, CLP07	mg/kg dry	2.9	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	10000	J, CLP07	mg/kg dry	11	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	1.6	J, QM-1, CLP07	mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	850	J, CLP06	mg/kg dry	570	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	140	J, QM-1	mg/kg dry	1.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	4.7	J, CLP07	mg/kg dry	4.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	580		mg/kg dry	570	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	4.0	U, J, QM-1	mg/kg dry	4.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	0.074	U, J, Q-2, CLP03	mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	49	U, J, Q-2, B-1	mg/kg dry	570	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U, J, QM-1	mg/kg dry	2.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	22		mg/kg dry	5.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	20	J, CLP07	mg/kg dry	6.8	7/24/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D2 LIBRTY
D No: 44D2 A4

Sample ID: OK300-WA-001
Station ID: OK300

Lab ID: C073006-30
Matrix: Surface Soil

Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.047	U, J, Q-2, CLP01	mg/kg dry	0.098	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	82		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	24000		mg/kg dry	23	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	6.9	U, R, QM-1, CLP14, CLP20	mg/kg dry	6.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.5	J, CLP07	mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	63		mg/kg dry	23	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.65		mg/kg dry	0.57	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.57	U	mg/kg dry	0.57	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	120	J, Q-2, CLP06	mg/kg dry	570	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	24		mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	5.7		mg/kg dry	5.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	62	J, CLP07	mg/kg dry	2.9	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	31000	J, CLP07	mg/kg dry	11	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	13	J, QM-1, CLP07	mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1600	J, CLP06	mg/kg dry	570	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	100	J, QM-1	mg/kg dry	1.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	8.5	J, CLP07	mg/kg dry	4.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	1400		mg/kg dry	570	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	1.6	R, Q-2, CLP04	mg/kg dry	4.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.1	U	mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	570	U	mg/kg dry	570	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U, J, QM-1	mg/kg dry	2.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	38		mg/kg dry	5.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	57	J, CLP07	mg/kg dry	6.9	7/24/07	8/02/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D3 LIBRTY
D No: 44D3 A4

Sample ID: OK301-WA-001
Station ID: OK301

Lab ID: C073006-31
Matrix: Surface Soil

Date Collected: 7/17/07 18:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.080	U, J, Q-2, CLP01	mg/kg dry	0.10	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	80		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	24000		mg/kg dry	23	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	6.9	U, R, QM-1, CLP14, CLP20	mg/kg dry	6.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.5	J, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	110		mg/kg dry	23	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.80		mg/kg dry	0.58	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.58	U	mg/kg dry	0.58	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	150	J, Q-2, CLP06	mg/kg dry	580	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	25		mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	9.0		mg/kg dry	5.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	33	J, CLP07	mg/kg dry	2.9	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	28000	J, CLP07	mg/kg dry	12	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	12	J, QM-1, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	2500	J, CLP06	mg/kg dry	580	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	230	J, Q-5	mg/kg dry	1.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	14	J, CLP07	mg/kg dry	4.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	2600		mg/kg dry	580	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.35	R, Q-2, CLP04, QM-1	mg/kg dry	4.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	580	U	mg/kg dry	580	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U, J, QM-1	mg/kg dry	2.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	43		mg/kg dry	5.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	67	J, CLP07	mg/kg dry	6.9	7/24/07	8/02/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D4 LIBRTY

D No:

Sample ID: OK351-WA-001

Station ID: OK351

Lab ID: C073006-32

Matrix: Surface Soil

Date Collected: 7/17/07 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.21		mg/kg dry	0.10	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	84		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	6300		mg/kg dry	22	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	6.6	U, R, QM-1, CLP14, CLP20	mg/kg dry	6.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	9.2	J, CLP07	mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	190		mg/kg dry	22	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.24	U, J, Q-2, CLP07	mg/kg dry	0.55	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.17	R, Q-2, CLP04	mg/kg dry	0.55	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	980	J, CLP06	mg/kg dry	550	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	21		mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	110		mg/kg dry	5.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	2600	J, CLP07	mg/kg dry	2.8	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	160000	J, CLP07	mg/kg dry	55	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	21	J, QM-1, CLP07	mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1600	J, CLP06	mg/kg dry	550	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	210	J, QM-1	mg/kg dry	1.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	5.5	J, CLP07	mg/kg dry	4.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	5800		mg/kg dry	550	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	52	J, QM-1	mg/kg dry	3.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	2.4		mg/kg dry	1.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	140	U, J, Q-2, B-1	mg/kg dry	550	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U, J, QM-1	mg/kg dry	2.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	57		mg/kg dry	5.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	200		mg/kg dry	6.6	7/24/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D5 LIBRTY
D No: 44D5 A4

Sample ID: OK352-WA-001
Station ID: OK352

Lab ID: C073006-33
Matrix: Surface Soil

Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.51		mg/kg dry	0.14	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	70		%		7/24/07	8/02/07	CLP Inorganics
7429-90-5	Aluminum	9000		mg/kg dry	28	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	8.4	U, R, QM-1, CLP14, CLP20	mg/kg dry	8.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.3	J, CLP07	mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	130		mg/kg dry	28	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.29	U, J, Q-2, CLP07	mg/kg dry	0.70	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	3.1		mg/kg dry	0.70	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	6500		mg/kg dry	700	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	38		mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	130		mg/kg dry	7.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	540	J, CLP07	mg/kg dry	3.5	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	120000	J, CLP07	mg/kg dry	70	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	6.7	J, QM-1, CLP07	mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	4800	J, CLP06	mg/kg dry	700	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	730	J, QM-1	mg/kg dry	2.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	23	J, CLP07	mg/kg dry	5.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	4700		mg/kg dry	700	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	13	J, QM-1	mg/kg dry	4.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	0.84	U, J, Q-2, CLP03	mg/kg dry	1.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	140	U, J, Q-2, B-1	mg/kg dry	700	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.5	U, J, QM-1	mg/kg dry	3.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	30		mg/kg dry	7.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	1400	J	mg/kg dry	8.4	7/24/07	8/02/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D8 LIBRTY
D No: 44D8 A4

Sample ID: OK408-SL-001
Station ID: OK408

Lab ID: C073006-34
Matrix: Surface Soil

Date Collected: 7/18/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.054	U, J, Q-2, CLP01	mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	19000		mg/kg dry	23	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	7.0	U, R, QM-1, CLP14, CLP20	mg/kg dry	7.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.0	J, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	110		mg/kg dry	23	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.78		mg/kg dry	0.58	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.58	U	mg/kg dry	0.58	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	410	J, CLP06	mg/kg dry	580	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	27		mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	9.7		mg/kg dry	5.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	17	J, CLP07	mg/kg dry	2.9	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	29000	J, CLP07	mg/kg dry	12	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	12	J, QM-1, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	2800	J, CLP06	mg/kg dry	580	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	250	J, QM-1	mg/kg dry	1.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	9.8	J, CLP07	mg/kg dry	4.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	4000		mg/kg dry	580	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.30	R, Q-2, CLP04, QM-1	mg/kg dry	4.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	580	U	mg/kg dry	580	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U, J, QM-1	mg/kg dry	2.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	47		mg/kg dry	5.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	48	J, CLP07	mg/kg dry	7.0	7/24/07	8/02/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D8 LIBRTY
D No: 44D8 A4

Sample ID: OK408-SL-001
Station ID: OK408

Lab ID: C073006-34
Matrix: Surface Soil

Date Collected: 7/18/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	2.9	U	mg/kg dry	2.9	7/27/07	7/30/07	CLP ILM05.4 AS

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980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D9 LIBRTY
D No: 44D9 A4

Sample ID: OK414-SL-001
Station ID: OK414

Lab ID: C073006-35
Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.16		mg/kg dry	0.16	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	3600		mg/kg dry	34	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	10	U, R, QM-1, CLP14, CLP20	mg/kg dry	10	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	14	J, CLP07	mg/kg dry	1.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	240		mg/kg dry	34	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.13	U, J, Q-2, CLP03	mg/kg dry	0.85	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	1.3		mg/kg dry	0.85	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	21000	J, CLP06	mg/kg dry	850	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	22		mg/kg dry	1.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	310		mg/kg dry	8.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	1300	J, CLP07	mg/kg dry	4.2	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	180000	J, CLP07	mg/kg dry	85	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	24	J, QM-1, CLP07	mg/kg dry	1.7	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	730	J, CLP06	mg/kg dry	850	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	150	J, QM-1	mg/kg dry	2.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	14	J, CLP07	mg/kg dry	6.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	11000		mg/kg dry	850	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	77	J, QM-1	mg/kg dry	5.9	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.7	U	mg/kg dry	1.7	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	1400		mg/kg dry	850	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	4.2	U, J, QM-1	mg/kg dry	4.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	24		mg/kg dry	8.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	350	J, CLP07	mg/kg dry	10	7/24/07	8/02/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D9 LIBRTY
D No: 44D9 A4

Sample ID: OK414-SL-001
Station ID: OK414

Lab ID: C073006-35
Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	59		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	0.76	U, J, Q-2, CLP07	mg/kg dry	4.2	7/27/07	7/30/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E0 LIBRTY
D No: 44E0 A4

Sample ID: OK414-SL-001D
Station ID: OK414

Lab ID: C073006-36
Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.063	U, J, Q-2, CLP01	mg/kg dry	0.15	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	9800		mg/kg dry	32	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	9.6	U, R, QM-1, CLP14, CLP20	mg/kg dry	9.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	28	J, CLP07	mg/kg dry	1.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	280		mg/kg dry	32	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.24	U, J, Q-2, CLP03	mg/kg dry	0.80	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	19		mg/kg dry	0.80	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	33000	J, CLP06	mg/kg dry	800	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	64		mg/kg dry	1.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	680		mg/kg dry	8.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	7700	J, CLP07	mg/kg dry	4.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	210000	J, CLP07	mg/kg dry	80	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	26	J, QM-1, CLP07	mg/kg dry	1.6	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	3700	J, CLP06	mg/kg dry	800	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	460	J, QM-1	mg/kg dry	2.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	68	J, CLP07	mg/kg dry	6.4	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	8100		mg/kg dry	800	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	65	J, QM-1	mg/kg dry	5.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	4.1		mg/kg dry	1.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	490	J, Q-2	mg/kg dry	800	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	4.0	U, J, QM-1	mg/kg dry	4.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	90		mg/kg dry	8.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	1600	J, CLP07	mg/kg dry	9.6	7/24/07	8/02/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E0 LIBRTY
D No: 44E0 A4

Sample ID: OK414-SL-001D
Station ID: OK414

Lab ID: C073006-36
Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	63		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	3.9	U	mg/kg dry	3.9	7/27/07	7/30/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E1 LIBRTY
D No: 44E1 A4

Sample ID: OK419-SL-001
Station ID: OK419

Lab ID: C073006-37
Matrix: Surface Soil

Date Collected: 7/18/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.076	U, J, Q-2, CLP01	mg/kg dry	0.089	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	10000		mg/kg dry	21	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	6.3	U, R, QM-1, CLP14, CLP20	mg/kg dry	6.3	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.50	R, CLP07, Q-2, CLP04	mg/kg dry	1.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	79		mg/kg dry	21	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.58		mg/kg dry	0.52	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.52	U	mg/kg dry	0.52	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	700	J, CLP06	mg/kg dry	520	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	12		mg/kg dry	1.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	8.0		mg/kg dry	5.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	19	J, CLP07	mg/kg dry	2.6	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	14000	J, CLP07	mg/kg dry	10	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	4.5	J, QM-1, CLP07	mg/kg dry	1.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	2400	J, CLP06	mg/kg dry	520	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	330	J, QM-1	mg/kg dry	1.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	8.8	J, CLP07	mg/kg dry	4.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	2000		mg/kg dry	520	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	3.6	U, J, QM-1	mg/kg dry	3.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.0	U	mg/kg dry	1.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	520	U	mg/kg dry	520	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.6	U, J, QM-1	mg/kg dry	2.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	23		mg/kg dry	5.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	54	J, CLP01	mg/kg dry	6.3	7/24/07	8/02/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E1 LIBRTY
D No: 44E1 A4

Sample ID: OK419-SL-001
Station ID: OK419

Lab ID: C073006-37
Matrix: Surface Soil

Date Collected: 7/18/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	2.6	U	mg/kg dry	2.6	7/27/07	7/30/07	CLP ILM05.4 AS

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E2 LIBRTY
D No: 44E2 A4

Sample ID: OK416-SL-001
Station ID: OK416

Lab ID: C073006-38
Matrix: Surface Soil

Date Collected: 7/18/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.16		mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	7200		mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	7.2	U, R, CLP14, QM-1, CLP20	mg/kg dry	7.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.46	R, Q-2, CLP14, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	37		mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.32	U, J, Q-2, CLP03	mg/kg dry	0.60	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.60	U	mg/kg dry	0.60	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	220	J, Q-2, CLP06	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	9.9		mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	4.7	J, Q-2	mg/kg dry	6.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	29	J	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	18000	J, CLP07	mg/kg dry	12	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	3.4	J, QM-1, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1700	J, CLP06	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	83	J, QM-1	mg/kg dry	1.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	5.6	J, CLP07	mg/kg dry	4.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	1600		mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.58	R, Q-2, CLP04, QM-1	mg/kg dry	4.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	22	U, J, Q-2, B-1	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U, J, QM-1	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	19		mg/kg dry	6.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	25	J, CLP07	mg/kg dry	7.2	7/24/07	8/02/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E2 LIBRTY
D No: 44E2 A4

Sample ID: OK416-SL-001
Station ID: OK416

Lab ID: C073006-38
Matrix: Surface Soil

Date Collected: 7/18/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	77		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	0.36	U, J, Q-2, CLP01	mg/kg dry	3.2	7/27/07	7/30/07	CLP ILM05.4 AS

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980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E3 LIBRTY
D No: 44E3 A4

Sample ID: OK413-SL-001
Station ID: OK412

Lab ID: C073006-39
Matrix: Surface Soil

Date Collected: 7/18/07 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.28		mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	9600		mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	7.2	U, R, QM-1, CLP14, CLP20	mg/kg dry	7.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.82	R, Q-2, CLP04, CLP07	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	41		mg/kg dry	24	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.33	U, J, Q-2, CLP03	mg/kg dry	0.60	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.60	U	mg/kg dry	0.60	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	190	J, Q-2, CLP06	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	11		mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	4.7	J, Q-2	mg/kg dry	6.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	26	J, CLP07	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	26000	J, CLP07	mg/kg dry	12	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	5.1	J, CLP07, QM-1	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1400	J, CLP06	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	200	J, QM-1	mg/kg dry	1.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	6.0	J, CLP07	mg/kg dry	4.8	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	1300		mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	1.7	J, Q-2	mg/kg dry	4.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	0.068	U, J, Q-2, CLP03	mg/kg dry	1.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	56	U, J, Q-2, B-1	mg/kg dry	600	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U, J, QM-1	mg/kg dry	3.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	21		mg/kg dry	6.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	28	J, CLP07	mg/kg dry	7.2	7/24/07	8/02/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E3 LIBRTY
D No: 44E3 A4

Sample ID: OK413-SL-001
Station ID: OK412

Lab ID: C073006-39
Matrix: Surface Soil

Date Collected: 7/18/07 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	77		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	1.7		mg/kg dry	3.2	7/27/07	7/30/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E4 LIBRTY
D No: 44E4 A4

Sample ID: OK418-SL-001
Station ID: OK418

Lab ID: C073006-40
Matrix: Surface Soil

Date Collected: 7/18/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12		mg/kg dry	0.092	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	9300		mg/kg dry	21	7/24/07	8/02/07	CLP ILM05.4 P
7440-36-0	Antimony	6.2	U, R, QM-1, CLP14, CLP20	mg/kg dry	6.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.42	R, Q-2, CLP04, CLP07	mg/kg dry	1.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-39-3	Barium	62		mg/kg dry	21	7/24/07	8/02/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.53		mg/kg dry	0.52	7/24/07	8/02/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.52	U	mg/kg dry	0.52	7/24/07	8/02/07	CLP ILM05.4 P
7440-70-2	Calcium	500	J, CLP06, Q-2	mg/kg dry	520	7/24/07	8/02/07	CLP ILM05.4 P
7440-47-3	Chromium	11		mg/kg dry	1.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-48-4	Cobalt	7.2		mg/kg dry	5.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-50-8	Copper	22	J, CLP07	mg/kg dry	2.6	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	13000	J, CLP07	mg/kg dry	10	7/24/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	4.1	J, QM-1, CLP07	mg/kg dry	1.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-95-4	Magnesium	1900	J, CLP06	mg/kg dry	520	7/24/07	8/02/07	CLP ILM05.4 P
7439-96-5	Manganese	300	J, QM-1	mg/kg dry	1.5	7/24/07	8/02/07	CLP ILM05.4 P
7440-02-0	Nickel	7.5	J, CLP07	mg/kg dry	4.1	7/24/07	8/02/07	CLP ILM05.4 P
7440-09-7	Potassium	1600		mg/kg dry	520	7/24/07	8/02/07	CLP ILM05.4 P
7782-49-2	Selenium	0.36	R, Q-2, CLP04, QM-1	mg/kg dry	3.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-22-4	Silver	1.0	U	mg/kg dry	1.0	7/24/07	8/02/07	CLP ILM05.4 P
7440-23-5	Sodium	520	U	mg/kg dry	520	7/24/07	8/02/07	CLP ILM05.4 P
7440-28-0	Thallium	2.6	U, J, QM-1	mg/kg dry	2.6	7/24/07	8/02/07	CLP ILM05.4 P
7440-62-2	Vanadium	21		mg/kg dry	5.2	7/24/07	8/02/07	CLP ILM05.4 P
7440-66-6	Zinc	47	J, CLP07	mg/kg dry	6.2	7/24/07	8/02/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E4 LIBRTY
D No: 44E4 A4

Sample ID: OK418-SL-001
Station ID: OK418

Lab ID: C073006-40
Matrix: Surface Soil

Date Collected: 7/18/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	0.19	U, J, Q-2, CLP01	mg/kg dry	2.7	7/27/07	7/30/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E5 LIBRTY
D No: 44E5 A4

Sample ID: OK427-SD-001
Station ID: OK427

Lab ID: C073006-41
Matrix: Sediment

Date Collected: 7/17/07 9:29

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.49	U	mg/kg dry	0.49	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	11000		mg/kg dry	98	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	6.9	U, J, QM-1	mg/kg dry	29	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	150	J, QM-2	mg/kg dry	4.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	73	J, Q-2	mg/kg dry	98	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.13	U, J, Q-2, CLP07	mg/kg dry	2.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	1.4	U, J, Q-2, CLP03	mg/kg dry	2.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	2900	J, CLP06	mg/kg dry	2500	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	120		mg/kg dry	4.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	71		mg/kg dry	24	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	6800	J, CLP07	mg/kg dry	12	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	170000	J, CLP07	mg/kg dry	49	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	49	J, QM-2, CLP07	mg/kg dry	4.9	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	1400	J, Q-2, CLP06	mg/kg dry	2500	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	510		mg/kg dry	7.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	40	J, CLP07	mg/kg dry	20	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	670	J, Q-2	mg/kg dry	2500	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	9.3	U, J, Q-2, CLP03	mg/kg dry	17	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.5	R, Q-2, CLP04	mg/kg dry	4.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	66	U, J, Q-2, B-1	mg/kg dry	2500	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	12	U, J, QM-1	mg/kg dry	12	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	45		mg/kg dry	24	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	2700	J, CLP07	mg/kg dry	29	7/24/07	7/31/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E5 LIBRTY
D No: 44E5 A4

Sample ID: OK427-SD-001
Station ID: OK427

Lab ID: C073006-41
Matrix: Sediment

Date Collected: 7/17/07 9:29

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	20		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	12	U	mg/kg dry	12	7/27/07	7/30/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E6 LIBRTY

D No:

Sample ID: OK450-WA-001

Station ID: OK450

Lab ID: C073006-42

Matrix: Surface Soil

Date Collected: 7/18/07 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.38		mg/kg dry	0.092	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	91		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	6900		mg/kg dry	21	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	6.3	U, J, QM-1	mg/kg dry	6.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.2	J, QM-2	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	210		mg/kg dry	21	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.53	U	mg/kg dry	0.53	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.45	U, J, Q-2, CLP03	mg/kg dry	0.53	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	18000	J, CLP04	mg/kg dry	530	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	37		mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	110		mg/kg dry	5.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	20000	J, CLP07	mg/kg dry	26	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	200000	J, CLP07	mg/kg dry	100	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	17	J, QM-2, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	3000	J, CLP06	mg/kg dry	530	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	240		mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	6.5	J, CLP07	mg/kg dry	4.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	10000	J, Q-5	mg/kg dry	530	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	38		mg/kg dry	3.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	5.3		mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	460	J, Q-2	mg/kg dry	530	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.6	U, J, QM-1	mg/kg dry	2.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	55		mg/kg dry	5.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	420	J, CLP07	mg/kg dry	6.3	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E7 LIBRTY
D No: 44E7 A4

Sample ID: OK555-WA-001
Station ID: OK555

Lab ID: C073006-43
Matrix: Surface Soil

Date Collected: 7/18/07 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	83		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	3900		mg/kg dry	23	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	7.0	U, J, QM-1	mg/kg dry	7.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.2	U, J, QM-2, CLP07	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	140		mg/kg dry	23	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.080	U, J, Q-2, CLP03	mg/kg dry	0.58	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.57	U, J, Q-2, CLP03	mg/kg dry	0.58	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	210	U, J, Q-2, B-1, CLP06	mg/kg dry	580	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	10		mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	85		mg/kg dry	5.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	15000	J, CLP07	mg/kg dry	9.0	7/24/07	8/02/07	CLP ILM05.4 P
7439-89-6	Iron	270000	J, CLP07	mg/kg dry	120	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	250	J, QM-2, CLP07	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	780	J, CLP06	mg/kg dry	580	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	270		mg/kg dry	1.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	4.7	J, CLP07	mg/kg dry	4.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	2200	J, Q-5	mg/kg dry	580	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	7.8		mg/kg dry	4.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	9.4		mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	15000		mg/kg dry	580	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U, J, QM-1	mg/kg dry	2.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	21		mg/kg dry	5.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	2100	J, CLP07	mg/kg dry	22	7/24/07	8/02/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E8 LIBRTY
D No: 44E8 A4

Sample ID: OK021-SD-001
Station ID: OK021

Lab ID: C073006-44
Matrix: Sediment

Date Collected: 7/18/07 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.14	U	mg/kg dry	0.14	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	68		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	11000		mg/kg dry	29	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	8.7	U, J, QM-1	mg/kg dry	8.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	U, J, Q-2, CLP03, QM-2,	mg/kg dry	1.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	48		mg/kg dry	29	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.72	U	mg/kg dry	0.72	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.72	U	mg/kg dry	0.72	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	410	J, CLP06	mg/kg dry	720	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	46		mg/kg dry	1.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	21		mg/kg dry	7.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	340	J, CLP07	mg/kg dry	3.6	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	110000	J, CLP07	mg/kg dry	29	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	5.0	J, QM-2, CLP07	mg/kg dry	1.4	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	1900	J, CLP06	mg/kg dry	720	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	470		mg/kg dry	2.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	7.6	J, CLP07	mg/kg dry	5.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	1700	J, Q-5	mg/kg dry	720	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	3.5	U	mg/kg dry	5.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	0.077	R, Q-2, CLP04	mg/kg dry	1.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	720	U	mg/kg dry	720	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	3.6	U, J, QM-1	mg/kg dry	3.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	37		mg/kg dry	7.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	72	J, CLP07	mg/kg dry	8.7	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E9 LIBRTY
D No: 44E9 A4

Sample ID: OK024-SD-001
Station ID: OK024

Lab ID: C073006-45
Matrix: Sediment

Date Collected: 7/18/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.15	U	mg/kg dry	0.15	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	6900		mg/kg dry	31	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	9.4	U, J, QM-1	mg/kg dry	9.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.82	U, J, Q-2, CLP03, QM-2,	mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	32		mg/kg dry	31	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.26	U, J, Q-2, CLP03	mg/kg dry	0.78	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.78	U	mg/kg dry	0.78	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	320	J, Q-2, CLP06	mg/kg dry	780	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	15		mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	15		mg/kg dry	7.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	400	J, CLP07	mg/kg dry	3.9	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	130000	J, CLP07	mg/kg dry	31	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	3.1	J, QM-2, CLP07	mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	1100	J, CLP06	mg/kg dry	780	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	150		mg/kg dry	2.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	3.1	U, J, Q-2, CLP03, CLP07	mg/kg dry	6.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	1200	J, Q-5	mg/kg dry	780	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	5.0	U	mg/kg dry	5.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	0.15	R, Q-2, CLP04	mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	780	U	mg/kg dry	780	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	3.9	U, J, QM-1	mg/kg dry	3.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	25		mg/kg dry	7.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	59	J, CLP07	mg/kg dry	9.4	7/24/07	7/31/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E9 LIBRTY
D No: 44E9 A4

Sample ID: OK024-SD-001
Station ID: OK024

Lab ID: C073006-45
Matrix: Sediment

Date Collected: 7/18/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	63		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	0.26	U, J, Q-2, CLP01	mg/kg dry	3.9	7/27/07	7/30/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44F1 LIBRTY
D No: 44F1 A4

Sample ID: OK022-SD-001
Station ID: OK022

Lab ID: C073006-46
Matrix: Sediment

Date Collected: 7/18/07 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U	mg/kg dry	0.10	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	84		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	3800		mg/kg dry	23	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	6.8	U, J, QM-1	mg/kg dry	6.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.43	U, J, Q-2, CLP03, QM-2,	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	20	J, Q-2	mg/kg dry	23	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.49	U, J, Q-2, CLP03	mg/kg dry	0.57	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.57	U	mg/kg dry	0.57	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	170	J, Q-2, CLP06	mg/kg dry	570	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	22		mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	2.8	J, Q-2	mg/kg dry	5.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	5.7	J, CLP07	mg/kg dry	2.8	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	12000	J, CLP07	mg/kg dry	11	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	3.1	J, QM-2, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	750	J, CLP06	mg/kg dry	570	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	120		mg/kg dry	1.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	3.6	U, J, Q-2, CLP03, CLP07	mg/kg dry	4.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	600	J, Q-5	mg/kg dry	570	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	4.0	U	mg/kg dry	4.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.1	U	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	41	U, J, Q-2, B-1	mg/kg dry	570	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U, J, QM-1	mg/kg dry	2.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	13		mg/kg dry	5.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	18	J, CLP07	mg/kg dry	6.8	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44F2 LIBRTY
D No: 44F2 A4

Sample ID: OK023-SD-001
Station ID: OK023

Lab ID: C073006-47

Matrix: Sediment

Date Collected: 7/18/07 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U	mg/kg dry	0.10	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	80		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	9600		mg/kg dry	24	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	7.2	U, J, QM-1	mg/kg dry	7.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.55	U, J, Q-2, CLP03, QM-2,	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	31		mg/kg dry	24	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.47	U, J, Q-2, CLP03	mg/kg dry	0.60	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.60	U	mg/kg dry	0.60	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	120	J, Q-2, CLP06	mg/kg dry	600	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	19		mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	6.3		mg/kg dry	6.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	100	J, CLP07	mg/kg dry	3.0	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	40000	J, CLP07	mg/kg dry	12	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	6.3	J, QM-2, CLP07	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	2100	J, CLP07	mg/kg dry	600	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	130		mg/kg dry	1.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	5.4	J, CLP07	mg/kg dry	4.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	1600	J, Q-5	mg/kg dry	600	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	0.50	U	mg/kg dry	4.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	56	U, J, Q-2, B-1	mg/kg dry	600	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U, J, QM-1	mg/kg dry	3.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	23		mg/kg dry	6.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	44	J, CLP07	mg/kg dry	7.2	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44F9 LIBRTY
D No: 44F9 A4

Sample ID: OK551-SL-001
Station ID: OK551

Lab ID: C073006-48
Matrix: Surface Soil

Date Collected: 7/18/07 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.045	U, J, Q-2, CLP01	mg/kg dry	0.093	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	86		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	35000		mg/kg dry	23	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	0.64	U, J, QM-1	mg/kg dry	6.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.2	J, QM-2, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	100		mg/kg dry	23	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.85		mg/kg dry	0.57	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.57	U	mg/kg dry	0.57	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	660	J, CLP06	mg/kg dry	570	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	42		mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	20		mg/kg dry	5.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	300	J, CLP07	mg/kg dry	2.8	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	51000	J, CLP07	mg/kg dry	11	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	17	J, QM-2, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	4600	J, CLP06	mg/kg dry	570	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	480		mg/kg dry	1.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	19	J, CLP07	mg/kg dry	4.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	5100	J, Q-5	mg/kg dry	570	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	4.0	U	mg/kg dry	4.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.1	U	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	15	U, J, Q-2, B-1	mg/kg dry	570	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U, J, QM-1	mg/kg dry	2.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	52		mg/kg dry	5.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	180	J, CLP07	mg/kg dry	6.8	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G0 LIBRTY
D No: 44G0 A4

Sample ID: OK558-WA-001
Station ID: OK558

Lab ID: C073006-49
Matrix: Surface Soil

Date Collected: 7/18/07 17:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.090	U	mg/kg dry	0.090	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	93		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	18000		mg/kg dry	21	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	6.4	U, J, QM-1	mg/kg dry	6.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	U, J, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	300		mg/kg dry	21	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.60		mg/kg dry	0.53	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	1.6		mg/kg dry	0.53	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	34000	J, CLP06	mg/kg dry	530	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	28		mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	390		mg/kg dry	5.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	14000	J, CLP07	mg/kg dry	13	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	350000	J, CLP07	mg/kg dry	110	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	11	J, QM-2, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	5000	J, CLP06	mg/kg dry	530	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	7100		mg/kg dry	8.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	24	J, CLP07	mg/kg dry	4.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	4800	J, Q-5	mg/kg dry	530	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	3.7	U	mg/kg dry	3.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	4.2		mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	1800		mg/kg dry	530	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.7	U, J, QM-1	mg/kg dry	2.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	33		mg/kg dry	5.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	3900	J, CLP07	mg/kg dry	32	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G1 LIBRTY
D No: 44G1 A4

Sample ID: OK552-WA-001
Station ID: OK552

Lab ID: C073006-50
Matrix: Surface Soil

Date Collected: 7/18/07 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	78		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	39000		mg/kg dry	26	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	0.26	U, J, QM-1	mg/kg dry	7.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.3	U, J, Q-2, CLP03, QM-2,	mg/kg dry	1.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	190		mg/kg dry	26	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.60	U, J, Q-2, CLP03	mg/kg dry	0.64	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.64	U	mg/kg dry	0.64	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	550	J, Q-2, CLP06	mg/kg dry	640	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	46		mg/kg dry	1.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	15		mg/kg dry	6.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	200	J, CLP07	mg/kg dry	3.2	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	56000	J, CLP07	mg/kg dry	13	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	13	J, QM-2, CLP07	mg/kg dry	1.3	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	3000	J, CLP06	mg/kg dry	640	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	170		mg/kg dry	1.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	19	J, CLP07	mg/kg dry	5.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	4200	J, Q-5	mg/kg dry	640	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	4.5	U	mg/kg dry	4.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.3	U	mg/kg dry	1.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	640	U	mg/kg dry	640	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	3.2	U, J, QM-1	mg/kg dry	3.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	75		mg/kg dry	6.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	92	J, CLP07	mg/kg dry	7.7	7/24/07	7/31/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G2 LIBRTY
D No: 44G2 A4

Sample ID: OK553-SL-001
Station ID: OK553

Lab ID: C073006-51
Matrix: Surface Soil

Date Collected: 7/18/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.76		mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	82		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	23000		mg/kg dry	24	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	3.3	U, J, QM-1	mg/kg dry	7.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	J, QM-2, CLP07	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	120		mg/kg dry	24	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.59	U, J, Q-2, CLP03	mg/kg dry	0.61	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.21	U, J, Q-2, CLP03	mg/kg dry	0.61	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	810	J, CLP06	mg/kg dry	610	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	22		mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	18		mg/kg dry	6.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	680	J, CLP07	mg/kg dry	3.1	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	35000	J, CLP07	mg/kg dry	12	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	37	J, QM-1, CLP07	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	1800	J, CLP06	mg/kg dry	610	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	310		mg/kg dry	1.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	14	J, CLP07	mg/kg dry	4.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	3200	J, Q-5	mg/kg dry	610	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	4.3	U	mg/kg dry	4.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	0.13	J, Q-2	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	150	U, J, Q-2, B-1	mg/kg dry	610	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	3.1	U, J, QM-1	mg/kg dry	3.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	37		mg/kg dry	6.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	150	J, CLP07	mg/kg dry	7.3	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G3 LIBRTY
D No: 44G3 A4

Sample ID: OK554-SL-001
Station ID: OK554

Lab ID: C073006-52
Matrix: Surface Soil

Date Collected: 7/18/07 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.043	U, J, Q-2, CLP01	mg/kg dry	0.10	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	91		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	15000		mg/kg dry	21	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	6.3	U, J, QM-1	mg/kg dry	6.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.2	J, QM-2, CLP07	mg/kg dry	1.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	31	U, J, Q-2, CLP03	mg/kg dry	21	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.35	U, J	mg/kg dry	0.52	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.52	J, CLP06	mg/kg dry	0.52	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	910		mg/kg dry	520	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	23		mg/kg dry	1.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	11		mg/kg dry	5.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	290	J, CLP07	mg/kg dry	2.6	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	30000	J, CLP07	mg/kg dry	10	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	15	J, QM-2, CLP07	mg/kg dry	1.0	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	1600	J, CLP06	mg/kg dry	520	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	220		mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	7.6	J, CLP07	mg/kg dry	4.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	1200	J, Q-5	mg/kg dry	520	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	0.36	U, J, Q-2, CLP03	mg/kg dry	3.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.0	U	mg/kg dry	1.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	520	U	mg/kg dry	520	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.6	U, J, QM-1	mg/kg dry	2.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	25		mg/kg dry	5.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	72	J, CLP07	mg/kg dry	6.3	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G4 LIBRTY
D No: 44G4 A4

Sample ID: OK423-SL-001
Station ID: OK423

Lab ID: C073006-53
Matrix: Surface Soil

Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.13		mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	80		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	2300		mg/kg dry	23	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	7.0	U, J, QM-1	mg/kg dry	7.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	4.4	J, QM-2, CLP07	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	120		mg/kg dry	23	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.58	U	mg/kg dry	0.58	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.58	U	mg/kg dry	0.58	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	630	J, CLP06	mg/kg dry	580	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	12		mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	8.9		mg/kg dry	5.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	120	J, CLP07	mg/kg dry	2.9	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	110000	J, CLP07	mg/kg dry	46	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	14	J, QM-2, CLP07	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	530	J, Q-2, CLP06	mg/kg dry	580	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	220		mg/kg dry	1.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	4.6	U, J, Q-2, CLP03, CLP07	mg/kg dry	4.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	4600	J, Q-2	mg/kg dry	580	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	28		mg/kg dry	4.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.0	J, Q-2	mg/kg dry	1.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	360	J, Q-2	mg/kg dry	580	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U, J, QM-1	mg/kg dry	2.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	38		mg/kg dry	5.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	200	J, CLP07	mg/kg dry	7.0	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G5 LIBRTY
D No:

Sample ID: OK451-WA-001
Station ID: OK451

Lab ID: C073006-54
Matrix: Surface Soil

Date Collected: 7/18/07 18:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.21		mg/kg dry	0.094	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	92		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	4500		mg/kg dry	21	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	0.25	U, J, QM-1	mg/kg dry	6.3	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	4.0	J, Q-2, CLP07	mg/kg dry	1.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	140		mg/kg dry	21	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.52	U	mg/kg dry	0.52	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.52	U	mg/kg dry	0.52	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	10000	J, CLP06	mg/kg dry	520	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	24		mg/kg dry	1.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	34		mg/kg dry	5.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	5600	J, CLP07	mg/kg dry	2.6	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	120000	J, CLP07	mg/kg dry	52	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	16	J, QM-2, CLP07	mg/kg dry	1.0	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	2400	J, CLP06	mg/kg dry	520	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	130		mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	4.2	U, J, CLP07	mg/kg dry	4.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	8400	J, Q-5	mg/kg dry	520	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	21		mg/kg dry	3.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	3.8		mg/kg dry	1.0	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	330	J, Q-2	mg/kg dry	520	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.6	U, J, QM-1	mg/kg dry	2.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	37		mg/kg dry	5.2	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	77	J, CLP07	mg/kg dry	6.3	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G6 LIBRTY

D No:

Sample ID: OK452-WA-001

Station ID: OK452

Lab ID: C073006-55

Matrix: Surface Soil

Date Collected: 7/18/07 17:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20		mg/kg dry	0.12	7/29/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	14000		mg/kg dry	25	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	7.6	U, R, QM-6, CLP14	mg/kg dry	7.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.5	J, CLP07	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	230		mg/kg dry	25	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.26	J, Q-2	mg/kg dry	0.63	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	11		mg/kg dry	0.63	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	3300	J, CLP06	mg/kg dry	630	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	68		mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	230		mg/kg dry	6.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	3800	J, CLP07	mg/kg dry	3.2	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	180000	J, CLP07	mg/kg dry	63	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	12	J, CLP07	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	7200	J, CLP06	mg/kg dry	630	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	540		mg/kg dry	1.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	45	J, CLP07	mg/kg dry	5.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	8700		mg/kg dry	630	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	24	J, Q-5	mg/kg dry	4.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	1.7		mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	260	J, Q-2	mg/kg dry	630	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	1.4	R, Q-2, CLP04	mg/kg dry	3.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	48		mg/kg dry	6.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	2500	J, QM-4, QM-6, CLP07	mg/kg dry	7.6	7/29/07	8/10/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G6 LIBRTY
D No:

Sample ID: OK452-WA-001
Station ID: OK452

Lab ID: C073006-55
Matrix: Surface Soil

Date Collected: 7/18/07 17:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	8.8	J, Q-2	mg/kg dry	16	7/31/07	8/01/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G7 LIBRTY
D No:

Sample ID: OK453-WA-001
Station ID: OK453

Lab ID: C073006-56
Matrix: Surface Soil

Date Collected: 7/18/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.22		mg/kg dry	0.097	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	5500		mg/kg dry	22	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	1.9	U, J, QM-1	mg/kg dry	6.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.1	J, QM-2, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	29		mg/kg dry	22	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.15	U, J, Q-2, CLP03	mg/kg dry	0.55	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.55	U	mg/kg dry	0.55	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	540	J, Q-2, CLP06	mg/kg dry	550	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	22		mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	4.3	U, J, Q-2, CLP03	mg/kg dry	5.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	1200	J, CLP07	mg/kg dry	2.8	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	31000	J, CLP07	mg/kg dry	11	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	19	J, QM-2, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	980	J, CLP06	mg/kg dry	550	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	65		mg/kg dry	1.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	6.9	J, CLP07	mg/kg dry	4.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	1000	J, Q-2	mg/kg dry	550	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	1.7	U, J, Q-2, CLP03	mg/kg dry	3.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	0.17	J, Q-2	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	550	U	mg/kg dry	550	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U, J, QM-1	mg/kg dry	2.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	13		mg/kg dry	5.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	98	J, CLP07	mg/kg dry	6.6	7/24/07	7/31/07	CLP ILM05.4 P

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980 College Station Road, Athens, Georgia 30605-2700

Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G7 LIBRTY
D No:

Sample ID: OK453-WA-001
Station ID: OK453

Lab ID: C073006-56
Matrix: Surface Soil

Date Collected: 7/18/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	2.8	U	mg/kg dry	2.8	7/27/07	7/30/07	CLP ILM05.4 AS

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G8 LIBRTY
D No:

Sample ID: OK454-WA-001
Station ID: OK454

Lab ID: C073006-57
Matrix: Surface Soil

Date Collected: 7/18/07 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.29		mg/kg dry	0.12	7/24/07	7/26/07	CLP ILM05.4 CV
7429-90-5	Aluminum	7900		mg/kg dry	22	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	1.8	U, J, QM-1	mg/kg dry	6.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.8	J, QM-2, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	34		mg/kg dry	22	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.21	U, J, Q-2, CLP03	mg/kg dry	0.56	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.56	U	mg/kg dry	0.56	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	790	J, CLP06	mg/kg dry	560	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	22		mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	5.0	U, J, Q-2, CLP03	mg/kg dry	5.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	1700	J, CLP07	mg/kg dry	2.8	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	34000	J, CLP07	mg/kg dry	11	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	23	J, QM-2, CLP07	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	1300	J, CLP06	mg/kg dry	560	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	80		mg/kg dry	1.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	7.8	J, CLP07	mg/kg dry	4.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	1400	J, Q-5	mg/kg dry	560	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	1.4	U, J, Q-2, CLP03	mg/kg dry	3.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	0.098	R, Q-2, CLP04	mg/kg dry	1.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	560	U	mg/kg dry	560	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U, J, QM-1	mg/kg dry	2.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	17		mg/kg dry	5.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	120	J, CLP07	mg/kg dry	6.8	7/24/07	7/31/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G8 LIBRTY
D No:

Sample ID: OK454-WA-001
Station ID: OK454

Lab ID: C073006-57
Matrix: Surface Soil

Date Collected: 7/18/07 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%		7/27/07	7/30/07	CLP Inorganics
57-12-5	Cyanide	2.9	U	mg/kg dry	2.9	7/27/07	7/30/07	CLP ILM05.4 AS

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Region 4 Science and Ecosystem Support Division
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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H0 LIBRTY
D No: 44H0 A4

Sample ID: OK015-SD-001
Station ID: OK015

Lab ID: C073006-58
Matrix: Sediment

Date Collected: 7/18/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	mg/kg dry	0.20	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	50		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	23000		mg/kg dry	38	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	0.63	U, J, QM-1	mg/kg dry	11	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.3	J, QM-2, CLP07	mg/kg dry	1.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	260		mg/kg dry	38	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.94	U	mg/kg dry	0.94	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.94	U	mg/kg dry	0.94	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	4700	J, CLP06	mg/kg dry	940	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	47		mg/kg dry	1.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	11		mg/kg dry	9.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	500	J, CLP07	mg/kg dry	4.7	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	69000	J, CLP07	mg/kg dry	19	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	28	J, QM-2, CLP07	mg/kg dry	1.9	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	13000	J, CLP06	mg/kg dry	940	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	720		mg/kg dry	2.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	13	J, CLP07	mg/kg dry	7.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	17000	J, Q-5	mg/kg dry	940	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	1.3	U, J, Q-2, CLP03	mg/kg dry	6.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	0.093	R, Q-2, CLP04	mg/kg dry	1.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	33	U, J, Q-2, B-1	mg/kg dry	940	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	4.7	U, J, QM-1	mg/kg dry	4.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	66		mg/kg dry	9.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	170	J, CLP07	mg/kg dry	11	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H1 LIBRTY
D No: 44H1 A4

Sample ID: OK016-SD-001
Station ID: OK016
Lab ID: C073006-59
Matrix: Sediment
Date Collected: 7/18/07 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.17	U	mg/kg dry	0.17	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	56		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	11000		mg/kg dry	33	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	0.97	U, J, QM-1	mg/kg dry	9.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	8.6	J, QM-2, CLP07	mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	180		mg/kg dry	33	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.13	U, J, Q-2, CLP03	mg/kg dry	0.81	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.73	U, J, Q-2, CLP03	mg/kg dry	0.81	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	4200	J, CLP06	mg/kg dry	820	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	82		mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	48		mg/kg dry	8.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	4800	J, CLP07	mg/kg dry	4.1	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	110000	J, CLP07	mg/kg dry	33	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	370	J, QM-2, CLP07	mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	4400	J, CLP06	mg/kg dry	820	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	770		mg/kg dry	2.4	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	42	J, CLP07	mg/kg dry	6.5	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	3400	J, Q-5	mg/kg dry	820	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	7.0		mg/kg dry	5.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.7		mg/kg dry	1.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	810	U	mg/kg dry	820	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	4.1	U, J, QM-1	mg/kg dry	4.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	37		mg/kg dry	8.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	370	J, CLP07	mg/kg dry	9.8	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H2 LIBRTY
D No: 44H2 A4

Sample ID: OK016-SD-002
Station ID: OK016

Lab ID: C073006-60
Matrix: Sediment

Date Collected: 7/18/07 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.41	U	mg/kg dry	0.41	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	20		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	2900		mg/kg dry	100	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	12	U, J, Q-2, CLP03, QM-1	mg/kg dry	31	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	67	J, QM-2, CLP07	mg/kg dry	5.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	220		mg/kg dry	100	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	2.6	U	mg/kg dry	2.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	2.6	U	mg/kg dry	2.6	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	2400	J, Q-2, CLP06	mg/kg dry	2600	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	390		mg/kg dry	5.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	470		mg/kg dry	26	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	99000	J, CLP07	mg/kg dry	64	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	940000	J, CLP07	mg/kg dry	260	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	310	J, QM-2, CLP07	mg/kg dry	5.1	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	730	J, CLP06	mg/kg dry	2600	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	540		mg/kg dry	7.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	350	J, CLP07	mg/kg dry	20	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	14000	J, Q-5	mg/kg dry	2600	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	260		mg/kg dry	18	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	23		mg/kg dry	5.1	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	1200	J, Q-2	mg/kg dry	2600	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	13	U, J, QM-1	mg/kg dry	13	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	88		mg/kg dry	26	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	3200	J, CLP07	mg/kg dry	31	7/24/07	7/31/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H3 LIBRTY
D No: 44H3 A4

Sample ID: OK016-SD-003
Station ID: OK016

Lab ID: C073006-61
Matrix: Sediment

Date Collected: 7/18/07 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.17	U	mg/kg dry	0.17	7/24/07	7/26/07	CLP ILM05.4 CV
E1642941	% Solids	51		%		7/24/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	5300		mg/kg dry	39	7/24/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	12	U, J, QM-1	mg/kg dry	12	7/24/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	5.5	J, QM-2, CLP07	mg/kg dry	1.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	160		mg/kg dry	39	7/24/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.97	U	mg/kg dry	0.97	7/24/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	15		mg/kg dry	0.97	7/24/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	10000	J, CLP06	mg/kg dry	970	7/24/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	41		mg/kg dry	1.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	500		mg/kg dry	9.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	59000	J, CLP07	mg/kg dry	49	7/24/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	530000	J, CLP07	mg/kg dry	97	7/24/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	72	J, QM-2, CLP07	mg/kg dry	1.9	7/24/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	2100	J, CLP06	mg/kg dry	970	7/24/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	540		mg/kg dry	2.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	54	J, CLP07	mg/kg dry	7.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	6400	J, Q-5	mg/kg dry	970	7/24/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	83		mg/kg dry	6.8	7/24/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	15		mg/kg dry	1.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	320	J, Q-2	mg/kg dry	970	7/24/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	4.9	U, J, QM-1	mg/kg dry	4.9	7/24/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	42		mg/kg dry	9.7	7/24/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	6900	J, CLP07	mg/kg dry	58	7/24/07	7/31/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H4 LIBRTY
D No: 44H4 A4

Sample ID: OK017-SD-001
Station ID: OK017

Lab ID: C073006-62
Matrix: Sediment

Date Collected: 7/18/07 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	1.2		mg/kg dry	0.15	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	65		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	5500		mg/kg dry	28	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	8.4	U, R, QM-6, CLP14	mg/kg dry	8.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.4	U, J, CLP07	mg/kg dry	1.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	32		mg/kg dry	28	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.27	J, Q-2	mg/kg dry	0.70	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.11	U, J, Q-2, CLP03	mg/kg dry	0.70	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	210	J, Q-2, CLP06	mg/kg dry	700	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	11		mg/kg dry	1.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	5.2	U, J, CLP03, Q-2	mg/kg dry	7.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	70	J, CLP07	mg/kg dry	3.5	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	30000	J, CLP07	mg/kg dry	14	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	3.4	J, CLP07	mg/kg dry	1.4	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	1700	J, CLP06	mg/kg dry	700	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	120		mg/kg dry	2.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	6.0	J, CLP07	mg/kg dry	5.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	1500		mg/kg dry	700	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	0.75	R, Q-2, CLP04, Q-5	mg/kg dry	4.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	1.4	U	mg/kg dry	1.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	93	U, J, Q-2, B-1	mg/kg dry	700	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	3.5	U	mg/kg dry	3.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	18		mg/kg dry	7.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	28	J, QM-4, QM-6, CLP07	mg/kg dry	8.4	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H5 LIBRTY
D No: 44H5 A4

Sample ID: OK014-SD-001
Station ID: OK014

Lab ID: C073006-63
Matrix: Sediment

Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.30		mg/kg dry	0.20	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	39		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	2500		mg/kg dry	48	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	14	U, R, QM-6, CLP14	mg/kg dry	14	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.7	J, Q-2, CLP07	mg/kg dry	2.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	91		mg/kg dry	48	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.10	R, Q-2, CLP04	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	1.9		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	300	J, Q-2, CLP06	mg/kg dry	1200	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	9.7		mg/kg dry	2.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	11	U, J, Q-2, CLP03	mg/kg dry	12	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	170	J, CLP07	mg/kg dry	5.9	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	220000	J, CLP07	mg/kg dry	71	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	8.2	J, CLP07	mg/kg dry	2.4	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	480	J, Q-2, CLP06	mg/kg dry	1200	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	47		mg/kg dry	3.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	1.3	U, J, Q-2, CLP03, CLP07	mg/kg dry	9.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	3400		mg/kg dry	1200	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	12	J, Q-5	mg/kg dry	8.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	0.49	J, Q-2	mg/kg dry	2.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	170	U, J, Q-2, B-1	mg/kg dry	1200	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	5.9	U	mg/kg dry	5.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	21		mg/kg dry	12	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	30	J, QM-4, QM-6, CLP07	mg/kg dry	14	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H6 LIBRTY
D No: 44H6 A4

Sample ID: OK014-SD-001D
Station ID: OK014

Lab ID: C073006-64
Matrix: Sediment

Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.18		mg/kg dry	0.12	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	66		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	3200		mg/kg dry	30	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	9.0	U, R, QM-6, CLP14	mg/kg dry	9.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	4.0	J, CLP07	mg/kg dry	1.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	120		mg/kg dry	30	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.19	J, Q-2	mg/kg dry	0.75	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	3.6		mg/kg dry	0.75	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	850	J, CLP06	mg/kg dry	750	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	12		mg/kg dry	1.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	10		mg/kg dry	7.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	240	J, CLP07	mg/kg dry	3.8	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	270000	J, CLP07	mg/kg dry	75	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	10	J, CLP07	mg/kg dry	1.5	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	870	J, CLP06	mg/kg dry	750	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	54		mg/kg dry	2.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	1.7	U, J, Q-2, CLP03, CLP07	mg/kg dry	6.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	4800		mg/kg dry	750	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	13	J, Q-5	mg/kg dry	5.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	0.80	J, Q-2	mg/kg dry	1.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	190	U, J, Q-2, B-1	mg/kg dry	750	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	3.1	R, Q-2, CLP04	mg/kg dry	3.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	24		mg/kg dry	7.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	27	J, QM-4, QM-6, CLP07	mg/kg dry	9.0	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H8 LIBRTY
D No: 44H8 A4

Sample ID: OK425-SL-001
Station ID: OK425

Lab ID: C073006-65
Matrix: Surface Soil

Date Collected: 7/19/07 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.21	U, J, Q-2, CLP03	mg/kg dry	0.31	7/29/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	3800		mg/kg dry	61	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	18	U, R, QM-6, CLP14	mg/kg dry	18	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.1	U, J, CLP07	mg/kg dry	3.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	70		mg/kg dry	61	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.16	R, Q-2, CLP04	mg/kg dry	1.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	3.9		mg/kg dry	1.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	160	U, J, Q-2, B-1, CLP06	mg/kg dry	1500	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	17		mg/kg dry	3.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	15	U	mg/kg dry	15	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	480	J, CLP07	mg/kg dry	7.7	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	370000	J, CLP07	mg/kg dry	150	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	6.5	J, CLP07	mg/kg dry	3.1	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	570	J, Q-2, CLP06	mg/kg dry	1500	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	51		mg/kg dry	4.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	1.9	U, J, Q-2, CLP03, CLP07	mg/kg dry	12	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	1200	J, Q-2	mg/kg dry	1500	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	9.7	J, Q-2, Q-5	mg/kg dry	11	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	0.36	R, Q-2, CLP04	mg/kg dry	3.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	110	U, J, Q-2, B-1	mg/kg dry	1500	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	7.7	U	mg/kg dry	7.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	27		mg/kg dry	15	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	22	J, QM-4, QM-6, CLP07	mg/kg dry	18	7/29/07	8/10/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H8 LIBRTY
D No: 44H8 A4

Sample ID: OK425-SL-001
Station ID: OK425

Lab ID: C073006-65
Matrix: Surface Soil

Date Collected: 7/19/07 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	31		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	7.8	U	mg/kg dry	7.8	7/31/07	8/01/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J0 LIBRTY
D No: 44J0 A4

Sample ID: OK520-SL-001
Station ID: OK520

Lab ID: C073006-66
Matrix: Surface Soil

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.18		mg/kg dry	0.12	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	73		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	1400		mg/kg dry	27	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	8.0	U, R, QM-6, CLP14	mg/kg dry	8.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.3	U, J, CLP07	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	82		mg/kg dry	27	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.069	R, Q-2, CLP04	mg/kg dry	0.67	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	1.5		mg/kg dry	0.67	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	61000	J, CLP07	mg/kg dry	670	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	8.9		mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	2.4	U, J, Q-2, CLP03	mg/kg dry	6.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	170	J, CLP07	mg/kg dry	3.3	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	95000	J, CLP07	mg/kg dry	27	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	16	J, CLP07	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	170	J, Q-2, CLP06	mg/kg dry	670	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	73		mg/kg dry	2.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	5.3	U, J, CLP07	mg/kg dry	5.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	2600		mg/kg dry	670	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	10	J, Q-5	mg/kg dry	4.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	9.6	J, CLP21	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	310	J, Q-2	mg/kg dry	670	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	0.56	R, Q-2, CLP04	mg/kg dry	3.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	17		mg/kg dry	6.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	52	J, QM-4, QM-6, CLP07	mg/kg dry	8.0	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J1 LIBRTY
D No: 44J1 A4

Sample ID: OK512-SL-001
Station ID: OK512

Lab ID: C073006-67
Matrix: Surface Soil

Date Collected: 7/19/07 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.44		mg/kg dry	0.10	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	85		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	1900		mg/kg dry	23	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	6.8	U, R, QM-6, CLP14	mg/kg dry	6.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	U, J, CLP07	mg/kg dry	1.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	160		mg/kg dry	23	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.11	J, Q-2	mg/kg dry	0.57	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	4.2		mg/kg dry	0.57	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	18000		mg/kg dry	570	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	7.2		mg/kg dry	1.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	19		mg/kg dry	5.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	1400	J, CLP07	mg/kg dry	2.8	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	210000	J, CLP07	mg/kg dry	57	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	32	J, CLP07	mg/kg dry	1.1	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	460	J, Q-2, CLP06	mg/kg dry	570	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	260		mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	0.94	U, J, Q-2, CLP03	mg/kg dry	4.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	5600		mg/kg dry	570	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	10	J, Q-5	mg/kg dry	4.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	7.5		mg/kg dry	1.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	360	J, Q-2	mg/kg dry	570	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	4.1		mg/kg dry	2.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	26		mg/kg dry	5.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	200	J, QM-4, QM-6, CLP07	mg/kg dry	6.8	7/29/07	8/10/07	CLP ILM05.4 P

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980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J2 LIBRTY
D No: 44J2 A4

Sample ID: OK513-SL-001
Station ID: OK513

Lab ID: C073006-68
Matrix: Surface Soil

Date Collected: 7/19/07 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.30		mg/kg dry	0.11	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	89		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	1300		mg/kg dry	22	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	6.7	U, R, QM-6, CLP14	mg/kg dry	6.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	U, J, CLP07	mg/kg dry	1.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	120		mg/kg dry	22	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.060	J, Q-2	mg/kg dry	0.56	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	2.7		mg/kg dry	0.56	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	17000	J, CLP06	mg/kg dry	560	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	3.8		mg/kg dry	1.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	6.7		mg/kg dry	5.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	650	J, CLP07	mg/kg dry	2.8	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	150000	J, CLP07	mg/kg dry	56	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	27	J, CLP07	mg/kg dry	1.1	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	370	J, CLP06, Q-2	mg/kg dry	560	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	110		mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	0.73	U, J, Q-2, CLP03	mg/kg dry	4.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	4400		mg/kg dry	560	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	14	J, Q-5	mg/kg dry	3.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	4.7		mg/kg dry	1.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	400	J, Q-2	mg/kg dry	560	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	0.95	R, Q-2, CLP04	mg/kg dry	2.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	18		mg/kg dry	5.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	200	J, QM-4, QM-6, CLP07	mg/kg dry	6.7	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J3 LIBRTY
D No: 44J3 A4

Sample ID: OK513-SL-001D
Station ID: OK513

Lab ID: C073006-69
Matrix: Surface Soil

Date Collected: 7/19/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.60		mg/kg dry	0.11	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	87		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	2000		mg/kg dry	23	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	6.9	U, R, QM-6, CLP14	mg/kg dry	6.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.2	U, J, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	160		mg/kg dry	23	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.11	J, Q-2	mg/kg dry	0.58	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	7.0		mg/kg dry	0.58	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	38000	J, CLP06	mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	6.9		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	17		mg/kg dry	5.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	2600	J, CLP07	mg/kg dry	2.9	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	270000	J, CLP07	mg/kg dry	120	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	47	J, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	360	J, Q-2, CLP06	mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	280		mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	1.3	U, J, Q-2, CLP03	mg/kg dry	4.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	3700		mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	22	J, Q-5	mg/kg dry	4.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	9.4		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	300	J, Q-2	mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	8.6		mg/kg dry	2.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	31		mg/kg dry	5.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	410	J, QM-4, QM-6, CLP07	mg/kg dry	6.9	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J4 LIBRTY
D No: 44J4 A4

Sample ID: OK514-SL-001
Station ID: OK514

Lab ID: C073006-70
Matrix: Surface Soil

Date Collected: 7/19/07 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.21		mg/kg dry	0.12	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	82		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	41000		mg/kg dry	24	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	7.3	U, R, QM-6, CLP14	mg/kg dry	7.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.77	R, Q-2, CLP04, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	240		mg/kg dry	24	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	1.1		mg/kg dry	0.61	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	3.3		mg/kg dry	0.61	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	300	J, CLP06	mg/kg dry	610	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	44		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	28		mg/kg dry	6.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	2600	J, CLP07	mg/kg dry	3.0	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	170000	J, CLP07	mg/kg dry	61	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	25	J, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	7500	J, CLP06	mg/kg dry	610	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	480		mg/kg dry	1.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	14	J, CLP07	mg/kg dry	4.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	8400		mg/kg dry	610	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	9.9	J, Q-5	mg/kg dry	4.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	3.5		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	610	U	mg/kg dry	610	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	0.45	R, Q-2, CLP04	mg/kg dry	3.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	68		mg/kg dry	6.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	210	J, QM-4, QM-6, CLP07	mg/kg dry	7.3	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J5 LIBRTY
D No: 44J5 A4

Sample ID: OK501-SL-001
Station ID: OK501

Lab ID: C073006-71
Matrix: Surface Soil

Date Collected: 7/19/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U, J, Q-2, CLP03	mg/kg dry	0.12	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	78		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	19000		mg/kg dry	25	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	7.6	U, R, QM-6, CLP14	mg/kg dry	7.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.80	R, Q-2, CLP04	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	75		mg/kg dry	25	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	1.2		mg/kg dry	0.64	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.64	U, J, Q-2, CLP03	mg/kg dry	0.64	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	130	U, J, Q-2, B-1, CLP06	mg/kg dry	640	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	16		mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	10		mg/kg dry	6.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	34	J, CLP07	mg/kg dry	3.2	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	18000	J, CLP07	mg/kg dry	13	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	12	J, CLP07	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	2600	J, CLP06	mg/kg dry	640	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	420		mg/kg dry	1.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	7.0	J, CLP07	mg/kg dry	5.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	1300		mg/kg dry	640	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	4.4	U, J, Q-5	mg/kg dry	4.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	1.3	U	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	640	U	mg/kg dry	640	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	3.2	U	mg/kg dry	3.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	23		mg/kg dry	6.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	51	J, QM-4, QM-6, CLP07	mg/kg dry	7.6	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J6 LIBRTY
D No:

Sample ID: OK550-WA-001
Station ID: OK550

Lab ID: C073006-72
Matrix: Surface Soil

Date Collected: 7/19/07 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.15		mg/kg dry	0.12	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	82		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	16000		mg/kg dry	23	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	7.0	U, R, QM-6, CLP14	mg/kg dry	7.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.48	R, Q-2, CLP04	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	58		mg/kg dry	23	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.62		mg/kg dry	0.58	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.20	U, J, Q-2, CLP03	mg/kg dry	0.58	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	180	J, Q-2, CLP06	mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	14		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	11		mg/kg dry	5.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	270	J, CLP07	mg/kg dry	2.9	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	21000	J, CLP07	mg/kg dry	12	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	12	J, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	1900	J, CLP06	mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	400		mg/kg dry	1.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	8.1	J, CLP07	mg/kg dry	4.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	980		mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	4.1	U, J, Q-5	mg/kg dry	4.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	580	U	mg/kg dry	580	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U	mg/kg dry	2.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	18		mg/kg dry	5.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	47	J, QM-4, QM-6, CLP07	mg/kg dry	7.0	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J7 LIBRTY
D No: 44J7 A4

Sample ID: OK511-SL-001
Station ID: OK511

Lab ID: C073006-73
Matrix: Surface Soil

Date Collected: 7/19/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.50		mg/kg dry	0.31	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	26		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	82000		mg/kg dry	72	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	21	U, R, QM-6, CLP14	mg/kg dry	22	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.0	R, Q-2, CLP04, CLP07	mg/kg dry	3.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	270		mg/kg dry	72	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	1.9		mg/kg dry	1.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.86	U, J, Q-2, CLP03	mg/kg dry	1.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	600	J, CLP06, Q-2	mg/kg dry	1800	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	77		mg/kg dry	3.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	28		mg/kg dry	18	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	490	J, CLP07	mg/kg dry	9.0	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	91000	J, CLP07	mg/kg dry	36	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	23	J, CLP07	mg/kg dry	3.6	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	11000	J, CLP06	mg/kg dry	1800	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	780		mg/kg dry	5.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	30	J, CLP07	mg/kg dry	14	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	9200		mg/kg dry	1800	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	13	U, J, Q-5	mg/kg dry	12	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	3.6	U	mg/kg dry	3.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	1800	U	mg/kg dry	1800	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	9.0	U	mg/kg dry	9.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	130		mg/kg dry	18	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	220	J, QM-4, QM-6, CLP07	mg/kg dry	22	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J8 LIBRTY
D No: 44J8 A4

Sample ID: OK424-SL-001
Station ID: OK424

Lab ID: C073006-74
Matrix: Surface Soil

Date Collected: 7/19/07 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.13		mg/kg dry	0.11	7/29/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	6500		mg/kg dry	25	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	7.5	U, R, QM-6, CLP14	mg/kg dry	7.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.54	J, Q-2, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	67		mg/kg dry	25	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.25	J, Q-2	mg/kg dry	0.62	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.60	U, J, Q-2, CLP03	mg/kg dry	0.62	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	1700		mg/kg dry	620	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	14		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	13		mg/kg dry	6.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	1300	J, CLP07	mg/kg dry	3.1	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	38000	J, CLP07	mg/kg dry	12	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	9.9	J, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	1900	J, CLP06	mg/kg dry	620	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	810		mg/kg dry	1.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	6.3	J, CLP07	mg/kg dry	5.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	2100		mg/kg dry	620	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	2.4	J, Q-2, Q-5	mg/kg dry	4.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	0.33	R, Q-2, CLP04	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	620	U	mg/kg dry	620	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	3.1	U	mg/kg dry	3.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	19		mg/kg dry	6.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	110	J, QM-4, QM-6, CLP07	mg/kg dry	7.5	7/29/07	8/10/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J8 LIBRTY
D No: 44J8 A4

Sample ID: OK424-SL-001
Station ID: OK424

Lab ID: C073006-74
Matrix: Surface Soil

Date Collected: 7/19/07 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	3.2	U	mg/kg dry	3.2	7/31/07	8/01/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J9 LIBRTY
D No: 44J9 A4

Sample ID: OK422-SL-001
Station ID: OK422

Lab ID: C073006-75
Matrix: Surface Soil

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.31		mg/kg dry	0.13	7/29/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	780		mg/kg dry	26	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	7.9	U, R, QM-6, CLP14	mg/kg dry	7.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.2	J, CLP07, CLP21	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	70		mg/kg dry	26	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.034	R, Q-2, CLP04	mg/kg dry	0.66	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.64	U, J, Q-2, CLP03	mg/kg dry	0.66	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	170	J, Q-2, CLP06	mg/kg dry	660	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	5.2		mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.7	U, J, Q-2, CLP03	mg/kg dry	6.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	56	J, CLP07	mg/kg dry	3.3	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	55000	J, CLP07	mg/kg dry	13	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	6.3	J, CLP07	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	180	J, Q-2, CLP06	mg/kg dry	660	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	68		mg/kg dry	2.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	2.1	U, J, Q-2, CLP03, CLP07	mg/kg dry	5.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	2800		mg/kg dry	660	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	14	J, Q-5	mg/kg dry	4.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	0.48	J, Q-2	mg/kg dry	1.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	330	J, Q-2	mg/kg dry	660	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	3.3	U	mg/kg dry	3.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	19		mg/kg dry	6.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	69	J, QM-6, CLP07, QM-4	mg/kg dry	7.9	7/29/07	8/10/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J9 LIBRTY
D No: 44J9 A4

Sample ID: OK422-SL-001
Station ID: OK422

Lab ID: C073006-75
Matrix: Surface Soil

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	73		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	0.36	U, J, Q-2, CLP01	mg/kg dry	3.3	7/31/07	8/01/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44K0 LIBRTY
D No: 44K0 A4

Sample ID: OK001-SD-001
Station ID: OK001

Lab ID: C073006-76
Matrix: Sediment

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.16		mg/kg dry	0.13	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	76		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	49000		mg/kg dry	24	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	7.3	U, R, QM-6, CLP14	mg/kg dry	7.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.2	R, Q-2, CLP04, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	150		mg/kg dry	24	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	1.1		mg/kg dry	0.60	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.70		mg/kg dry	0.60	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	320	J, Q-2, CLP06	mg/kg dry	600	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	43		mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	17		mg/kg dry	6.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	310	J, CLP07	mg/kg dry	3.0	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	51000	J, CLP07	mg/kg dry	12	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	13	J, CLP07	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	5900	J, CLP06	mg/kg dry	600	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	450		mg/kg dry	1.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	17	J, CLP07	mg/kg dry	4.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	5000		mg/kg dry	600	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	4.2	U, J, Q-5	mg/kg dry	4.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	81	U, J, Q-2, B-1	mg/kg dry	600	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U	mg/kg dry	3.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	69		mg/kg dry	6.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	110	J, QM-4, QM-6, CLP07	mg/kg dry	7.3	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44K1 LIBRTY
D No: 44K1 A4

Sample ID: OK002-SD-001
Station ID: OK002

Lab ID: C073006-77
Matrix: Sediment

Date Collected: 7/19/07 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.25		mg/kg dry	0.17	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	58		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	23000		mg/kg dry	32	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	9.5	U, R, QM-6, CLP14	mg/kg dry	9.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.6	J, CLP07	mg/kg dry	1.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	220		mg/kg dry	32	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	2.2		mg/kg dry	0.79	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	6.7		mg/kg dry	0.79	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	3100	J, CLP06	mg/kg dry	790	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	44		mg/kg dry	1.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	140		mg/kg dry	7.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	4200	J, CLP07	mg/kg dry	3.9	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	330000	J, CLP07	mg/kg dry	160	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	23	J, CLP07	mg/kg dry	1.6	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	6200	J, CLP06	mg/kg dry	790	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	820		mg/kg dry	2.4	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	19	J, CLP07	mg/kg dry	6.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	7300		mg/kg dry	790	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	15	J, Q-5	mg/kg dry	5.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	1.6		mg/kg dry	1.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	76	U, J, Q-2, B-1	mg/kg dry	790	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	4.4		mg/kg dry	3.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	64		mg/kg dry	7.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	1000	J, QM-4, QM-6, CLP07	mg/kg dry	9.5	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L0 LIBRTY
D No: 44L0 A4

Sample ID: OK013-SD-001
Station ID: OK013

Lab ID: C073006-78
Matrix: Sediment

Date Collected: 7/19/07 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.40		mg/kg dry	0.18	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	57		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	2700		mg/kg dry	33	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	9.9	U, R, QM-6, CLP04	mg/kg dry	9.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.8	J, CLP07	mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	140		mg/kg dry	33	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.070	J, Q-2	mg/kg dry	0.83	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	1.7		mg/kg dry	0.83	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	500	J, Q-2, CLP06	mg/kg dry	830	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	17		mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	20		mg/kg dry	8.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	580	J, CLP07	mg/kg dry	4.1	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	120000	J, CLP07	mg/kg dry	50	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	10	J, CLP07	mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	1000	J, CLP06	mg/kg dry	830	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	76		mg/kg dry	2.5	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	2.0	U, J, Q-2, CLP03, CLP07	mg/kg dry	6.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	4700		mg/kg dry	830	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	21	J, Q-5	mg/kg dry	5.8	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	0.99	J, Q-2	mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	600	J, Q-2	mg/kg dry	830	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	4.1	U	mg/kg dry	4.1	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	31		mg/kg dry	8.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	100	J, QM-6, CLP07, QM-4	mg/kg dry	9.9	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L1 LIBRTY
D No: 44L1 A4

Sample ID: OK013-SD-001D
Station ID: OK013

Lab ID: C073006-79
Matrix: Sediment

Date Collected: 7/19/07 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.58		mg/kg dry	0.14	7/29/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	57		%		7/29/07	8/10/07	CLP Inorganics
7429-90-5	Aluminum	2100		mg/kg dry	34	7/29/07	8/10/07	CLP ILM05.4 P
7440-36-0	Antimony	10	U, R, QM-6, CLP14	mg/kg dry	10	7/29/07	8/10/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.5	J, Q-2, CLP07	mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-39-3	Barium	110		mg/kg dry	34	7/29/07	8/10/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.048	J, Q-2	mg/kg dry	0.86	7/29/07	8/10/07	CLP ILM05.4 P
7440-43-9	Cadmium	2.2		mg/kg dry	0.86	7/29/07	8/10/07	CLP ILM05.4 P
7440-70-2	Calcium	460	J, Q-2, CLP06	mg/kg dry	860	7/29/07	8/10/07	CLP ILM05.4 P
7440-47-3	Chromium	14		mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-48-4	Cobalt	17		mg/kg dry	8.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-50-8	Copper	520	J, CLP07	mg/kg dry	4.3	7/29/07	8/10/07	CLP ILM05.4 P
7439-89-6	Iron	140000	J, CLP07	mg/kg dry	52	7/29/07	8/10/07	CLP ILM05.4 P
7439-92-1	Lead	7.5	J, CLP07	mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7439-95-4	Magnesium	790	J, Q-2, CLP06	mg/kg dry	860	7/29/07	8/10/07	CLP ILM05.4 P
7439-96-5	Manganese	59		mg/kg dry	2.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-02-0	Nickel	1.5	U, J, Q-2, CLP03, CLP07	mg/kg dry	6.9	7/29/07	8/10/07	CLP ILM05.4 P
7440-09-7	Potassium	3600		mg/kg dry	860	7/29/07	8/10/07	CLP ILM05.4 P
7782-49-2	Selenium	17	J, Q-5	mg/kg dry	6.0	7/29/07	8/10/07	CLP ILM05.4 P
7440-22-4	Silver	0.81	J, Q-2	mg/kg dry	1.7	7/29/07	8/10/07	CLP ILM05.4 P
7440-23-5	Sodium	170	U, J, Q-2, B-1	mg/kg dry	860	7/29/07	8/10/07	CLP ILM05.4 P
7440-28-0	Thallium	4.3	U	mg/kg dry	4.3	7/29/07	8/10/07	CLP ILM05.4 P
7440-62-2	Vanadium	27		mg/kg dry	8.6	7/29/07	8/10/07	CLP ILM05.4 P
7440-66-6	Zinc	80	J, QM-4, QM-6, CLP07	mg/kg dry	10	7/29/07	8/10/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L2 LIBRTY
D No: 44L2 A4

Sample ID: OK027-SD-001
Station ID: OK027

Lab ID: C073006-80
Matrix: Sediment

Date Collected: 7/19/07 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.29		mg/kg dry	0.12	7/30/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	84		%		7/30/07	7/31/07	CLP Inorganics
7429-90-5	Aluminum	6300	J, Q-5	mg/kg dry	24	7/30/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	0.22	U, J, QM-1	mg/kg dry	7.1	7/30/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.9	J, CLP07	mg/kg dry	1.2	7/30/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	120	J, Q-5	mg/kg dry	24	7/30/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.081	U, J, Q-2, CLP03	mg/kg dry	0.59	7/30/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.59	U	mg/kg dry	0.59	7/30/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	180	J, Q-5, CLP07	mg/kg dry	590	7/30/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	26	J, Q-5	mg/kg dry	1.2	7/30/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	2.8	U, J, Q-2, CLP03	mg/kg dry	5.9	7/30/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	570	J, Q-5, QM-4, CLP07	mg/kg dry	2.9	7/30/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	130000	J, Q-5, CLP07	mg/kg dry	35	7/30/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	16	J, CLP07	mg/kg dry	1.2	7/30/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	2200	J, Q-5, CLP06	mg/kg dry	590	7/30/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	200	J, Q-5	mg/kg dry	1.8	7/30/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	11	J, Q-5, CLP07	mg/kg dry	4.7	7/30/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	6500	J, Q-5	mg/kg dry	590	7/30/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	11	J, QM-1, Q-5	mg/kg dry	4.1	7/30/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.3	J, Q-2	mg/kg dry	1.2	7/30/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	320	J, Q-2	mg/kg dry	590	7/30/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U	mg/kg dry	2.9	7/30/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	36	J, Q-5	mg/kg dry	5.9	7/30/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	35	J, Q-5, QM-4, CLP07	mg/kg dry	7.1	7/30/07	7/31/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L3 LIBRTY
D No: 44L3 A4

Sample ID: OK207-SD-001
Station ID: OK207

Lab ID: C073006-81
Matrix: Sediment

Date Collected: 7/19/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.18		mg/kg dry	0.15	7/30/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	1900	J, Q-5	mg/kg dry	29	7/30/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	8.8	U, J, QM-1	mg/kg dry	8.8	7/30/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.8	J, CLP07	mg/kg dry	1.5	7/30/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	91	J, Q-5	mg/kg dry	29	7/30/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.73	U	mg/kg dry	0.73	7/30/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.73	U	mg/kg dry	0.73	7/30/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	500	J, Q-2, Q-5, CLP06	mg/kg dry	730	7/30/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	11	J, Q-5	mg/kg dry	1.5	7/30/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	72	J, Q-5, QM-1	mg/kg dry	7.3	7/30/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	640	J, Q-5, QM-4, CLP07	mg/kg dry	3.6	7/30/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	62000	J, Q-5, CLP07	mg/kg dry	15	7/30/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	8.6	J, CLP07	mg/kg dry	1.5	7/30/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	550	J, Q-5, CLP06	mg/kg dry	730	7/30/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	93	J, Q-5	mg/kg dry	2.2	7/30/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	3.0	U, J, Q-2, CLP03, Q-5,	mg/kg dry	5.8	7/30/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	1800	J, Q-5	mg/kg dry	730	7/30/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	20	J, Q-5, QM-1	mg/kg dry	5.1	7/30/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	0.79	J, Q-2	mg/kg dry	1.5	7/30/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	91	U, J, B-1, Q-2	mg/kg dry	730	7/30/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	3.6	U	mg/kg dry	3.6	7/30/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	22	J, Q-5	mg/kg dry	7.3	7/30/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	120	J, Q-5, QM-4, CLP07	mg/kg dry	8.8	7/30/07	7/31/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L3 LIBRTY
D No: 44L3 A4

Sample ID: OK207-SD-001
Station ID: OK207

Lab ID: C073006-81
Matrix: Sediment

Date Collected: 7/19/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	68		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	3.6	U	mg/kg dry	3.6	7/31/07	8/01/07	CLP ILM05.4 AS

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L4 LIBRTY
D No: 44L4 A4

Sample ID: OK207-SD-001D
Station ID: OK207

Lab ID: C073006-82
Matrix: Sediment

Date Collected: 7/19/07 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.24		mg/kg dry	0.13	7/30/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	1900	J, Q-5	mg/kg dry	25	7/30/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	7.4	U, J, QM-1	mg/kg dry	7.4	7/30/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.3	J, CLP07	mg/kg dry	1.2	7/30/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	96	J, Q-5	mg/kg dry	25	7/30/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.62	U	mg/kg dry	0.62	7/30/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.62	U	mg/kg dry	0.62	7/30/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	430	J, Q-5, CLP06	mg/kg dry	620	7/30/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	13	J, Q-5	mg/kg dry	1.2	7/30/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	44	J, Q-5, QM-1	mg/kg dry	6.2	7/30/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	480	J, Q-5, QM-4, CLP07	mg/kg dry	3.1	7/30/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	68000	J, Q-5, CLP07	mg/kg dry	12	7/30/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	8.3	J, CLP07	mg/kg dry	1.2	7/30/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	540	J, CLP07, Q-2, Q-5	mg/kg dry	620	7/30/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	85	J, Q-5	mg/kg dry	1.9	7/30/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	2.3	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.9	7/30/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	1500	J, Q-5	mg/kg dry	620	7/30/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	20	J, Q-5, QM-1	mg/kg dry	4.3	7/30/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	0.87	J, Q-2	mg/kg dry	1.2	7/30/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	58	U, J, Q-2, B-1	mg/kg dry	620	7/30/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	3.1	U	mg/kg dry	3.1	7/30/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	38	J, Q-5	mg/kg dry	6.2	7/30/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	70	J, Q-5, QM-4, CLP07	mg/kg dry	7.4	7/30/07	7/31/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L4 LIBRTY
D No: 44L4 A4

Sample ID: OK207-SD-001D
Station ID: OK207

Lab ID: C073006-82
Matrix: Sediment

Date Collected: 7/19/07 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	3.3	U	mg/kg dry	3.3	7/31/07	8/01/07	CLP ILM05.4 AS

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L5 LIBRTY
D No: 44L5 A4

Sample ID: OK407-SD-001
Station ID: OK407

Lab ID: C073006-83
Matrix: Sediment

Date Collected: 7/19/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.085	U, J, Q-2, CLP03	mg/kg dry	0.12	7/30/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	13000	J, Q-5	mg/kg dry	28	7/30/07	7/31/07	CLP ILM05.4 P
7440-36-0	Antimony	0.40	U, J, QM-1	mg/kg dry	8.5	7/30/07	7/31/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.2	U, J, Q-2, CLP03, CLP07	mg/kg dry	1.4	7/30/07	7/31/07	CLP ILM05.4 P
7440-39-3	Barium	71	J, Q-5	mg/kg dry	28	7/30/07	7/31/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.26	U, J, Q-2, CLP03	mg/kg dry	0.71	7/30/07	7/31/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.71	U	mg/kg dry	0.71	7/30/07	7/31/07	CLP ILM05.4 P
7440-70-2	Calcium	1800	J, Q-5, CLP06	mg/kg dry	710	7/30/07	7/31/07	CLP ILM05.4 P
7440-47-3	Chromium	17	J, Q-5	mg/kg dry	1.4	7/30/07	7/31/07	CLP ILM05.4 P
7440-48-4	Cobalt	7.7	J, Q-5, QM-4	mg/kg dry	7.1	7/30/07	7/31/07	CLP ILM05.4 P
7440-50-8	Copper	170	J, Q-5, QM-4, CLP07	mg/kg dry	3.5	7/30/07	7/31/07	CLP ILM05.4 P
7439-89-6	Iron	19000	J, Q-5, CLP07	mg/kg dry	14	7/30/07	7/31/07	CLP ILM05.4 P
7439-92-1	Lead	15	J, CLP07	mg/kg dry	1.4	7/30/07	7/31/07	CLP ILM05.4 P
7439-95-4	Magnesium	2700	J, Q-5, CLP06	mg/kg dry	710	7/30/07	7/31/07	CLP ILM05.4 P
7439-96-5	Manganese	320	J, Q-5	mg/kg dry	2.1	7/30/07	7/31/07	CLP ILM05.4 P
7440-02-0	Nickel	10	J, Q-5, CLP07	mg/kg dry	5.7	7/30/07	7/31/07	CLP ILM05.4 P
7440-09-7	Potassium	1900	J, Q-5	mg/kg dry	710	7/30/07	7/31/07	CLP ILM05.4 P
7782-49-2	Selenium	0.32	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.9	7/30/07	7/31/07	CLP ILM05.4 P
7440-22-4	Silver	1.4	U	mg/kg dry	1.4	7/30/07	7/31/07	CLP ILM05.4 P
7440-23-5	Sodium	96	U, J, Q-2, B-1	mg/kg dry	710	7/30/07	7/31/07	CLP ILM05.4 P
7440-28-0	Thallium	3.5	U	mg/kg dry	3.5	7/30/07	7/31/07	CLP ILM05.4 P
7440-62-2	Vanadium	29	J, Q-5	mg/kg dry	7.1	7/30/07	7/31/07	CLP ILM05.4 P
7440-66-6	Zinc	62	J, Q-5, QM-4, CLP07	mg/kg dry	8.5	7/30/07	7/31/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L5 LIBRTY
D No: 44L5 A4

Sample ID: OK407-SD-001
Station ID: OK407

Lab ID: C073006-83
Matrix: Sediment

Date Collected: 7/19/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	67		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	3.7	U	mg/kg dry	3.7	7/31/07	8/01/07	CLP ILM05.4 AS

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L6 LIBRTY
D No: 44L6 A4

Sample ID: OK421-SD-001
Station ID: OK421
Lab ID: C073006-84
Matrix: Sediment
Date Collected: 7/19/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.062	U, J, Q-2, CLP06	mg/kg dry	0.13	7/30/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	4200	J, Q-5	mg/kg dry	30	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	1.1	U, J, QM-1	mg/kg dry	9.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.5	U, J, CLP07	mg/kg dry	1.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	41	J, Q-5	mg/kg dry	30	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.089	U, J, Q-2, CLP03	mg/kg dry	0.76	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.76	U	mg/kg dry	0.76	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	540	J, Q-2, Q-5, CLP06	mg/kg dry	760	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	16	J, Q-5	mg/kg dry	1.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	7.5	U, J, Q-2, CLP03, Q-5,	mg/kg dry	7.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	650	J, Q-5, QM-4, CLP07	mg/kg dry	3.8	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	16000	J, Q-5, CLP07	mg/kg dry	15	7/30/07	8/01/07	CLP ILM05.4 P
7439-92-1	Lead	5.8	J, CLP07	mg/kg dry	1.5	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	1700	J, Q-5, CLP06	mg/kg dry	760	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	150	J, Q-5	mg/kg dry	2.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	3.3	U, J, Q-2, CLP03, Q-5,	mg/kg dry	6.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	1800	J, Q-2	mg/kg dry	760	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	1.9	U, J, Q-2, CLP03, Q-5,	mg/kg dry	5.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	0.084	R, Q-2, CLP04	mg/kg dry	1.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	63	U, J, Q-2, B-1	mg/kg dry	760	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	3.8	U	mg/kg dry	3.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	15	J, Q-5	mg/kg dry	7.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	33	J, Q-5, QM-4, CLP07	mg/kg dry	9.2	7/30/07	8/01/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L6 LIBRTY
D No: 44L6 A4

Sample ID: OK421-SD-001
Station ID: OK421

Lab ID: C073006-84
Matrix: Sediment

Date Collected: 7/19/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	65		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	3.8	U	mg/kg dry	3.8	7/31/07	8/01/07	CLP ILM05.4 AS

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L9 LIBRTY
D No: 44L9 A4

Sample ID: OK025-SD-001
Station ID: OK025

Lab ID: C073006-85

Matrix: Sediment

Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.056	U, J, Q-2, CLP03	mg/kg dry	0.11	7/30/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	2500	J, Q-5	mg/kg dry	26	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	7.9	U, J, QM-1	mg/kg dry	7.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.3	U, J, CLP07	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	59	J, Q-5	mg/kg dry	26	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.20	U, J, Q-2, CLP03	mg/kg dry	0.65	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.65	U	mg/kg dry	0.65	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	310	J, Q-2, Q-5, CLP06	mg/kg dry	650	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	12	J, Q-5	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	5.2	U, J, Q-2, CLP03, Q-5,	mg/kg dry	6.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	600	J, QM-4, CLP07, Q-5	mg/kg dry	3.3	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	43000	J, Q-5, CLP07	mg/kg dry	13	7/30/07	8/01/07	CLP ILM05.4 P
7439-92-1	Lead	3.4	J, CLP07	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	1000	J, Q-5, CLP06	mg/kg dry	650	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	150	J, Q-5	mg/kg dry	2.0	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	2.1	U, J, Q-2, CLP03, Q-5,	mg/kg dry	5.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	1700	J, Q-5	mg/kg dry	650	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	1.7	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	0.078	R, Q-2, CLP04	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	58	U, J, Q-2, B-1	mg/kg dry	650	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	3.3	U	mg/kg dry	3.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	15	J, Q-5	mg/kg dry	6.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	43	J, Q-5, QM-4, CLP07	mg/kg dry	7.9	7/30/07	8/01/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L9 LIBRTY
D No: 44L9 A4

Sample ID: OK025-SD-001
Station ID: OK025

Lab ID: C073006-85
Matrix: Sediment

Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	3.2	U	mg/kg dry	3.2	7/31/07	8/01/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M0 LIBRTY
D No: 44M0 A4

Sample ID: OK426-SL-001
Station ID: OK426

Lab ID: C073006-86
Matrix: Surface Soil

Date Collected: 7/19/07 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.26	U, J, Q-2, CLP03	mg/kg dry	0.43	7/30/07	8/01/07	CLP ILM05.4 CV
7429-90-5	Aluminum	7900	J, Q-5	mg/kg dry	92	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	27	U, J, QM-1	mg/kg dry	28	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	4.6	U, J, CLP07	mg/kg dry	4.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	120	J, Q-5	mg/kg dry	92	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.12	U, J, Q-2, CLP03	mg/kg dry	2.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	2.3	U	mg/kg dry	2.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	450	J, Q-2, Q-5, CLP06	mg/kg dry	2300	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	29	J, Q-5	mg/kg dry	4.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	15	U, J, Q-2, CLP03, Q-5,	mg/kg dry	23	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	900	J, Q-5, QM-4, CLP07	mg/kg dry	11	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	410000	J, Q-5, CLP07	mg/kg dry	92	7/30/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	8.4	J, CLP07	mg/kg dry	4.6	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	1000	J, Q-2, CLP06	mg/kg dry	2300	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	150	J, Q-5	mg/kg dry	6.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	3.8	U, J, Q-2, CLP03, Q-5,	mg/kg dry	18	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	2800	J, Q-5	mg/kg dry	2300	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	19	J, Q-5, QM-1	mg/kg dry	16	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	0.93	J, Q-2	mg/kg dry	4.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	94	U, J, B-1, Q-2	mg/kg dry	2300	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	11	U	mg/kg dry	11	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	70	J, Q-5	mg/kg dry	23	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	81	J, Q-5, QM-4, CLP07	mg/kg dry	28	7/30/07	8/01/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M0 LIBRTY
D No: 44M0 A4

Sample ID: OK426-SL-001
Station ID: OK426

Lab ID: C073006-86
Matrix: Surface Soil

Date Collected: 7/19/07 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	21		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	0.88	U, J, Q-2, CLP01	mg/kg dry	12	7/31/07	8/01/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M1 LIBRTY
D No: 44M1 A4

Sample ID: OK517-SL-001
Station ID: OK517

Lab ID: C073006-87
Matrix: Surface Soil

Date Collected: 7/19/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.064	U, J, Q-2, CLP03	mg/kg dry	0.11	7/30/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	86		%		7/30/07	8/01/07	CLP Inorganics
7429-90-5	Aluminum	13000	J, Q-5	mg/kg dry	23	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	0.34	U, J, QM-1, Q-2, CLP03	mg/kg dry	6.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	0.90	U, J, Q-2, CLP03, CLP07	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	47	J, Q-5	mg/kg dry	23	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.29	U, J, Q-2, CLP03	mg/kg dry	0.58	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.58	U	mg/kg dry	0.58	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	130	J, Q-5, CLP06, Q-2	mg/kg dry	580	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	18	J, Q-5	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.1	U, J, Q-2, CLP03, Q-5,	mg/kg dry	5.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	86	J, Q-5, QM-4, CLP07	mg/kg dry	2.9	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	36000	J, Q-5, CLP07	mg/kg dry	12	7/30/07	8/01/07	CLP ILM05.4 P
7439-92-1	Lead	8.1	J, CLP07	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	1800	J, Q-5, CLP06	mg/kg dry	580	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	97	J, Q-5	mg/kg dry	1.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	6.1	J, Q-5, CLP07	mg/kg dry	4.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	2100	J, Q-5	mg/kg dry	580	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	1.1	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.0	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	580	U	mg/kg dry	580	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U	mg/kg dry	2.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	30	J, Q-5	mg/kg dry	5.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	44	J, Q-5, QM-4, CLP07	mg/kg dry	6.9	7/30/07	8/01/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M2 LIBRTY
D No: 44M2 A4

Sample ID: OK517-SL-001D
Station ID: OK517

Lab ID: C073006-88
Matrix: Surface Soil

Date Collected: 7/19/07 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.060	U, J, Q-2, CLP03	mg/kg dry	0.12	7/30/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	84		%		7/30/07	8/01/07	CLP Inorganics
7429-90-5	Aluminum	12000	J, Q-5	mg/kg dry	22	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	6.7	U, J, QM-1	mg/kg dry	6.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	U, J, CLP07	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	56	J, Q-5	mg/kg dry	22	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.26	U, J, Q-2, CLP03	mg/kg dry	0.56	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.56	U	mg/kg dry	0.56	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	87	J, Q-2, Q-5, CLP06	mg/kg dry	560	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	15	J, Q-5	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.3	U, J, Q-2, CLP03, Q-5,	mg/kg dry	5.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	90	J, Q-5, QM-4, CLP07	mg/kg dry	2.8	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	37000	J, Q-5, CLP07	mg/kg dry	11	7/30/07	8/01/07	CLP ILM05.4 P
7439-92-1	Lead	8.4	J, CLP07	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	1600	J, Q-5, CLP07	mg/kg dry	560	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	120	J, Q-5	mg/kg dry	1.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	5.3	J, Q-5, CLP07	mg/kg dry	4.4	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	1900	J, Q-5	mg/kg dry	560	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	1.7	U, J, Q-2, CLP03, Q-5,	mg/kg dry	3.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	1.1	U	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	560	U	mg/kg dry	560	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U	mg/kg dry	2.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	28	J, Q-5	mg/kg dry	5.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	48	J, Q-5, QM-4, CLP07	mg/kg dry	6.7	7/30/07	8/01/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M3 LIBRTY
D No: 44M3 A4

Sample ID: OK519-SL-001
Station ID: OK519

Lab ID: C073006-89
Matrix: Surface Soil

Date Collected: 7/19/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.15		mg/kg dry	0.12	7/30/07	8/01/07	CLP ILM05.4 CV
E1642941	% Solids	80		%		7/30/07	8/01/07	CLP Inorganics
7429-90-5	Aluminum	16000	J, Q-5	mg/kg dry	24	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	7.1	U, J, QM-1	mg/kg dry	7.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.4	J, CLP06, CLP21	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	26	J, Q-5	mg/kg dry	24	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.40	U, J, Q-2, CLP03	mg/kg dry	0.59	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.59	U	mg/kg dry	0.59	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	61	U, J, Q-2, B-1, Q-5, CLP06	mg/kg dry	590	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	21	J, Q-5	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	6.5	J, Q-5, QM-4	mg/kg dry	5.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	120	J, Q-5, QM-4, CLP07	mg/kg dry	3.0	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	36000	J, Q-5, CLP07	mg/kg dry	12	7/30/07	8/01/07	CLP ILM05.4 P
7439-92-1	Lead	17	J, CLP07	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	1700	J, Q-5, CLP06	mg/kg dry	590	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	200	J, Q-5	mg/kg dry	1.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	5.0	J, Q-5, CLP07	mg/kg dry	4.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	2000	J, Q-5	mg/kg dry	590	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	0.30	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	590	U	mg/kg dry	590	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	3.0	U	mg/kg dry	3.0	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	42	J, Q-5	mg/kg dry	5.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	32	J, Q-5, QM-4, CLP07	mg/kg dry	7.1	7/30/07	8/01/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M4 LIBRTY
D No: 44M4 A4

Sample ID: OK556-WA-001
Station ID: OK556

Lab ID: C073006-90
Matrix: Surface Soil

Date Collected: 7/19/07 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U	mg/kg dry	0.11	8/04/07	8/06/07	CLP ILM05.4 CV
E1642941	% Solids	88		%		7/30/07	8/01/07	CLP Inorganics
7429-90-5	Aluminum	4700	J, Q-5	mg/kg dry	23	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	6.8	U, J, QM-1	mg/kg dry	6.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	1.1	U, J, CLP07	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	310	J, Q-5	mg/kg dry	23	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.57	U	mg/kg dry	0.56	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.57	U	mg/kg dry	0.56	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	120	J, Q-2, Q-5, CLP06	mg/kg dry	560	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	32	J, Q-5	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	7.5	J, Q-5, QM-4	mg/kg dry	5.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	2000	J, Q-5, QM-4, CLP07	mg/kg dry	2.8	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	210000	J, Q-5, CLP07	mg/kg dry	110	7/30/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	26	J, CLP07	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	2500	J, Q-5, CLP06	mg/kg dry	560	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	200	J, Q-5	mg/kg dry	1.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	1.9	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	10000	J, Q-5	mg/kg dry	560	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	37	J, Q-5, QM-1	mg/kg dry	4.0	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	4.8		mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	940		mg/kg dry	560	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U	mg/kg dry	2.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	55	J, Q-5	mg/kg dry	5.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	270	J, Q-5, QM-4, CLP07	mg/kg dry	6.8	7/30/07	8/01/07	CLP ILM05.4 P

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980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M5 LIBRTY
D No: 44M5 A4

Sample ID: OK500-SL-001
Station ID: OK500

Lab ID: C073006-91
Matrix: Surface Soil

Date Collected: 7/19/07 17:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.050	U, J, Q-2, CLP03	mg/kg dry	0.098	8/04/07	8/06/07	CLP ILM05.4 CV
E1642941	% Solids	81		%		7/30/07	8/01/07	CLP Inorganics
7429-90-5	Aluminum	14000	J, Q-5	mg/kg dry	25	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	7.4	U, J, QM-1	mg/kg dry	7.4	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.2	J, CLP07	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	33	J, Q-5	mg/kg dry	25	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.41	U, J, Q-2, CLP03	mg/kg dry	0.61	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.61	U	mg/kg dry	0.61	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	90	J, Q-2, Q-5, CLP06	mg/kg dry	610	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	17	J, Q-5	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.3	U, J, Q-2, CLP03, Q-5,	mg/kg dry	6.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	23	J, Q-5, QM-4, CLP07	mg/kg dry	3.1	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	22000	J, Q-5, CLP07	mg/kg dry	12	7/30/07	8/01/07	CLP ILM05.4 P
7439-92-1	Lead	11	J, CLP07	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	550	J, Q-2, Q-5, CLP06	mg/kg dry	610	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	82	J, Q-5	mg/kg dry	1.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	4.0	U, J, Q-2, CLP03, Q-5	mg/kg dry	4.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	290	J, Q-2, Q-5	mg/kg dry	610	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	0.66	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	38	U, J, Q-2, B-1	mg/kg dry	610	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	3.1	U	mg/kg dry	3.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	22	J, Q-5	mg/kg dry	6.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	26	J, Q-5, QM-4, CLP07	mg/kg dry	7.4	7/30/07	8/01/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M6 LIBRTY
D No: 44M6 A4

Sample ID: OK518-SL-001
Station ID: OK518

Lab ID: C073006-92
Matrix: Surface Soil

Date Collected: 7/19/07 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.052	U, J, Q-2, CLP03	mg/kg dry	0.12	8/04/07	8/06/07	CLP ILM05.4 CV
E1642941	% Solids	85		%		7/30/07	8/01/07	CLP Inorganics
7429-90-5	Aluminum	20000	J, Q-5	mg/kg dry	23	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	7.0	U, J, QM-1	mg/kg dry	7.0	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.2	J, CLP06	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	140	J, Q-5	mg/kg dry	23	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.39	U, J, Q-2, CLP03	mg/kg dry	0.58	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.58	U	mg/kg dry	0.58	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	950	J, Q-5, CLP06	mg/kg dry	580	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	33	J, Q-5	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	9.6	J, Q-5	mg/kg dry	5.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	290	J, Q-5, QM-4, CLP07	mg/kg dry	2.9	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	110000	J, Q-5, CLP07	mg/kg dry	35	7/30/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	12	J, CLP07	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	2800	J, Q-5, CLP06	mg/kg dry	580	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	390	J, Q-5	mg/kg dry	1.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	10	J, Q-5, CLP07	mg/kg dry	4.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	4100	J, Q-5	mg/kg dry	580	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	9.4	J, Q-5, QM-1	mg/kg dry	4.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	0.36	J, Q-2	mg/kg dry	1.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	30	U, J, Q-2, B-1	mg/kg dry	580	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	2.9	U	mg/kg dry	2.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	46	J, Q-5	mg/kg dry	5.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	170	J, Q-5, QM-4, CLP07	mg/kg dry	7.0	7/30/07	8/01/07	CLP ILM05.4 P

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M7 LIBRTY
D No: 44M7 A4

Sample ID: OK515-SL-001
Station ID: OK515

Lab ID: C073006-93
Matrix: Surface Soil

Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.057	U, J, Q-2, CLP03	mg/kg dry	0.11	8/04/07	8/06/07	CLP ILM05.4 CV
E1642941	% Solids	84		%		7/30/07	8/01/07	CLP Inorganics
7429-90-5	Aluminum	24000	J, Q-5	mg/kg dry	22	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	6.7	U, J, QM-6	mg/kg dry	6.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.0	J, CLP07	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	67	J, Q-5	mg/kg dry	22	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.47	U, J, Q-2, CLP03	mg/kg dry	0.55	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.55	U	mg/kg dry	0.55	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	62	U, J, Q-2, B-1, Q-5, CLP06	mg/kg dry	550	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	25	J, Q-5	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	8.8	J, Q-5, QM-4	mg/kg dry	5.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	160	J, Q-5, QM-4, CLP07	mg/kg dry	2.8	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	32000	J, Q-5, CLP07	mg/kg dry	11	7/30/07	8/01/07	CLP ILM05.4 P
7439-92-1	Lead	11	J, CLP07	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	2600	J, Q-5, CLP06	mg/kg dry	550	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	230	J, Q-5	mg/kg dry	1.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	11	J, Q-5, CLP07	mg/kg dry	4.4	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	2600	J, Q-5	mg/kg dry	550	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	3.9	U, J, Q-5, QM-1	mg/kg dry	3.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	1.1	U	mg/kg dry	1.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	550	U	mg/kg dry	550	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	2.8	U	mg/kg dry	2.8	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	41	J, Q-5	mg/kg dry	5.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	79	J, Q-5, QM-4, CLP07	mg/kg dry	6.7	7/30/07	8/01/07	CLP ILM05.4 P

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44N0 LIBRTY
D No: 44N0 A4

Sample ID: OK406-SL-001
Station ID: OK406

Lab ID: C073006-94
Matrix: Surface Soil

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.48		mg/kg dry	0.36	8/04/07	8/06/07	CLP ILM05.4 CV
7429-90-5	Aluminum	10000	J, Q-5	mg/kg dry	69	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	1.6	U, J, Q-2, CLP03, QM-1	mg/kg dry	21	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.4	U, J, CLP07	mg/kg dry	3.4	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	100	J, Q-5	mg/kg dry	69	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.31	U, J, Q-2, CLP03	mg/kg dry	1.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	1.7	U	mg/kg dry	1.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	2600	J, Q-5, CLP06	mg/kg dry	1700	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	21	J, Q-5	mg/kg dry	3.4	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	19	J, Q-5, QM-4	mg/kg dry	17	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	1800	J, Q-5, QM-4, CLP07	mg/kg dry	8.6	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	60000	J, Q-5, CLP07	mg/kg dry	34	7/30/07	8/01/07	CLP ILM05.4 P
7439-92-1	Lead	15	J, CLP07	mg/kg dry	3.4	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	2900	J, Q-5, CLP06	mg/kg dry	1700	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	1200	J, Q-5	mg/kg dry	5.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	10	U, J, Q-2, CLP03, Q-5,	mg/kg dry	14	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	2900	J, Q-5	mg/kg dry	1700	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	2.6	U, J, Q-2, CLP03, Q-5,	mg/kg dry	12	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	0.25	R, Q-2, CLP04	mg/kg dry	3.4	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	99	U, J, Q-2, B-1	mg/kg dry	1700	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	8.6	U	mg/kg dry	8.6	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	29	J, Q-5	mg/kg dry	17	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	170	J, Q-5, QM-4, CLP07	mg/kg dry	21	7/30/07	8/01/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44N0 LIBRTY
D No: 44N0 A4

Sample ID: OK406-SL-001
Station ID: OK406

Lab ID: C073006-94
Matrix: Surface Soil

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	27		%		7/31/07	8/01/07	CLP Inorganics
57-12-5	Cyanide	9.3	U	mg/kg dry	9.3	7/31/07	8/01/07	CLP ILM05.4 AS

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Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44N1 LIBRTY
D No: 44N1 A4

Sample ID: OK502-SL-001
Station ID: OK502

Lab ID: C073006-95
Matrix: Surface Soil

Date Collected: 7/19/07 18:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U	mg/kg dry	0.11	8/04/07	8/06/07	CLP ILM05.4 CV
E1642941	% Solids	76		%		7/30/07	8/01/07	CLP Inorganics
7429-90-5	Aluminum	1700	J, Q-5	mg/kg dry	25	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	7.5	U, J, QM-1	mg/kg dry	7.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	3.5	J, CLP07	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	110	J, Q-5	mg/kg dry	25	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.63	U	mg/kg dry	0.63	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.63	U	mg/kg dry	0.63	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	300	J, Q-2, Q-5, CLP06	mg/kg dry	630	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	9.6	J, Q-5	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	5.0	U, J, Q-2, CLP03, Q-5,	mg/kg dry	6.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	79	J, Q-5, QM-4, CLP07	mg/kg dry	3.1	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	90000	J, Q-5, CLP07	mg/kg dry	25	7/30/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	10	J, CLP07	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	320	J, Q-2, Q-5, CLP06	mg/kg dry	630	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	130	J, Q-5	mg/kg dry	1.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	3.3	U, J, Q-2, CLP03, Q-5,	mg/kg dry	5.0	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	4000	J, Q-5	mg/kg dry	630	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	23	J, Q-5, QM-1	mg/kg dry	4.4	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	0.79	J, Q-2	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	380	J, Q-2	mg/kg dry	630	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	3.1	U	mg/kg dry	3.1	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	28	J, Q-5	mg/kg dry	6.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	120	J, Q-5, QM-4, CLP07	mg/kg dry	7.5	7/30/07	8/01/07	CLP ILM05.4 P

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980 College Station Road, Athens, Georgia 30605-2700

Total Metals

07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44N3 LIBRTY
D No: 44N3 A4

Sample ID: OK004-SD-001
Station ID: OK004

Lab ID: C073006-96
Matrix: Sediment

Date Collected: 7/19/07 17:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.29		mg/kg dry	0.12	8/04/07	8/06/07	CLP ILM05.4 CV
E1642941	% Solids	75		%		7/30/07	8/01/07	CLP Inorganics
7429-90-5	Aluminum	12000	J, Q-5	mg/kg dry	26	7/30/07	8/01/07	CLP ILM05.4 P
7440-36-0	Antimony	7.7	U, J, QM-1	mg/kg dry	7.7	7/30/07	8/01/07	CLP ILM05.4 P
7440-38-2	Arsenic	2.2	J, CLP07	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-39-3	Barium	59	J, Q-5	mg/kg dry	26	7/30/07	8/01/07	CLP ILM05.4 P
7440-41-7	Beryllium	1.2		mg/kg dry	0.64	7/30/07	8/01/07	CLP ILM05.4 P
7440-43-9	Cadmium	0.64	U	mg/kg dry	0.64	7/30/07	8/01/07	CLP ILM05.4 P
7440-70-2	Calcium	180	J, Q-2, Q-5, CLP06	mg/kg dry	640	7/30/07	8/01/07	CLP ILM05.4 P
7440-47-3	Chromium	31	J, Q-5	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-48-4	Cobalt	9.1	J, Q-5, QM-4	mg/kg dry	6.4	7/30/07	8/01/07	CLP ILM05.4 P
7440-50-8	Copper	1000	J, Q-5, QM-4, CLP07	mg/kg dry	3.2	7/30/07	8/01/07	CLP ILM05.4 P
7439-89-6	Iron	110000	J, Q-5, CLP07	mg/kg dry	26	7/30/07	8/02/07	CLP ILM05.4 P
7439-92-1	Lead	23	J, CLP07	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7439-95-4	Magnesium	2300	J, CLP06, Q-5	mg/kg dry	640	7/30/07	8/01/07	CLP ILM05.4 P
7439-96-5	Manganese	730	J, Q-5	mg/kg dry	1.9	7/30/07	8/01/07	CLP ILM05.4 P
7440-02-0	Nickel	4.8	U, J, Q-2, CLP03, Q-5,	mg/kg dry	5.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-09-7	Potassium	2300	J, Q-5	mg/kg dry	640	7/30/07	8/01/07	CLP ILM05.4 P
7782-49-2	Selenium	1.5	U, J, Q-2, CLP03, Q-5,	mg/kg dry	4.5	7/30/07	8/01/07	CLP ILM05.4 P
7440-22-4	Silver	1.0	J, Q-2	mg/kg dry	1.3	7/30/07	8/01/07	CLP ILM05.4 P
7440-23-5	Sodium	640	U	mg/kg dry	640	7/30/07	8/01/07	CLP ILM05.4 P
7440-28-0	Thallium	3.2	U	mg/kg dry	3.2	7/30/07	8/01/07	CLP ILM05.4 P
7440-62-2	Vanadium	47	J, Q-5	mg/kg dry	6.4	7/30/07	8/01/07	CLP ILM05.4 P
7440-66-6	Zinc	49	J, Q-5, QM-4, CLP07	mg/kg dry	7.7	7/30/07	8/01/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

November 6, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 07-0507, Ore Knob Mine Site
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Brian Striggow

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
PCB Aroclors (PCBA)	
PCB aroclors	CLP Aroclors

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 07-0507

Report Narrative for Work Order C073006, Project: 07-0507
Site Name: Ore Knob Mine Site, Jefferson, NC
Case No. 36622, Project No. 07-0507, Work Order No. C073006 & C073101
ELEMENT Nos. C073006-01 - C073006-96, C093101-01, C093101-25, C093101-30
Sampling Dates: 07/17-19/07

Inorganic Analysis: CompuChem, Cary, NC
Date Received from Lab: 08/15/07
Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 96 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications.

ICP-AES Analysis

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

Matrix spiked sample recovery for antimony in SDG MD4497 was 7%. All sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for arsenic, cadmium, manganese, selenium, and thallium in SDG MD4497 were all outside the control limits of 75 to 125%. All sample results for arsenic, cadmium, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and zinc in SDG MD44C2 were 16 and -70% respectively. In addition, the matrix duplicate relative percent difference for zinc in SDG MD44C2 was 114%. All sample results for antimony and zinc in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony and zinc in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recovery for antimony and selenium in SDG MD44L2 were both 67%. In addition, the serial dilution percent difference for selenium in the above SDG was 15%. All sample results for antimony in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and thallium in SDG MD44E5 were 65 and 68% respectively. All sample results for antimony and thallium were considered estimated and flagged "J".

Matrix spiked sample recoveries for arsenic and lead in SDG MD44E5 were both 153%. All positive sample results for arsenic and lead in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recovery for antimony in SDG MD44C3 was 13%. All positive sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for lead, manganese, selenium, and thallium in SDG MD44C3 were all outside the control limits of 75-125%. All sample results for lead, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Performance evaluation sample (PES) recoveries for calcium and magnesium were both scored as action low. All positive sample results for calcium and magnesium were considered estimated and flagged "J". All non-detected sample results for calcium and magnesium were considered unusable and flagged "R".

Recoveries for arsenic, copper, iron, lead, nickel, and zinc in the soil PES were all scored as warning low. All sample results for arsenic, copper, iron, lead, nickel, and zinc were considered estimated and flagged "J".

Matrix duplicate relative percent differences for cobalt, copper, and zinc in SDG MD44L2 were all outside the control limits of ± 35%. In addition, the serial dilution for cobalt, copper, and zinc in the above SDG were all outside the control limits of ± 10%. All sample results for cobalt, copper, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in SDG MD4497 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for selenium in SDG MD44C2 was 20%. All sample results for selenium in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and vanadium in SDG MD44L2 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, and vanadium in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for potassium in SDG MD44E5 was 13%. All sample results for potassium in the above SDG were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures for arsenic in sample

C073006-75 and 89 and silver in sample C073006-66. The above sample results were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for arsenic in samples C073006-01, 03, 05, 12, 17, 24, 37, 38, 39, 40, 70, 71, 72, 73, and 76, beryllium in sample C073006-63, 65, 66, and 75, cadmium in samples C073006-05, 09, and 32, cobalt in sample C073006-07, selenium in samples C073006-02, 16, 17, 18, 24, 27,28, 30, 31, 34, 38, 40, and 62, silver in samples C073006-41, 44, 45, 57, 58, 65, 74, 84, 85, and 94, and thallium in samples C073006-20, 25, 55, 64, 66, 68, and 70. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Deliverables

Sample C073006-65 (MD44H8) was mislabeled as sample MD44G8 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Sample C073006-61 (MD44H3) was mislabeled as sample MD44H2 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Organic Analysis: A4 Scientific, The Woodlands, TX

The ESAT Work Team reviewed data for 26 water and 85 soil samples analyzed for volatiles, semivolatile extractables, and aroclors, per CLP statement of work SOM01.1. The samples were received by the laboratory between 07/18/07 and 07/24/07, and the final data package was received on 08/14/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The resubmission of volatile data was received on 09/04/07; the second resubmission of volatile data was received 09/14/07; the third resubmission of volatile data was received 09/20/07. The resubmission of aroclor data was received on 10/11/07, with the final submission of aroclor data received on 10/22/07.

The laboratory satisfied all technical and contractual analysis and extraction holding time limits except for the eight aroclor extracts which required sulfur removal [C073006-19 (D44C1), C073006-33 (D44D5), C073006-39 (D44E3), C073006-40 (D44E4), C073006-41 (D44E5), C073006-52 (D44G3), C073006-74 (D44J8), and C073006-82 (D44L4)]. These extracts exceeded the forty day holding time limit and all aroclor results for these samples were "J" qualified.

Target analytes dichlorodifluoromethane and trichlorofluoromethane were scored as warning low in the water volatile PES. All results for these compounds were "J" qualified in the water volatile samples. Target analyte 1,4-dioxane was scored as action low and all water volatile results, which were nondetects, were "R" qualified. Three compounds, methylene chloride, trichloroethene and methyl acetate, were scored as PES contaminants at less than the CRQL. All PES contaminants were treated as method blank contaminants during data qualification.

Target analytes 1,2-dichloroethane was originally scored as an analyte missed. The retention time for this compound is incorrect, but the same as the spiked 1,2-dichloropropane, in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed and the resubmission of data corrected the problem. Data qualification was not necessary.

The compound cis-1,3-dichloropropene was originally scored as an analyte missed and trans-1,3-dichloropropene (41 ug/l) was scored as a PES contaminant at greater than the CRQL. The retention order for these two compounds is reversed in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed of this reversal. The resubmitted data corrected this problem and data qualification was not required.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. The DMC stock solution prepared by the laboratory contains a mixture of the cis and trans isomers of 1,3-dichloropropene-d4. The DMC specified as trans-1,3-dichloropropene-d4 on the quantitation lists for instrument H-5975 should have been identified as cis-1,3-dichloropropene-d4, which is not used as a DMC in the contract method. The volatile samples analyzed with instrument H-5975 were processed using the incorrect DMC. The resubmitted data corrected this problem and data qualification was not required.

Low DMC recoveries were observed in semivolatile extractable water sample SESD No. C073101-14 (D44K5) and all compounds associated with these DMCs were "J" qualified.

Low DMC recoveries were observed in semivolatile extractable soil sample SESD Nos. C073006-06 (D44A5), C073006-18 (D44C0), D073006-35 (D44H9), D073006-39 (D44E3), D073006-40 (D44E4), D073006-41 (D44E5), D073006-49 (D44G0), D073006-63 (D44H5), D073006-66 (D44J0), D073006-69 (D44J3) D073006-71 (D44K0), D073006-79 (D44L1), D073006-86 (D44M0), D073006-88 (D44M2), D073006-90 (D44M4), D073006-91 (D44M5), and D073006-94 (D44N0). All compounds associated with these DMCs were "J" qualified.

High DMC recovery was observed for benzo-a-pyrene-d12 in semivolatile extractable soil sample SESD No. C073006-04 (D43Z2). The results for detected compounds associated with this DMC were "J" qualified.

Low recovery and poor precision was observed for acenaphthene in the water MS/MSD performed for semivolatile extractable sample SESD No. C073101-12 (D44K3). Low recovery for N-nitroso-di-n-propylamine and poor precision for 2,4-dinitrotoluene and pyrene was also observed in this MS/MSD. All results for these compounds were "J" qualified in this sample. Low recovery for N-nitroso-di-n-propylamine and acenaphthene was observed and poor precision for acenaphthene was observed in the soil MS/MSD performed for SESD No. C073006-35 (D44P9) and these results were "J" qualified. Also, low recovery was observed for N-nitroso-di-n-propylamine and pyrene in the soil MS/MSD performed for semivolatile extractable sample SESD No. C073006-66 (D44J0) and these results were "J" qualified.

Volatile and semivolatile extractable compounds which exhibited erratic continuing calibration performance were "J" qualified in the associated samples.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

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D.A.R.T. Id: 07-0507

SAMPLES INCLUDED IN THIS REPORT

Project: 07-0507, Ore Knob Mine Site **Contract Lab Case: 36622**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
OK400-SL-001	C073006-01	4499	4499	Surface Soil	7/17/07 12:05	7/24/07 07:36
OK401-SL-001	C073006-02	44A0	44A0	Surface Soil	7/17/07 11:00	7/24/07 07:36
OK402-SL-001	C073006-03	44A1	44A1	Surface Soil	7/17/07 12:35	7/24/07 07:36
OK411-SL-001	C073006-04	44A3	44A3	Surface Soil	7/17/07 16:04	7/24/07 07:36
OK412-SL-001	C073006-05	44A4	44A4	Surface Soil	7/17/07 10:25	7/24/07 07:36
OK026-SD-001	C073006-06	44A5	44A5	Sediment	7/17/07 11:45	7/24/07 07:36
OK026-SD-002	C073006-07	44A6	44A6	Sediment	7/17/07 12:10	7/24/07 07:36
OK019-SD-003	C073006-08	44A7	44A7	Sediment	7/17/07 12:50	7/24/07 07:36
OK018-SD-001	C073006-16	44B8	44B8	Sediment	7/17/07 17:05	7/24/07 07:36
OK018-SD-002	C073006-17	44B9	44B9	Sediment	7/17/07 17:15	7/24/07 07:36
OK018-SD-003	C073006-18	44C0	44C0	Sediment	7/17/07 17:25	7/24/07 07:36
OK417-SL-001	C073006-19	44C1	44C1	Surface Soil	7/18/07 17:35	7/24/07 07:36
OK415-SL-001	C073006-20	44C2	44C2	Surface Soil	7/18/07 16:25	7/24/07 07:36
OK019-SD-001	C073006-21	44C3	44C3	Sediment	7/17/07 15:05	7/24/07 07:36
OK019-SD-002	C073006-22	44C4	44C4	Sediment	7/17/07 15:00	7/24/07 07:36
OK204-SL-001	C073006-23	44C5	44C5	Surface Soil	7/17/07 16:15	7/24/07 07:36
OK205-SL-001	C073006-24	44C6	44C6	Surface Soil	7/17/07 15:50	7/24/07 07:36
OK200-SL-001	C073006-25	44C7	44C7	Surface Soil	7/17/07 18:05	7/24/07 07:36
OK201-SL-001	C073006-26	44C8	44C8	Surface Soil	7/17/07 17:48	7/24/07 07:36
OK202-SL-001	C073006-27	44C9	44C9	Surface Soil	7/17/07 16:55	7/24/07 07:36
OK203-SL-001	C073006-28	44D0	44D0	Surface Soil	7/17/07 17:13	7/24/07 07:36
OK020-SD-001	C073006-29	44D1	44D1	Sediment	7/17/07 15:45	7/24/07 07:36
OK300-WA-001	C073006-30	44D2	44D2	Surface Soil	7/17/07 17:25	7/24/07 07:36
OK301-WA-001	C073006-31	44D3	44D3	Surface Soil	7/17/07 18:00	7/24/07 07:36
OK352-WA-001	C073006-33	44D5	44D5	Surface Soil	7/17/07 16:55	7/24/07 07:36
OK408-SL-001	C073006-34	44D8	44D8	Surface Soil	7/18/07 08:40	7/24/07 07:36
OK414-SL-001	C073006-35	44D9	44D9	Surface Soil	7/18/07 09:50	7/24/07 07:36
OK414-SL-001D	C073006-36	44E0	44E0	Surface Soil	7/18/07 09:50	7/24/07 07:36
OK419-SL-001	C073006-37	44E1	44E1	Surface Soil	7/18/07 12:20	7/24/07 07:36
OK416-SL-001	C073006-38	44E2	44E2	Surface Soil	7/18/07 12:45	7/24/07 07:36
OK413-SL-001	C073006-39	44E3	44E3	Surface Soil	7/18/07 11:35	7/24/07 07:36
OK418-SL-001	C073006-40	44E4	44E4	Surface Soil	7/18/07 09:15	7/24/07 07:36
OK427-SD-001	C073006-41	44E5	44E5	Sediment	7/17/07 09:29	7/24/07 07:36
OK555-WA-001	C073006-43	44E7	44E7	Surface Soil	7/18/07 11:25	7/24/07 07:36

OK021-SD-001	C073006-44	44E8	44E8	Sediment	7/18/07 10:20	7/24/07 07:36
OK024-SD-001	C073006-45	44E9	44E9	Sediment	7/18/07 11:00	7/24/07 07:36
OK022-SD-001	C073006-46	44F1	44F1	Sediment	7/18/07 09:45	7/24/07 07:36
OK023-SD-001	C073006-47	44F2	44F2	Sediment	7/18/07 10:35	7/24/07 07:36
OK551-SL-001	C073006-48	44F9	44F9	Surface Soil	7/18/07 13:45	7/24/07 07:36
OK558-WA-001	C073006-49	44G0	44G0	Surface Soil	7/18/07 17:45	7/24/07 07:36
OK552-WA-001	C073006-50	44G1	44G1	Surface Soil	7/18/07 13:10	7/24/07 07:36
OK553-SL-001	C073006-51	44G2	44G2	Surface Soil	7/18/07 15:45	7/24/07 07:36
OK554-SL-001	C073006-52	44G3	44G3	Surface Soil	7/18/07 14:30	7/24/07 07:36
OK423-SL-001	C073006-53	44G4	44G4	Surface Soil	7/18/07 16:25	7/24/07 07:36
OK015-SD-001	C073006-58	44H0	44H0	Sediment	7/18/07 17:15	7/24/07 07:36
OK016-SD-001	C073006-59	44H1	44H1	Sediment	7/18/07 15:55	7/24/07 07:36
OK016-SD-002	C073006-60	44H2	44H2	Sediment	7/18/07 16:05	7/24/07 07:36
OK016-SD-003	C073006-61	44H3	44H3	Sediment	7/18/07 16:10	7/24/07 07:36
OK017-SD-001	C073006-62	44H4	44H4	Sediment	7/18/07 14:10	7/24/07 07:36
OK014-SD-001	C073006-63	44H5	44H5	Sediment	7/18/07 18:15	7/24/07 07:36
OK014-SD-001D	C073006-64	44H6	44H6	Sediment	7/18/07 18:15	7/24/07 07:36
OK425-SL-001	C073006-65	44H8	44H8	Surface Soil	7/19/07 08:35	7/24/07 07:36
OK424-SL-001	C073006-74	44J8	44J8	Surface Soil	7/19/07 10:15	7/24/07 07:36
OK027-SD-001	C073006-80	44L2	44L2	Sediment	7/19/07 09:05	7/24/07 07:36
OK207-SD-001	C073006-81	44L3	44L3	Sediment	7/19/07 13:30	7/24/07 07:36
OK207-SD-001D	C073006-82	44L4	44L4	Sediment	7/19/07 13:35	7/24/07 07:36
OK025-SD-001	C073006-85	44L9	44L9	Sediment	7/19/07 17:10	7/24/07 07:36
OK426-SL-001	C073006-86	44M0	44M0	Surface Soil	7/19/07 16:00	7/24/07 07:36

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
H-1	Recommended holding time exceeded
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 4499 LIBRTY

D No: 4499 A4

Sample ID: OK400-SL-001 **Lab ID:** C073006-01

Station ID: OK400

Matrix: Surface Soil

Date Collected: 7/17/07 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		7/26/07	8/03/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	43	U	ug/kg dry	43	7/26/07	8/03/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	43	U	ug/kg dry	43	7/26/07	8/03/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	43	U	ug/kg dry	43	7/26/07	8/03/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	43	U	ug/kg dry	43	7/26/07	8/03/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	43	U	ug/kg dry	43	7/26/07	8/03/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	43	U	ug/kg dry	43	7/26/07	8/03/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	43	U	ug/kg dry	43	7/26/07	8/03/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	43	U	ug/kg dry	43	7/26/07	8/03/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	43	U	ug/kg dry	43	7/26/07	8/03/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A0 LIBRTY

D No: 44A0 A4

Sample ID: OK401-SL-001 **Lab ID:** C073006-02

Station ID: OK401

Matrix: Surface Soil

Date Collected: 7/17/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A

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D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A1 LIBRTY

D No: 44A1 A4

Sample ID: OK402-SL-001 **Lab ID:** C073006-03

Station ID: OK402

Matrix: Surface Soil

Date Collected: 7/17/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/26/07	8/07/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	42	U	ug/kg dry	42	7/26/07	8/07/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	42	U	ug/kg dry	42	7/26/07	8/07/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	42	U	ug/kg dry	42	7/26/07	8/07/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	42	U	ug/kg dry	42	7/26/07	8/07/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	42	U	ug/kg dry	42	7/26/07	8/07/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	42	U	ug/kg dry	42	7/26/07	8/07/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	42	U	ug/kg dry	42	7/26/07	8/07/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	42	U	ug/kg dry	42	7/26/07	8/07/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	42	U	ug/kg dry	42	7/26/07	8/07/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A3 LIBRTY

D No: 44A3 A4

Sample ID: OK411-SL-001
Station ID: OK411
Lab ID: C073006-04
Matrix: Surface Soil
Date Collected: 7/17/07 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A4 LIBRTY

D No: 44A4 A4

Sample ID: OK412-SL-001 **Lab ID:** C073006-05

Station ID: OK412

Matrix: Surface Soil

Date Collected: 7/17/07 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	37	U	ug/kg dry	37	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A5 LIBRTY

D No: 44A5 A4

Sample ID: OK026-SD-001 **Lab ID:** C073006-06

Station ID: OK026

Matrix: Sediment

Date Collected: 7/17/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	41	U	ug/kg dry	41	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	41	U	ug/kg dry	41	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	41	U	ug/kg dry	41	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	41	U	ug/kg dry	41	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	41	U	ug/kg dry	41	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	41	U	ug/kg dry	41	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	41	U	ug/kg dry	41	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	41	U	ug/kg dry	41	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	41	U	ug/kg dry	41	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A6 LIBRTY

D No: 44A6 A4

Sample ID: OK026-SD-002 **Lab ID:** C073006-07

Station ID: OK026

Matrix: Sediment

Date Collected: 7/17/07 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	38	U	ug/kg dry	38	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	38	U	ug/kg dry	38	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	38	U	ug/kg dry	38	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	38	U	ug/kg dry	38	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	38	U	ug/kg dry	38	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	38	U	ug/kg dry	38	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	38	U	ug/kg dry	38	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	38	U	ug/kg dry	38	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	38	U	ug/kg dry	38	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A7 LIBRTY

D No: 44A7 A4

Sample ID: OK019-SD-003 **Lab ID:** C073006-08

Station ID: OK019

Matrix: Sediment

Date Collected: 7/17/07 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	43	U	ug/kg dry	43	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	43	U	ug/kg dry	43	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	43	U	ug/kg dry	43	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	43	U	ug/kg dry	43	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	43	U	ug/kg dry	43	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	43	U	ug/kg dry	43	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	37	J, CLP01	ug/kg dry	43	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	43	U	ug/kg dry	43	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	43	U	ug/kg dry	43	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44B8 LIBRTY

D No: 44B8 A4

Sample ID: OK018-SD-001 **Lab ID:** C073006-16

Station ID: OK018

Matrix: Sediment

Date Collected: 7/17/07 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	29		%		7/26/07	7/31/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	46	U	ug/kg dry	46	7/26/07	7/31/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	46	U	ug/kg dry	46	7/26/07	7/31/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	46	U	ug/kg dry	46	7/26/07	7/31/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	46	U	ug/kg dry	46	7/26/07	7/31/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	46	U	ug/kg dry	46	7/26/07	7/31/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	46	U	ug/kg dry	46	7/26/07	7/31/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	46	U	ug/kg dry	46	7/26/07	7/31/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	46	U	ug/kg dry	46	7/26/07	7/31/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	46	U	ug/kg dry	46	7/26/07	7/31/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44B9 LIBRTY

D No: 44B9 A4

Sample ID: OK018-SD-002 **Lab ID:** C073006-17

Station ID: OK018

Matrix: Sediment

Date Collected: 7/17/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	33		%		7/26/07	7/31/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	49	U	ug/kg dry	49	7/26/07	7/31/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	49	U	ug/kg dry	49	7/26/07	7/31/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	49	U	ug/kg dry	49	7/26/07	7/31/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	49	U	ug/kg dry	49	7/26/07	7/31/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	49	U	ug/kg dry	49	7/26/07	7/31/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	49	U	ug/kg dry	49	7/26/07	7/31/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	49	U	ug/kg dry	49	7/26/07	7/31/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	49	U	ug/kg dry	49	7/26/07	7/31/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	49	U	ug/kg dry	49	7/26/07	7/31/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C0 LIBRTY

D No: 44C0 A4

Sample ID: OK018-SD-003
Station ID: OK018
Lab ID: C073006-18
Matrix: Sediment
Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		7/26/07	7/31/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	44	U	ug/kg dry	44	7/26/07	7/31/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	44	U	ug/kg dry	44	7/26/07	7/31/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	44	U	ug/kg dry	44	7/26/07	7/31/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	44	U	ug/kg dry	44	7/26/07	7/31/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	44	U	ug/kg dry	44	7/26/07	7/31/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	U	ug/kg dry	44	7/26/07	7/31/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	44	U	ug/kg dry	44	7/26/07	7/31/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	44	U	ug/kg dry	44	7/26/07	7/31/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	44	U	ug/kg dry	44	7/26/07	7/31/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C1 LIBRTY

D No: 44C1 A4

Sample ID: OK417-SL-001 **Lab ID:** C073006-19

Station ID: OK417

Matrix: Surface Soil

Date Collected: 7/18/07 17:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		7/26/07	10/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	41	U, J, H-1	ug/kg dry	41	7/26/07	10/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	41	U, J, H-1	ug/kg dry	41	7/26/07	10/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	41	U, J, H-1	ug/kg dry	41	7/26/07	10/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	41	U, J, H-1	ug/kg dry	41	7/26/07	10/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	41	U, J, H-1	ug/kg dry	41	7/26/07	10/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	41	U, J, H-1	ug/kg dry	41	7/26/07	10/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	53	J, H-1	ug/kg dry	41	7/26/07	10/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	41	U, J, H-1	ug/kg dry	41	7/26/07	10/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	41	U, J, H-1	ug/kg dry	41	7/26/07	10/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C2 LIBRTY

D No: 44C2 A4

Sample ID: OK415-SL-001
Station ID: OK415
Lab ID: C073006-20
Matrix: Surface Soil
Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		7/26/07	7/31/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	42	U	ug/kg dry	42	7/26/07	7/31/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	42	U	ug/kg dry	42	7/26/07	7/31/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	42	U	ug/kg dry	42	7/26/07	7/31/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	42	U	ug/kg dry	42	7/26/07	7/31/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	42	U	ug/kg dry	42	7/26/07	7/31/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	42	U	ug/kg dry	42	7/26/07	7/31/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	42	U	ug/kg dry	42	7/26/07	7/31/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	42	U	ug/kg dry	42	7/26/07	7/31/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	42	U	ug/kg dry	42	7/26/07	7/31/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C3 LIBRTY

D No: 44C3 A4

Sample ID: OK019-SD-001 **Lab ID:** C073006-21

Station ID: OK019

Matrix: Sediment

Date Collected: 7/17/07 15:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C4 LIBRTY

D No: 44C4 A4

Sample ID: OK019-SD-002 **Lab ID:** C073006-22

Station ID: OK019

Matrix: Sediment

Date Collected: 7/17/07 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		7/26/07	7/31/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	40	U	ug/kg dry	40	7/26/07	7/31/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	40	U	ug/kg dry	40	7/26/07	7/31/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	40	U	ug/kg dry	40	7/26/07	7/31/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	40	U	ug/kg dry	40	7/26/07	7/31/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	40	U	ug/kg dry	40	7/26/07	7/31/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	40	U	ug/kg dry	40	7/26/07	7/31/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	40	U	ug/kg dry	40	7/26/07	7/31/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	40	U	ug/kg dry	40	7/26/07	7/31/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	40	U	ug/kg dry	40	7/26/07	7/31/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C5 LIBRTY

D No: 44C5 A4

Sample ID: OK204-SL-001 **Lab ID:** C073006-23

Station ID: OK204

Matrix: Surface Soil

Date Collected: 7/17/07 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		7/26/07	7/31/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	39	U	ug/kg dry	39	7/26/07	7/31/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	39	U	ug/kg dry	39	7/26/07	7/31/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	39	U	ug/kg dry	39	7/26/07	7/31/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	39	U	ug/kg dry	39	7/26/07	7/31/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	39	U	ug/kg dry	39	7/26/07	7/31/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	39	U	ug/kg dry	39	7/26/07	7/31/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	39	U	ug/kg dry	39	7/26/07	7/31/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	39	U	ug/kg dry	39	7/26/07	7/31/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	39	U	ug/kg dry	39	7/26/07	7/31/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C6 LIBRTY

D No: 44C6 A4

Sample ID: OK205-SL-001 **Lab ID:** C073006-24

Station ID: OK205

Matrix: Surface Soil

Date Collected: 7/17/07 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	42	U	ug/kg dry	42	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	42	U	ug/kg dry	42	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	42	U	ug/kg dry	42	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	42	U	ug/kg dry	42	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	42	U	ug/kg dry	42	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	42	U	ug/kg dry	42	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	42	U	ug/kg dry	42	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	42	U	ug/kg dry	42	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	42	U	ug/kg dry	42	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C7 LIBRTY

D No: 44C7 A4

Sample ID: OK200-SL-001 **Lab ID:** C073006-25

Station ID: OK200

Matrix: Surface Soil

Date Collected: 7/17/07 18:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C8 LIBRTY

D No: 44C8 A4

Sample ID: OK201-SL-001
Station ID: OK201
Lab ID: C073006-26
Matrix: Surface Soil
Date Collected: 7/17/07 17:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	31		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	48	U	ug/kg dry	48	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	48	U	ug/kg dry	48	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	48	U	ug/kg dry	48	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	48	U	ug/kg dry	48	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	48	U	ug/kg dry	48	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	48	U	ug/kg dry	48	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	48	U	ug/kg dry	48	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	48	U	ug/kg dry	48	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	48	U	ug/kg dry	48	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C9 LIBRTY

D No: 44C9 A4

Sample ID: OK202-SL-001 **Lab ID:** C073006-27

Station ID: OK202

Matrix: Surface Soil

Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	44	U	ug/kg dry	44	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D0 LIBRTY

D No: 44D0 A4

Sample ID: OK203-SL-001 **Lab ID:** C073006-28

Station ID: OK203

Matrix: Surface Soil

Date Collected: 7/17/07 17:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D1 LIBRTY

D No: 44D1 A4

Sample ID: OK020-SD-001 **Lab ID:** C073006-29

Station ID: OK020

Matrix: Sediment

Date Collected: 7/17/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	39	U	ug/kg dry	39	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D2 LIBRTY

D No: 44D2 A4

Sample ID: OK300-WA-001 **Lab ID:** C073006-30

Station ID: OK300

Matrix: Surface Soil

Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	27		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	45	U	ug/kg dry	45	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	45	U	ug/kg dry	45	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	45	U	ug/kg dry	45	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	45	U	ug/kg dry	45	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	45	U	ug/kg dry	45	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	45	U	ug/kg dry	45	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	45	U	ug/kg dry	45	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	45	U	ug/kg dry	45	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	45	U	ug/kg dry	45	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D3 LIBRTY

D No: 44D3 A4

Sample ID: OK301-WA-001 **Lab ID:** C073006-31

Station ID: OK301

Matrix: Surface Soil

Date Collected: 7/17/07 18:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/26/07	8/04/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	42	U	ug/kg dry	42	7/26/07	8/04/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	42	U	ug/kg dry	42	7/26/07	8/04/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	42	U	ug/kg dry	42	7/26/07	8/04/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	42	U	ug/kg dry	42	7/26/07	8/04/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	42	U	ug/kg dry	42	7/26/07	8/04/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	42	U	ug/kg dry	42	7/26/07	8/04/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	42	U	ug/kg dry	42	7/26/07	8/04/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	42	U	ug/kg dry	42	7/26/07	8/04/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	42	U	ug/kg dry	42	7/26/07	8/04/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D5 LIBRTY

D No: 44D5 A4

Sample ID: OK352-WA-001 **Lab ID:** C073006-33

Station ID: OK352

Matrix: Surface Soil

Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	5.0		%		7/26/07	10/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	35	U, J, H-1	ug/kg dry	35	7/26/07	10/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	35	U, J, H-1	ug/kg dry	35	7/26/07	10/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	35	U, J, H-1	ug/kg dry	35	7/26/07	10/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	35	U, J, H-1	ug/kg dry	35	7/26/07	10/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	35	U, J, H-1	ug/kg dry	35	7/26/07	10/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	35	U, J, H-1	ug/kg dry	35	7/26/07	10/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	35	U, J, H-1	ug/kg dry	35	7/26/07	10/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	35	U, J, H-1	ug/kg dry	35	7/26/07	10/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	35	U, J, H-1	ug/kg dry	35	7/26/07	10/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D8 LIBRTY

D No: 44D8 A4

Sample ID: OK408-SL-001 **Lab ID:** C073006-34

Station ID: OK408

Matrix: Surface Soil

Date Collected: 7/18/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		7/26/07	8/05/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	38	U	ug/kg dry	38	7/26/07	8/05/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	38	U	ug/kg dry	38	7/26/07	8/05/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	38	U	ug/kg dry	38	7/26/07	8/05/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	38	U	ug/kg dry	38	7/26/07	8/05/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	38	U	ug/kg dry	38	7/26/07	8/05/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	38	U	ug/kg dry	38	7/26/07	8/05/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	38	U	ug/kg dry	38	7/26/07	8/05/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	38	U	ug/kg dry	38	7/26/07	8/05/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	38	U	ug/kg dry	38	7/26/07	8/05/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D9 LIBRTY

D No: 44D9 A4

Sample ID: OK414-SL-001 **Lab ID:** C073006-35

Station ID: OK414

Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	40		%		7/26/07	8/06/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	54	U	ug/kg dry	54	7/26/07	8/06/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	54	U	ug/kg dry	54	7/26/07	8/06/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	54	U	ug/kg dry	54	7/26/07	8/06/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	54	U	ug/kg dry	54	7/26/07	8/06/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	54	U	ug/kg dry	54	7/26/07	8/06/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	J, CLP01	ug/kg dry	54	7/26/07	8/06/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	54	U	ug/kg dry	54	7/26/07	8/06/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	54	U	ug/kg dry	54	7/26/07	8/06/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	54	U	ug/kg dry	54	7/26/07	8/06/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E0 LIBRTY

D No: 44E0 A4

Sample ID: OK414-SL-001D
Station ID: OK414
Lab ID: C073006-36
Matrix: Surface Soil
Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	33		%		7/26/07	8/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	49	U	ug/kg dry	49	7/26/07	8/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	49	U	ug/kg dry	49	7/26/07	8/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	49	U	ug/kg dry	49	7/26/07	8/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	49	U	ug/kg dry	49	7/26/07	8/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	49	U	ug/kg dry	49	7/26/07	8/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	49	U	ug/kg dry	49	7/26/07	8/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	49	U	ug/kg dry	49	7/26/07	8/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	49	U	ug/kg dry	49	7/26/07	8/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	49	U	ug/kg dry	49	7/26/07	8/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E1 LIBRTY

D No: 44E1 A4

Sample ID: OK419-SL-001
Station ID: OK419
Lab ID: C073006-37
Matrix: Surface Soil
Date Collected: 7/18/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		7/26/07	8/03/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	38	U	ug/kg dry	38	7/26/07	8/03/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	38	U	ug/kg dry	38	7/26/07	8/03/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	38	U	ug/kg dry	38	7/26/07	8/03/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	38	U	ug/kg dry	38	7/26/07	8/03/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	38	U	ug/kg dry	38	7/26/07	8/03/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	38	U	ug/kg dry	38	7/26/07	8/03/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	38	U	ug/kg dry	38	7/26/07	8/03/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	38	U	ug/kg dry	38	7/26/07	8/03/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	38	U	ug/kg dry	38	7/26/07	8/03/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E2 LIBRTY

D No: 44E2 A4

Sample ID: OK416-SL-001
Station ID: OK416
Lab ID: C073006-38
Matrix: Surface Soil
Date Collected: 7/18/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/26/07	8/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	41	U	ug/kg dry	41	7/26/07	8/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	41	U	ug/kg dry	41	7/26/07	8/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	41	U	ug/kg dry	41	7/26/07	8/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	41	U	ug/kg dry	41	7/26/07	8/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	41	U	ug/kg dry	41	7/26/07	8/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	41	U	ug/kg dry	41	7/26/07	8/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	41	U	ug/kg dry	41	7/26/07	8/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	41	U	ug/kg dry	41	7/26/07	8/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	41	U	ug/kg dry	41	7/26/07	8/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E3 LIBRTY

D No: 44E3 A4

Sample ID: OK413-SL-001
Station ID: OK412
Lab ID: C073006-39
Matrix: Surface Soil
Date Collected: 7/18/07 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		7/26/07	9/27/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	43	U, J, H-1	ug/kg dry	43	7/26/07	9/27/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	43	U, J, H-1	ug/kg dry	43	7/26/07	9/27/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	43	U, J, H-1	ug/kg dry	43	7/26/07	9/27/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	43	U, J, H-1	ug/kg dry	43	7/26/07	9/27/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	43	U, J, H-1	ug/kg dry	43	7/26/07	9/27/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	43	U, J, H-1	ug/kg dry	43	7/26/07	9/27/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	43	U, J, H-1	ug/kg dry	43	7/26/07	9/27/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	43	U, J, H-1	ug/kg dry	43	7/26/07	9/27/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	43	U, J, H-1	ug/kg dry	43	7/26/07	9/27/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E4 LIBRTY

D No: 44E4 A4

Sample ID: OK418-SL-001 **Lab ID:** C073006-40

Station ID: OK418

Matrix: Surface Soil

Date Collected: 7/18/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	9.0		%		7/26/07	10/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	36	U, J, H-1	ug/kg dry	36	7/26/07	10/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	36	U, J, H-1	ug/kg dry	36	7/26/07	10/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	36	U, J, H-1	ug/kg dry	36	7/26/07	10/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	36	U, J, H-1	ug/kg dry	36	7/26/07	10/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	36	U, J, H-1	ug/kg dry	36	7/26/07	10/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	36	U, J, H-1	ug/kg dry	36	7/26/07	10/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	36	U, J, H-1	ug/kg dry	36	7/26/07	10/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	36	U, J, H-1	ug/kg dry	36	7/26/07	10/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	36	U, J, H-1	ug/kg dry	36	7/26/07	10/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E5 LIBRTY

D No: 44E5 A4

Sample ID: OK427-SD-001 **Lab ID:** C073006-41

Station ID: OK427

Matrix: Sediment

Date Collected: 7/17/07 9:29

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	70		%		7/26/07	10/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	110	U, J, H-1	ug/kg dry	110	7/26/07	10/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	110	U, J, H-1	ug/kg dry	110	7/26/07	10/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	110	U, J, H-1	ug/kg dry	110	7/26/07	10/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	110	U, J, H-1	ug/kg dry	110	7/26/07	10/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	110	U, J, H-1	ug/kg dry	110	7/26/07	10/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	110	U, J, H-1	ug/kg dry	110	7/26/07	10/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	110	U, J, H-1	ug/kg dry	110	7/26/07	10/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	110	U, J, H-1	ug/kg dry	110	7/26/07	10/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	110	U, J, H-1	ug/kg dry	110	7/26/07	10/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E7 LIBRTY

D No: 44E7 A4

Sample ID: OK555-WA-001 **Lab ID:** C073006-43

Station ID: OK555

Matrix: Surface Soil

Date Collected: 7/18/07 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		7/26/07	8/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	39	U	ug/kg dry	39	7/26/07	8/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	39	U	ug/kg dry	39	7/26/07	8/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	39	U	ug/kg dry	39	7/26/07	8/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	39	U	ug/kg dry	39	7/26/07	8/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	39	U	ug/kg dry	39	7/26/07	8/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	39	U	ug/kg dry	39	7/26/07	8/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	39	U	ug/kg dry	39	7/26/07	8/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	39	U	ug/kg dry	39	7/26/07	8/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	39	U	ug/kg dry	39	7/26/07	8/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E8 LIBRTY

D No: 44E8 A4

Sample ID: OK021-SD-001
Station ID: OK021
Lab ID: C073006-44
Matrix: Sediment
Date Collected: 7/18/07 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		7/26/07	8/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	43	U	ug/kg dry	43	7/26/07	8/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	43	U	ug/kg dry	43	7/26/07	8/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	43	U	ug/kg dry	43	7/26/07	8/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	43	U	ug/kg dry	43	7/26/07	8/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	43	U	ug/kg dry	43	7/26/07	8/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	43	U	ug/kg dry	43	7/26/07	8/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	43	U	ug/kg dry	43	7/26/07	8/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	43	U	ug/kg dry	43	7/26/07	8/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	43	U	ug/kg dry	43	7/26/07	8/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E9 LIBRTY

D No: 44E9 A4

Sample ID: OK024-SD-001
Station ID: OK024
Lab ID: C073006-45
Matrix: Sediment
Date Collected: 7/18/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	28		%		7/26/07	8/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	45	U	ug/kg dry	45	7/26/07	8/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	45	U	ug/kg dry	45	7/26/07	8/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	45	U	ug/kg dry	45	7/26/07	8/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	45	U	ug/kg dry	45	7/26/07	8/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	45	U	ug/kg dry	45	7/26/07	8/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	45	U	ug/kg dry	45	7/26/07	8/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	45	U	ug/kg dry	45	7/26/07	8/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	45	U	ug/kg dry	45	7/26/07	8/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	45	U	ug/kg dry	45	7/26/07	8/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F1 LIBRTY

D No: 44F1 A4

Sample ID: OK022-SD-001 **Lab ID:** C073006-46

Station ID: OK022 **Matrix:** Sediment

Date Collected: 7/18/07 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		7/26/07	8/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	40	U	ug/kg dry	40	7/26/07	8/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	40	U	ug/kg dry	40	7/26/07	8/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	40	U	ug/kg dry	40	7/26/07	8/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	40	U	ug/kg dry	40	7/26/07	8/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	40	U	ug/kg dry	40	7/26/07	8/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	40	U	ug/kg dry	40	7/26/07	8/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	40	U	ug/kg dry	40	7/26/07	8/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	40	U	ug/kg dry	40	7/26/07	8/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	40	U	ug/kg dry	40	7/26/07	8/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F2 LIBRTY

D No: 44F2 A4

Sample ID: OK023-SD-001 **Lab ID:** C073006-47

Station ID: OK023

Matrix: Sediment

Date Collected: 7/18/07 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		7/26/07	8/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	38	U	ug/kg dry	38	7/26/07	8/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	38	U	ug/kg dry	38	7/26/07	8/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	38	U	ug/kg dry	38	7/26/07	8/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	38	U	ug/kg dry	38	7/26/07	8/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	38	U	ug/kg dry	38	7/26/07	8/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	38	U	ug/kg dry	38	7/26/07	8/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	38	U	ug/kg dry	38	7/26/07	8/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	38	U	ug/kg dry	38	7/26/07	8/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	38	U	ug/kg dry	38	7/26/07	8/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F9 LIBRTY

D No: 44F9 A4

Sample ID: OK551-SL-001
Station ID: OK551
Lab ID: C073006-48
Matrix: Surface Soil
Date Collected: 7/18/07 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	7.0		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	35	U	ug/kg dry	35	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	35	U	ug/kg dry	35	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	35	U	ug/kg dry	35	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	35	U	ug/kg dry	35	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	35	U	ug/kg dry	35	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	35	U	ug/kg dry	35	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	35	U	ug/kg dry	35	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	35	U	ug/kg dry	35	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	35	U	ug/kg dry	35	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G0 LIBRTY

D No: 44G0 A4

Sample ID: OK558-WA-001 **Lab ID:** C073006-49

Station ID: OK558

Matrix: Surface Soil

Date Collected: 7/18/07 17:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	39	U	ug/kg dry	39	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G1 LIBRTY

D No: 44G1 A4

Sample ID: OK552-WA-001 **Lab ID:** C073006-50

Station ID: OK552

Matrix: Surface Soil

Date Collected: 7/18/07 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	40	U	ug/kg dry	40	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	40	U	ug/kg dry	40	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	40	U	ug/kg dry	40	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	40	U	ug/kg dry	40	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	40	U	ug/kg dry	40	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	40	U	ug/kg dry	40	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	40	U	ug/kg dry	40	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	40	U	ug/kg dry	40	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	40	U	ug/kg dry	40	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G2 LIBRTY

D No: 44G2 A4

Sample ID: OK553-SL-001 **Lab ID:** C073006-51

Station ID: OK553

Matrix: Surface Soil

Date Collected: 7/18/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	37	U	ug/kg dry	37	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	37	U	ug/kg dry	37	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	37	U	ug/kg dry	37	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	37	U	ug/kg dry	37	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	37	U	ug/kg dry	37	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	37	U	ug/kg dry	37	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	37	U	ug/kg dry	37	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	37	U	ug/kg dry	37	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	37	U	ug/kg dry	37	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G3 LIBRTY

D No: 44G3 A4

Sample ID: OK554-SL-001 **Lab ID:** C073006-52

Station ID: OK554

Matrix: Surface Soil

Date Collected: 7/18/07 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/26/07	10/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	42	U, J, H-1	ug/kg dry	42	7/26/07	10/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	42	U, J, H-1	ug/kg dry	42	7/26/07	10/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	42	U, J, H-1	ug/kg dry	42	7/26/07	10/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	42	U, J, H-1	ug/kg dry	42	7/26/07	10/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	42	U, J, H-1	ug/kg dry	42	7/26/07	10/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	42	U, J, H-1	ug/kg dry	42	7/26/07	10/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	42	U, J, H-1	ug/kg dry	42	7/26/07	10/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	42	U, J, H-1	ug/kg dry	42	7/26/07	10/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	42	U, J, H-1	ug/kg dry	42	7/26/07	10/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G4 LIBRTY

D No: 44G4 A4

Sample ID: OK423-SL-001 **Lab ID:** C073006-53

Station ID: OK423

Matrix: Surface Soil

Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	41	U	ug/kg dry	41	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	41	U	ug/kg dry	41	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	41	U	ug/kg dry	41	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	41	U	ug/kg dry	41	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	41	U	ug/kg dry	41	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	41	U	ug/kg dry	41	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	41	U	ug/kg dry	41	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	41	U	ug/kg dry	41	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	41	U	ug/kg dry	41	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H0 LIBRTY

D No: 44H0 A4

Sample ID: OK015-SD-001 **Lab ID:** C073006-58

Station ID: OK015

Matrix: Sediment

Date Collected: 7/18/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	45		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	60	U	ug/kg dry	60	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	60	U	ug/kg dry	60	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	60	U	ug/kg dry	60	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	60	U	ug/kg dry	60	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	60	U	ug/kg dry	60	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	60	U	ug/kg dry	60	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	60	U	ug/kg dry	60	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	60	U	ug/kg dry	60	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	60	U	ug/kg dry	60	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H1 LIBRTY

D No: 44H1 A4

Sample ID: OK016-SD-001
Station ID: OK016

Lab ID: C073006-59
Matrix: Sediment

Date Collected: 7/18/07 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	29		%		7/26/07	8/01/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	46	U	ug/kg dry	46	7/26/07	8/01/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	46	U	ug/kg dry	46	7/26/07	8/01/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	46	U	ug/kg dry	46	7/26/07	8/01/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	46	U	ug/kg dry	46	7/26/07	8/01/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	46	U	ug/kg dry	46	7/26/07	8/01/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	46	U	ug/kg dry	46	7/26/07	8/01/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	46	U	ug/kg dry	46	7/26/07	8/01/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	46	U	ug/kg dry	46	7/26/07	8/01/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	46	U	ug/kg dry	46	7/26/07	8/01/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H2 LIBRTY

D No: 44H2 A4

Sample ID: OK016-SD-002 **Lab ID:** C073006-60

Station ID: OK016

Matrix: Sediment

Date Collected: 7/18/07 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	81		%		7/26/07	8/03/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	170	U	ug/kg dry	170	7/26/07	8/03/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	170	U	ug/kg dry	170	7/26/07	8/03/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	170	U	ug/kg dry	170	7/26/07	8/03/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	170	U	ug/kg dry	170	7/26/07	8/03/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	170	U	ug/kg dry	170	7/26/07	8/03/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	170	U	ug/kg dry	170	7/26/07	8/03/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	170	U	ug/kg dry	170	7/26/07	8/03/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	170	U	ug/kg dry	170	7/26/07	8/03/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	170	U	ug/kg dry	170	7/26/07	8/03/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H3 LIBRTY

D No: 44H3 A4

Sample ID: OK016-SD-003
Station ID: OK016
Lab ID: C073006-61
Matrix: Sediment
Date Collected: 7/18/07 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	64		%		7/26/07	8/03/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H4 LIBRTY

D No: 44H4 A4

Sample ID: OK017-SD-001
Station ID: OK017
Lab ID: C073006-62
Matrix: Sediment
Date Collected: 7/18/07 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	35		%		7/26/07	8/03/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	51	U	ug/kg dry	51	7/26/07	8/03/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	51	U	ug/kg dry	51	7/26/07	8/03/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	51	U	ug/kg dry	51	7/26/07	8/03/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	51	U	ug/kg dry	51	7/26/07	8/03/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	51	U	ug/kg dry	51	7/26/07	8/03/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	51	U	ug/kg dry	51	7/26/07	8/03/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	51	U	ug/kg dry	51	7/26/07	8/03/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	51	U	ug/kg dry	51	7/26/07	8/03/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	51	U	ug/kg dry	51	7/26/07	8/03/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H5 LIBRTY

D No: 44H5 A4

Sample ID: OK014-SD-001 **Lab ID:** C073006-63

Station ID: OK014

Matrix: Sediment

Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	63		%		7/26/07	8/03/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	88	U	ug/kg dry	88	7/26/07	8/03/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	88	U	ug/kg dry	88	7/26/07	8/03/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	88	U	ug/kg dry	88	7/26/07	8/03/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	88	U	ug/kg dry	88	7/26/07	8/03/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	88	U	ug/kg dry	88	7/26/07	8/03/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	88	U	ug/kg dry	88	7/26/07	8/03/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	88	U	ug/kg dry	88	7/26/07	8/03/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	88	U	ug/kg dry	88	7/26/07	8/03/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	88	U	ug/kg dry	88	7/26/07	8/03/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H6 LIBRTY

D No: 44H6 A4

Sample ID: OK014-SD-001D
Station ID: OK014
Lab ID: C073006-64
Matrix: Sediment
Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	64		%		7/26/07	8/03/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	91	U	ug/kg dry	91	7/26/07	8/03/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H8 LIBRTY

D No: 44H8 A4

Sample ID: OK425-SL-001
Station ID: OK425
Lab ID: C073006-65
Matrix: Surface Soil
Date Collected: 7/19/07 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	64		%		8/03/07	8/09/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	91	U	ug/kg dry	91	8/03/07	8/09/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	91	U	ug/kg dry	91	8/03/07	8/09/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	91	U	ug/kg dry	91	8/03/07	8/09/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	91	U	ug/kg dry	91	8/03/07	8/09/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	91	U	ug/kg dry	91	8/03/07	8/09/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	91	U	ug/kg dry	91	8/03/07	8/09/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	91	U	ug/kg dry	91	8/03/07	8/09/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	91	U	ug/kg dry	91	8/03/07	8/09/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	91	U	ug/kg dry	91	8/03/07	8/09/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J8 LIBRTY

D No: 44J8 A4

Sample ID: OK424-SL-001 **Lab ID:** C073006-74

Station ID: OK424

Matrix: Surface Soil

Date Collected: 7/19/07 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	75		%		8/03/07	10/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	130	U, J, H-1	ug/kg dry	130	8/03/07	10/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	130	U, J, H-1	ug/kg dry	130	8/03/07	10/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	130	U, J, H-1	ug/kg dry	130	8/03/07	10/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	130	U, J, H-1	ug/kg dry	130	8/03/07	10/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	130	U, J, H-1	ug/kg dry	130	8/03/07	10/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	130	U, J, H-1	ug/kg dry	130	8/03/07	10/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	130	U, J, H-1	ug/kg dry	130	8/03/07	10/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	130	U, J, H-1	ug/kg dry	130	8/03/07	10/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	130	U, J, H-1	ug/kg dry	130	8/03/07	10/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L2 LIBRTY

D No: 44L2 A4

Sample ID: OK027-SD-001
Station ID: OK027

Lab ID: C073006-80
Matrix: Sediment

Date Collected: 7/19/07 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		8/03/07	8/10/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L3 LIBRTY

D No: 44L3 A4

Sample ID: OK207-SD-001 **Lab ID:** C073006-81

Station ID: OK207

Matrix: Sediment

Date Collected: 7/19/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		8/03/07	8/10/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	42	U	ug/kg dry	42	8/03/07	8/10/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	42	U	ug/kg dry	42	8/03/07	8/10/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	42	U	ug/kg dry	42	8/03/07	8/10/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	42	U	ug/kg dry	42	8/03/07	8/10/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	42	U	ug/kg dry	42	8/03/07	8/10/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	42	U	ug/kg dry	42	8/03/07	8/10/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	42	U	ug/kg dry	42	8/03/07	8/10/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	42	U	ug/kg dry	42	8/03/07	8/10/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	42	U	ug/kg dry	42	8/03/07	8/10/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L4 LIBRTY

D No: 44L4 A4

Sample ID: OK207-SD-001D
Station ID: OK207

Lab ID: C073006-82
Matrix: Sediment

Date Collected: 7/19/07 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		8/03/07	10/08/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	39	U, J, H-1	ug/kg dry	39	8/03/07	10/08/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	39	U, J, H-1	ug/kg dry	39	8/03/07	10/08/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	39	U, J, H-1	ug/kg dry	39	8/03/07	10/08/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	39	U, J, H-1	ug/kg dry	39	8/03/07	10/08/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	39	U, J, H-1	ug/kg dry	39	8/03/07	10/08/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	39	U, J, H-1	ug/kg dry	39	8/03/07	10/08/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	39	U, J, H-1	ug/kg dry	39	8/03/07	10/08/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	39	U, J, H-1	ug/kg dry	39	8/03/07	10/08/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	39	U, J, H-1	ug/kg dry	39	8/03/07	10/08/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L9 LIBRTY

D No: 44L9 A4

Sample ID: OK025-SD-001
Station ID: OK025

Lab ID: C073006-85
Matrix: Sediment

Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		8/03/07	8/10/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	41	U	ug/kg dry	41	8/03/07	8/10/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M0 LIBRTY

D No: 44M0 A4

Sample ID: OK426-SL-001 **Lab ID:** C073006-86

Station ID: OK426

Matrix: Surface Soil

Date Collected: 7/19/07 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	64		%		8/02/07	8/11/07	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	88	U	ug/kg dry	88	8/02/07	8/11/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	88	U	ug/kg dry	88	8/02/07	8/11/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	88	U	ug/kg dry	88	8/02/07	8/11/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	88	U	ug/kg dry	88	8/02/07	8/11/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	88	U	ug/kg dry	88	8/02/07	8/11/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	88	U	ug/kg dry	88	8/02/07	8/11/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	88	U	ug/kg dry	88	8/02/07	8/11/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	88	U	ug/kg dry	88	8/02/07	8/11/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	88	U	ug/kg dry	88	8/02/07	8/11/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

November 6, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 07-0507, Ore Knob Mine Site
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Brian Striggow

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
PCB Aroclors (PCBA)	
PCB aroclors	CLP Aroclors

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Report Narrative for Work Order C073101, Project: 07-0507
Site Name: Ore Knob Mine Site, Jefferson, NC
Case No. 36622, Project No. 07-0507, Work Order No. C073006 & C073101
ELEMENT Nos. C073006-01 - C073006-96, C093101-01 - C093101-25, C093101-30
Sampling Dates: 07/17-19/07

Inorganic Analysis: CompuChem, Cary, NC
Date Received from Lab: 08/15/07
Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 96 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications.

ICP-AES Analysis

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

Matrix spiked sample recovery for antimony in SDG MD4497 was 7%. All sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for arsenic, cadmium, manganese, selenium, and thallium in SDG MD4497 were all outside the control limits of 75 to 125%. All sample results for arsenic, cadmium, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and zinc in SDG MD44C2 were 16 and -70% respectively. In addition, the matrix duplicate relative percent difference for zinc in SDG MD44C2 was 114%. All sample results for antimony and zinc in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony and zinc in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recovery for antimony and selenium in SDG MD44L2 were both 67%. In addition, the serial dilution percent difference for selenium in the above SDG was 15%. All sample results for antimony in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and thallium in SDG MD44E5 were 65 and 68% respectively. All sample results for antimony and thallium were considered estimated and flagged "J".

Matrix spiked sample recoveries for arsenic and lead in SDG MD44E5 were both 153%. All positive sample results for arsenic and lead in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recovery for antimony in SDG MD44C3 was 13%. All positive sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for lead, manganese, selenium, and thallium in SDG MD44C3 were all outside the control limits of 75-125%. All sample results for lead, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Performance evaluation sample (PES) recoveries for calcium and magnesium were both scored as action low. All positive sample results for calcium and magnesium were considered estimated and flagged "J". All non-detected sample results for calcium and magnesium were considered unusable and flagged "R".

Recoveries for arsenic, copper, iron, lead, nickel, and zinc in the soil PES were all scored as warning low. All sample results for arsenic, copper, iron, lead, nickel, and zinc were considered estimated and flagged "J".

Matrix duplicate relative percent differences for cobalt, copper, and zinc in SDG MD44L2 were all outside the control limits of ± 35%. In addition, the serial dilution for cobalt, copper, and zinc in the above SDG were all outside the control limits of ± 10%. All sample results for cobalt, copper, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in SDG MD4497 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for selenium in SDG MD44C2 was 20%. All sample results for selenium in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and vanadium in SDG MD44L2 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, and vanadium in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for potassium in SDG MD44E5 was 13%. All sample results for potassium in the above SDG were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures for arsenic in sample

C073006-75 and 89 and silver in sample C073006-66. The above sample results were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for arsenic in samples C073006-01, 03, 05, 12, 17, 24, 37, 38, 39, 40, 70, 71, 72, 73, and 76, beryllium in sample C073006-63, 65, 66, and 75, cadmium in samples C073006-05, 09, and 32, cobalt in sample C073006-07, selenium in samples C073006-02, 16, 17, 18, 24, 27,28, 30, 31, 34, 38, 40, and 62, silver in samples C073006-41, 44, 45, 57, 58, 65, 74, 84, 85, and 94, and thallium in samples C073006-20, 25, 55, 64, 66, 68, and 70. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Deliverables

Sample C073006-65 (MD44H8) was mislabeled as sample MD44G8 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Sample C073006-61 (MD44H3) was mislabeled as sample MD44H2 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Organic Analysis: A4 Scientific, The Woodlands, TX

The ESAT Work Team reviewed data for 26 water and 85 soil samples analyzed for volatiles, semivolatile extractables, and aroclors, per CLP statement of work SOM01.1. The samples were received by the laboratory between 07/18/07 and 07/24/07, and the final data package was received on 08/14/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The resubmission of volatile data was received on 09/04/07; the second resubmission of volatile data was received 09/14/07; the third resubmission of volatile data was received 09/20/07. The resubmission of aroclor data was received on 10/11/07, with the final submission of aroclor data received on 10/22/07.

The laboratory satisfied all technical and contractual analysis and extraction holding time limits except for the eight aroclor extracts which required sulfur removal [C073006-19 (D44C1), C073006-33 (D44D5), C073006-39 (D44E3), C073006-40 (D44E4), C073006-41 (D44E5), C073006-52 (D44G3), C073006-74 (D44J8), and C073006-82 (D44L4)]. These extracts exceeded the forty day holding time limit and all aroclor results for these samples were "J" qualified.

Target analytes dichlorodifluoromethane and trichlorofluoromethane were scored as warning low in the water volatile PES. All results for these compounds were "J" qualified in the water volatile samples. Target analyte 1,4-dioxane was scored as action low and all water volatile results, which were nondetects, were "R" qualified. Three compounds, methylene chloride, trichloroethene and methyl acetate, were scored as PES contaminants at less than the CRQL. All PES contaminants were treated as method blank contaminants during data qualification.

Target analytes 1,2-dichloroethane was originally scored as an analyte missed. The retention time for this compound is incorrect, but the same as the spiked 1,2-dichloropropane, in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed and the resubmission of data corrected the problem. Data qualification was not necessary.

The compound cis-1,3-dichloropropene was originally scored as an analyte missed and trans-1,3-dichloropropene (41 ug/l) was scored as a PES contaminant at greater than the CRQL. The retention order for these two compounds is reversed in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed of this reversal. The resubmitted data corrected this problem and data qualification was not required.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. The DMC stock solution prepared by the laboratory contains a mixture of the cis and trans isomers of 1,3-dichloropropene-d4. The DMC specified as trans-1,3-dichloropropene-d4 on the quantitation lists for instrument H-5975 should have been identified as cis-1,3-dichloropropene-d4, which is not used as a DMC in the contract method. The volatile samples analyzed with instrument H-5975 were processed using the incorrect DMC. The resubmitted data corrected this problem and data qualification was not required.

Low DMC recoveries were observed in semivolatile extractable water sample SESD No. C073101-14 (D44K5) and all compounds associated with these DMCs were "J" qualified.

Low DMC recoveries were observed in semivolatile extractable soil sample SESD Nos. C073006-06 (D44A5), C073006-18 (D44C0), D073006-35 (D44H9), D073006-39 (D44E3), D073006-40 (D44E4), D073006-41 (D44E5), D073006-49 (D44G0), D073006-63 (D44H5), D073006-66 (D44J0), D073006-69 (D44J3) D073006-71 (D44K0), D073006-79 (D44L1), D073006-86 (D44M0), D073006-88 (D44M2), D073006-90 (D44M4), D073006-91 (D44M5), and D073006-94 (D44N0). All compounds associated with these DMCs were "J" qualified.

High DMC recovery was observed for benzo-a-pyrene-d12 in semivolatile extractable soil sample SESD No. C073006-04 (D43Z2). The results for detected compounds associated with this DMC were "J" qualified.

Low recovery and poor precision was observed for acenaphthene in the water MS/MSD performed for semivolatile extractable sample SESD No. C073101-12 (D44K3). Low recovery for N-nitroso-di-n-propylamine and poor precision for 2,4-dinitrotoluene and pyrene was also observed in this MS/MSD. All results for these compounds were "J" qualified in this sample. Low recovery for N-nitroso-di-n-propylamine and acenaphthene was observed and poor precision for acenaphthene was observed in the soil MS/MSD performed for SESD No. C073006-35 (D44P9) and these results were "J" qualified. Also, low recovery was observed for N-nitroso-di-n-propylamine and pyrene in the soil MS/MSD performed for semivolatile extractable sample SESD No. C073006-66 (D44J0) and these results were "J" qualified.

Volatile and semivolatile extractable compounds which exhibited erratic continuing calibration performance were "J" qualified in the associated samples.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

SAMPLES INCLUDED IN THIS REPORT

Project: 07-0507, Ore Knob Mine Site **Contract Lab Case: 36622**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
OK024-SW-001	C073101-19		44L7	Surface Water	7/19/07 15:40	7/24/07 10:34
OK025-SW-001	C073101-30		44L8	Surface Water	7/19/07 16:50	7/24/07 10:34

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK024-SW-001
Station ID: OK024

Lab ID: C073101-19
Matrix: Surface Water

MD No:
D No: 44L7 A4

Date Collected: 7/19/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A

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D.A.R.T. Id: 07-0507

PCB Aroclors

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK025-SW-001
Station ID: OK025

Lab ID: C073101-30
Matrix: Surface Water

MD No:
D No: 44L8 A4

Date Collected: 7/19/07 16:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11104-28-2	PCB-1221 (Aroclor 1221)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11141-16-5	PCB-1232 (Aroclor 1232)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
53469-21-9	PCB-1242 (Aroclor 1242)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
12672-29-6	PCB-1248 (Aroclor 1248)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11097-69-1	PCB-1254 (Aroclor 1254)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11096-82-5	PCB-1260 (Aroclor 1260)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
37324-23-5	PCB-1262 (Aroclor 1262)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A
11100-14-4	PCB-1268 (Aroclor 1268)	1.0	U	ug/L	1.0	7/25/07	8/07/07	CLP SOM01.1 A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

November 6, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 07-0507, Ore Knob Mine Site
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Brian Striggow

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Semi Volatile Organics (SVOA)	
Semivolatile organic compounds	CLP BNA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Report Narrative for Work Order C073006, Project: 07-0507
Site Name: Ore Knob Mine Site, Jefferson, NC
Case No. 36622, Project No. 07-0507, Work Order No. C073006 & C073101
ELEMENT Nos. C073006-01 - C073006-96, C093101-01, C093101-25, C093101-30
Sampling Dates: 07/17-19/07

Inorganic Analysis: CompuChem, Cary, NC
Date Received from Lab: 08/15/07
Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 96 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications.

ICP-AES Analysis

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

Matrix spiked sample recovery for antimony in SDG MD4497 was 7%. All sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for arsenic, cadmium, manganese, selenium, and thallium in SDG MD4497 were all outside the control limits of 75 to 125%. All sample results for arsenic, cadmium, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and zinc in SDG MD44C2 were 16 and -70% respectively. In addition, the matrix duplicate relative percent difference for zinc in SDG MD44C2 was 114%. All sample results for antimony and zinc in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony and zinc in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recovery for antimony and selenium in SDG MD44L2 were both 67%. In addition, the serial dilution percent difference for selenium in the above SDG was 15%. All sample results for antimony in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and thallium in SDG MD44E5 were 65 and 68% respectively. All sample results for antimony and thallium were considered estimated and flagged "J".

Matrix spiked sample recoveries for arsenic and lead in SDG MD44E5 were both 153%. All positive sample results for arsenic and lead in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recovery for antimony in SDG MD44C3 was 13%. All positive sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for lead, manganese, selenium, and thallium in SDG MD44C3 were all outside the control limits of 75-125%. All sample results for lead, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Performance evaluation sample (PES) recoveries for calcium and magnesium were both scored as action low. All positive sample results for calcium and magnesium were considered estimated and flagged "J". All non-detected sample results for calcium and magnesium were considered unusable and flagged "R".

Recoveries for arsenic, copper, iron, lead, nickel, and zinc in the soil PES were all scored as warning low. All sample results for arsenic, copper, iron, lead, nickel, and zinc were considered estimated and flagged "J".

Matrix duplicate relative percent differences for cobalt, copper, and zinc in SDG MD44L2 were all outside the control limits of ± 35%. In addition, the serial dilution for cobalt, copper, and zinc in the above SDG were all outside the control limits of ± 10%. All sample results for cobalt, copper, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in SDG MD4497 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for selenium in SDG MD44C2 was 20%. All sample results for selenium in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and vanadium in SDG MD44L2 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, and vanadium in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for potassium in SDG MD44E5 was 13%. All sample results for potassium in the above SDG were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures for arsenic in sample

C073006-75 and 89 and silver in sample C073006-66. The above sample results were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for arsenic in samples C073006-01, 03, 05, 12, 17, 24, 37, 38, 39, 40, 70, 71, 72, 73, and 76, beryllium in sample C073006-63, 65, 66, and 75, cadmium in samples C073006-05, 09, and 32, cobalt in sample C073006-07, selenium in samples C073006-02, 16, 17, 18, 24, 27,28, 30, 31, 34, 38, 40, and 62, silver in samples C073006-41, 44, 45, 57, 58, 65, 74, 84, 85, and 94, and thallium in samples C073006-20, 25, 55, 64, 66, 68, and 70. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Deliverables

Sample C073006-65 (MD44H8) was mislabeled as sample MD44G8 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Sample C073006-61 (MD44H3) was mislabeled as sample MD44H2 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Organic Analysis: A4 Scientific, The Woodlands, TX

The ESAT Work Team reviewed data for 26 water and 85 soil samples analyzed for volatiles, semivolatile extractables, and aroclors, per CLP statement of work SOM01.1. The samples were received by the laboratory between 07/18/07 and 07/24/07, and the final data package was received on 08/14/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The resubmission of volatile data was received on 09/04/07; the second resubmission of volatile data was received 09/14/07; the third resubmission of volatile data was received 09/20/07. The resubmission of aroclor data was received on 10/11/07, with the final submission of aroclor data received on 10/22/07.

The laboratory satisfied all technical and contractual analysis and extraction holding time limits except for the eight aroclor extracts which required sulfur removal [C073006-19 (D44C1), C073006-33 (D44D5), C073006-39 (D44E3), C073006-40 (D44E4), C073006-41 (D44E5), C073006-52 (D44G3), C073006-74 (D44J8), and C073006-82 (D44L4)]. These extracts exceeded the forty day holding time limit and all aroclor results for these samples were "J" qualified.

Target analytes dichlorodifluoromethane and trichlorofluoromethane were scored as warning low in the water volatile PES. All results for these compounds were "J" qualified in the water volatile samples. Target analyte 1,4-dioxane was scored as action low and all water volatile results, which were nondetects, were "R" qualified. Three compounds, methylene chloride, trichloroethene and methyl acetate, were scored as PES contaminants at less than the CRQL. All PES contaminants were treated as method blank contaminants during data qualification.

Target analytes 1,2-dichloroethane was originally scored as an analyte missed. The retention time for this compound is incorrect, but the same as the spiked 1,2-dichloropropane, in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed and the resubmission of data corrected the problem. Data qualification was not necessary.

The compound cis-1,3-dichloropropene was originally scored as an analyte missed and trans-1,3-dichloropropene (41 ug/l) was scored as a PES contaminant at greater than the CRQL. The retention order for these two compounds is reversed in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed of this reversal. The resubmitted data corrected this problem and data qualification was not required.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. The DMC stock solution prepared by the laboratory contains a mixture of the cis and trans isomers of 1,3-dichloropropene-d4. The DMC specified as trans-1,3-dichloropropene-d4 on the quantitation lists for instrument H-5975 should have been identified as cis-1,3-dichloropropene-d4, which is not used as a DMC in the contract method. The volatile samples analyzed with instrument H-5975 were processed using the incorrect DMC. The resubmitted data corrected this problem and data qualification was not required.

Low DMC recoveries were observed in semivolatile extractable water sample SESD No. C073101-14 (D44K5) and all compounds associated with these DMCs were "J" qualified.

Low DMC recoveries were observed in semivolatile extractable soil sample SESD Nos. C073006-06 (D44A5), C073006-18 (D44C0), D073006-35 (D44H9), D073006-39 (D44E3), D073006-40 (D44E4), D073006-41 (D44E5), D073006-49 (D44G0), D073006-63 (D44H5), D073006-66 (D44J0), D073006-69 (D44J3) D073006-71 (D44K0), D073006-79 (D44L1), D073006-86 (D44M0), D073006-88 (D44M2), D073006-90 (D44M4), D073006-91 (D44M5), and D073006-94 (D44N0). All compounds associated with these DMCs were "J" qualified.

High DMC recovery was observed for benzo-a-pyrene-d12 in semivolatile extractable soil sample SESD No. C073006-04 (D43Z2). The results for detected compounds associated with this DMC were "J" qualified.

Low recovery and poor precision was observed for acenaphthene in the water MS/MSD performed for semivolatile extractable sample SESD No. C073101-12 (D44K3). Low recovery for N-nitroso-di-n-propylamine and poor precision for 2,4-dinitrotoluene and pyrene was also observed in this MS/MSD. All results for these compounds were "J" qualified in this sample. Low recovery for N-nitroso-di-n-propylamine and acenaphthene was observed and poor precision for acenaphthene was observed in the soil MS/MSD performed for SESD No. C073006-35 (D44P9) and these results were "J" qualified. Also, low recovery was observed for N-nitroso-di-n-propylamine and pyrene in the soil MS/MSD performed for semivolatile extractable sample SESD No. C073006-66 (D44J0) and these results were "J" qualified.

Volatile and semivolatile extractable compounds which exhibited erratic continuing calibration performance were "J" qualified in the associated samples.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

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D.A.R.T. Id: 07-0507

SAMPLES INCLUDED IN THIS REPORT

Project: 07-0507, Ore Knob Mine Site **Contract Lab Case: 36622**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
OK400-SL-001	C073006-01	4499	4499	Surface Soil	7/17/07 12:05	7/24/07 07:36
OK401-SL-001	C073006-02	44A0	44A0	Surface Soil	7/17/07 11:00	7/24/07 07:36
OK402-SL-001	C073006-03	44A1	44A1	Surface Soil	7/17/07 12:35	7/24/07 07:36
OK411-SL-001	C073006-04	44A3	44A3	Surface Soil	7/17/07 16:04	7/24/07 07:36
OK412-SL-001	C073006-05	44A4	44A4	Surface Soil	7/17/07 10:25	7/24/07 07:36
OK026-SD-001	C073006-06	44A5	44A5	Sediment	7/17/07 11:45	7/24/07 07:36
OK026-SD-002	C073006-07	44A6	44A6	Sediment	7/17/07 12:10	7/24/07 07:36
OK019-SD-003	C073006-08	44A7	44A7	Sediment	7/17/07 12:50	7/24/07 07:36
OK018-SD-001	C073006-16	44B8	44B8	Sediment	7/17/07 17:05	7/24/07 07:36
OK018-SD-002	C073006-17	44B9	44B9	Sediment	7/17/07 17:15	7/24/07 07:36
OK018-SD-003	C073006-18	44C0	44C0	Sediment	7/17/07 17:25	7/24/07 07:36
OK417-SL-001	C073006-19	44C1	44C1	Surface Soil	7/18/07 17:35	7/24/07 07:36
OK415-SL-001	C073006-20	44C2	44C2	Surface Soil	7/18/07 16:25	7/24/07 07:36
OK019-SD-001	C073006-21	44C3	44C3	Sediment	7/17/07 15:05	7/24/07 07:36
OK019-SD-002	C073006-22	44C4	44C4	Sediment	7/17/07 15:00	7/24/07 07:36
OK204-SL-001	C073006-23	44C5	44C5	Surface Soil	7/17/07 16:15	7/24/07 07:36
OK205-SL-001	C073006-24	44C6	44C6	Surface Soil	7/17/07 15:50	7/24/07 07:36
OK200-SL-001	C073006-25	44C7	44C7	Surface Soil	7/17/07 18:05	7/24/07 07:36
OK201-SL-001	C073006-26	44C8	44C8	Surface Soil	7/17/07 17:48	7/24/07 07:36
OK202-SL-001	C073006-27	44C9	44C9	Surface Soil	7/17/07 16:55	7/24/07 07:36
OK203-SL-001	C073006-28	44D0	44D0	Surface Soil	7/17/07 17:13	7/24/07 07:36
OK020-SD-001	C073006-29	44D1	44D1	Sediment	7/17/07 15:45	7/24/07 07:36
OK300-WA-001	C073006-30	44D2	44D2	Surface Soil	7/17/07 17:25	7/24/07 07:36
OK301-WA-001	C073006-31	44D3	44D3	Surface Soil	7/17/07 18:00	7/24/07 07:36
OK352-WA-001	C073006-33	44D5	44D5	Surface Soil	7/17/07 16:55	7/24/07 07:36
OK408-SL-001	C073006-34	44D8	44D8	Surface Soil	7/18/07 08:40	7/24/07 07:36
OK414-SL-001	C073006-35	44D9	44D9	Surface Soil	7/18/07 09:50	7/24/07 07:36
OK414-SL-001D	C073006-36	44E0	44E0	Surface Soil	7/18/07 09:50	7/24/07 07:36
OK419-SL-001	C073006-37	44E1	44E1	Surface Soil	7/18/07 12:20	7/24/07 07:36
OK416-SL-001	C073006-38	44E2	44E2	Surface Soil	7/18/07 12:45	7/24/07 07:36
OK413-SL-001	C073006-39	44E3	44E3	Surface Soil	7/18/07 11:35	7/24/07 07:36
OK418-SL-001	C073006-40	44E4	44E4	Surface Soil	7/18/07 09:15	7/24/07 07:36
OK427-SD-001	C073006-41	44E5	44E5	Sediment	7/17/07 09:29	7/24/07 07:36
OK555-WA-001	C073006-43	44E7	44E7	Surface Soil	7/18/07 11:25	7/24/07 07:36

OK021-SD-001	C073006-44	44E8	44E8	Sediment	7/18/07 10:20	7/24/07 07:36
OK024-SD-001	C073006-45	44E9	44E9	Sediment	7/18/07 11:00	7/24/07 07:36
OK022-SD-001	C073006-46	44F1	44F1	Sediment	7/18/07 09:45	7/24/07 07:36
OK023-SD-001	C073006-47	44F2	44F2	Sediment	7/18/07 10:35	7/24/07 07:36
OK551-SL-001	C073006-48	44F9	44F9	Surface Soil	7/18/07 13:45	7/24/07 07:36
OK558-WA-001	C073006-49	44G0	44G0	Surface Soil	7/18/07 17:45	7/24/07 07:36
OK552-WA-001	C073006-50	44G1	44G1	Surface Soil	7/18/07 13:10	7/24/07 07:36
OK553-SL-001	C073006-51	44G2	44G2	Surface Soil	7/18/07 15:45	7/24/07 07:36
OK554-SL-001	C073006-52	44G3	44G3	Surface Soil	7/18/07 14:30	7/24/07 07:36
OK423-SL-001	C073006-53	44G4	44G4	Surface Soil	7/18/07 16:25	7/24/07 07:36
OK015-SD-001	C073006-58	44H0	44H0	Sediment	7/18/07 17:15	7/24/07 07:36
OK016-SD-001	C073006-59	44H1	44H1	Sediment	7/18/07 15:55	7/24/07 07:36
OK016-SD-002	C073006-60	44H2	44H2	Sediment	7/18/07 16:05	7/24/07 07:36
OK016-SD-003	C073006-61	44H3	44H3	Sediment	7/18/07 16:10	7/24/07 07:36
OK017-SD-001	C073006-62	44H4	44H4	Sediment	7/18/07 14:10	7/24/07 07:36
OK014-SD-001	C073006-63	44H5	44H5	Sediment	7/18/07 18:15	7/24/07 07:36
OK014-SD-001D	C073006-64	44H6	44H6	Sediment	7/18/07 18:15	7/24/07 07:36
OK425-SL-001	C073006-65	44H8	44H8	Surface Soil	7/19/07 08:35	7/24/07 07:36
OK520-SL-001	C073006-66	44J0	44J0	Surface Soil	7/19/07 09:25	7/24/07 07:36
OK512-SL-001	C073006-67	44J1	44J1	Surface Soil	7/19/07 08:25	7/24/07 07:36
OK513-SL-001	C073006-68	44J2	44J2	Surface Soil	7/19/07 09:05	7/24/07 07:36
OK513-SL-001D	C073006-69	44J3	44J3	Surface Soil	7/19/07 09:15	7/24/07 07:36
OK514-SL-001	C073006-70	44J4	44J4	Surface Soil	7/19/07 09:30	7/24/07 07:36
OK501-SL-001	C073006-71	44J5	44J5	Surface Soil	7/19/07 11:45	7/24/07 07:36
OK511-SL-001	C073006-73	44J7	44J7	Surface Soil	7/19/07 08:40	7/24/07 07:36
OK424-SL-001	C073006-74	44J8	44J8	Surface Soil	7/19/07 10:15	7/24/07 07:36
OK422-SL-001	C073006-75	44J9	44J9	Surface Soil	7/19/07 09:25	7/24/07 07:36
OK001-SD-001	C073006-76	44K0	44K0	Sediment	7/19/07 09:25	7/24/07 07:36
OK002-SD-001	C073006-77	44K1	44K1	Sediment	7/19/07 10:35	7/24/07 07:36
OK013-SD-001	C073006-78	44L0	44L0	Sediment	7/19/07 13:20	7/24/07 07:36
OK013-SD-001D	C073006-79	44L1	44L1	Sediment	7/19/07 13:25	7/24/07 07:36
OK027-SD-001	C073006-80	44L2	44L2	Sediment	7/19/07 09:05	7/24/07 07:36
OK207-SD-001	C073006-81	44L3	44L3	Sediment	7/19/07 13:30	7/24/07 07:36
OK207-SD-001D	C073006-82	44L4	44L4	Sediment	7/19/07 13:35	7/24/07 07:36
OK407-SD-001	C073006-83	44L5	44L5	Sediment	7/19/07 13:00	7/24/07 07:36
OK421-SD-001	C073006-84	44L6	44L6	Sediment	7/19/07 14:45	7/24/07 07:36
OK025-SD-001	C073006-85	44L9	44L9	Sediment	7/19/07 17:10	7/24/07 07:36
OK426-SL-001	C073006-86	44M0	44M0	Surface Soil	7/19/07 16:00	7/24/07 07:36
OK517-SL-001	C073006-87	44M1	44M1	Surface Soil	7/19/07 16:30	7/24/07 07:36
OK517-SL-001D	C073006-88	44M2	44M2	Surface Soil	7/19/07 16:40	7/24/07 07:36

OK519-SL-001	C073006-89	44M3	44M3	Surface Soil	7/19/07 14:45	7/24/07 07:36
OK556-WA-001	C073006-90	44M4	44M4	Surface Soil	7/19/07 16:40	7/24/07 07:36
OK500-SL-001	C073006-91	44M5	44M5	Surface Soil	7/19/07 17:30	7/24/07 07:36
OK518-SL-001	C073006-92	44M6	44M6	Surface Soil	7/19/07 15:10	7/24/07 07:36
OK515-SL-001	C073006-93	44M7	44M7	Surface Soil	7/19/07 17:10	7/24/07 07:36
OK406-SL-001	C073006-94	44N0	44N0	Surface Soil	7/19/07 17:15	7/24/07 07:36
OK502-SL-001	C073006-95	44N1	44N1	Surface Soil	7/19/07 18:10	7/24/07 07:36
OK004-SD-001	C073006-96	44N3	44N3	Sediment	7/19/07 17:55	7/24/07 07:36
OK026-SW-001	C073006-97		44B5	Surface Water	7/17/07 12:32	7/24/07 07:36
OK026-SW-002	C073006-98		44B6	Surface Water	7/17/07 13:10	7/24/07 07:36
OK026-SW-003	C073006-99		44B7	Surface Water	7/17/07 12:25	7/24/07 07:36

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte low in continuing calibration verification standard
QC-2	Analyte high in continuing calibration verification standard
QI-1	Internal standard was outside of method control limits.
QM-1	Matrix Spike Recovery less than method control limits
QM-3	Matrix Spike Precision outside method control limits
QS-2	Surrogate recovery can't be accurately calculated due to interference from coeluting organic compounds.
QS-3	Surrogate recovery is lower than established control limits.
QS-4	Surrogate recovery less than 10%
QS-5	Surrogate recovery is higher than established control limits

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 4499 LIBRTY

D No: 4499 A4

Sample ID: OK400-SL-001
Station ID: OK400

Lab ID: C073006-01
Matrix: Surface Soil

Date Collected: 7/17/07 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		7/30/07	8/02/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	430	U	ug/kg dry	430	7/30/07	8/02/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	7/30/07	8/02/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	7/30/07	8/02/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	7/30/07	8/02/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	7/30/07	8/02/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	7/30/07	8/02/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 4499 LIBRTY
D No: 4499 A4

Sample ID: OK400-SL-001
Station ID: OK400
Lab ID: C073006-01
Matrix: Surface Soil
Date Collected: 7/17/07 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U, J, QC-2	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 4499 LIBRTY

D No: 4499 A4

Sample ID: OK400-SL-001 **Lab ID:** C073006-01

Station ID: OK400

Matrix: Surface Soil

Date Collected: 7/17/07 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	7/30/07	8/02/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U	ug/kg dry	220	7/30/07	8/02/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	3000	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
77899-03-7	1-Heneicosyl formate	3000	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
103-82-2	Benzeneacetic acid	2000	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
1617-70-5	Lup-20(29)-en-3-one	400	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
545-47-1	Lupeol	3000	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	2000	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
7390-81-0	Oxirane, hexadecyl-	500	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/30/07	8/02/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	600	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	20000	J	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
1000131-11-8	Z-5-Nonadecene	1000	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A0 LIBRTY

D No: 44A0 A4

Sample ID: OK401-SL-001
Station ID: OK401

Lab ID: C073006-02
Matrix: Surface Soil

Date Collected: 7/17/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A0 LIBRTY

D No: 44A0 A4

Sample ID: OK401-SL-001
Station ID: OK401

Lab ID: C073006-02
Matrix: Surface Soil

Date Collected: 7/17/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	120	J, CLP01	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U, J, QC-2	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A0 LIBRTY

D No: 44A0 A4

Sample ID: OK401-SL-001 **Lab ID:** C073006-02

Station ID: OK401

Matrix: Surface Soil

Date Collected: 7/17/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1454-85-9	1-Heptadecanol	3000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
18435-45-5	1-Nonadecene	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
17600-99-6	2-Nonacosanone	600	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
103-82-2	Benzeneacetic acid	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
544-77-4	Hexadecane, 1-iodo-	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
545-47-1	Lupeol	3000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
119-36-8	Methyl Salicylate	500	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
557-61-9	Octacosanol	1000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
638-66-4	Octadecanal	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	900	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
7390-81-0	Oxirane, hexadecyl-	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/30/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	700	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	6000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A1 LIBRTY
D No: 44A1 A4

Sample ID: OK402-SL-001
Station ID: OK402
Lab ID: C073006-03
Matrix: Surface Soil
Date Collected: 7/17/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A1 LIBRTY
D No: 44A1 A4

Sample ID: OK402-SL-001
Station ID: OK402
Lab ID: C073006-03
Matrix: Surface Soil
Date Collected: 7/17/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U, J, QC-2	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A1 LIBRTY

D No: 44A1 A4

Sample ID: OK402-SL-001 **Lab ID:** C073006-03

Station ID: OK402

Matrix: Surface Soil

Date Collected: 7/17/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	700	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
56221-91-1	13-Tetradecen-1-ol acetate	700	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
112-92-5	1-Octadecanol	1000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
17600-99-6	2-Nonacosanone	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1000214-17-4	5-Cholestene-3-ol, 24-methyl-	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	600	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	8000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A3 LIBRTY

D No: 44A3 A4

Sample ID: OK411-SL-001
Station ID: OK411

Lab ID: C073006-04
Matrix: Surface Soil

Date Collected: 7/17/07 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A3 LIBRTY

D No: 44A3 A4

Sample ID: OK411-SL-001
Station ID: OK411

Lab ID: C073006-04
Matrix: Surface Soil

Date Collected: 7/17/07 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	44	J, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	69	J, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	60	J, QS-5, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	J, QS-5, QC-2, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	40	J, QS-5, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	170	J, QS-5, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	42	J, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	34	J, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	200		ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U, J, QC-2	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	390		ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	55	J, QS-5, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A3 LIBRTY

D No: 44A3 A4

Sample ID: OK411-SL-001 **Lab ID:** C073006-04

Station ID: OK411 **Matrix:** Surface Soil

Date Collected: 7/17/07 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	110	J, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	270		ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	3000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	4000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
822-26-4	1-Docosanol, acetate	1000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
112-92-5	1-Octadecanol	900	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
18835-32-0	1-Tricosene	1000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
17600-99-6	2-Nonacosanone	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
74685-33-9	3-Eicosene, (E)-	1000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
112-79-8	9-Octadecenoic acid, (E)-	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
103-82-2	Benzeneacetic acid	700	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
474-62-4	Campesterol	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	600	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
7390-81-0	Oxirane, hexadecyl-	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1985-5-0	Perylene	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/30/07	8/03/07	CLP SOM01.1 B
1059-14-9	Taraxasterol	700	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	5000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A4 LIBRTY

D No: 44A4 A4

Sample ID: OK412-SL-001
Station ID: OK412

Lab ID: C073006-05
Matrix: Surface Soil

Date Collected: 7/17/07 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A4 LIBRTY
D No: 44A4 A4

Sample ID: OK412-SL-001
Station ID: OK412
Lab ID: C073006-05
Matrix: Surface Soil
Date Collected: 7/17/07 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	31	J, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	86	J, CLP01	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U, J, QC-2	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A4 LIBRTY

D No: 44A4 A4

Sample ID: OK412-SL-001 **Lab ID:** C073006-05

Station ID: OK412

Matrix: Surface Soil

Date Collected: 7/17/07 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U	ug/kg dry	190	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
53057-53-7	1,21-Docosadiene	600	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
18435-45-5	1-Nonadecene	900	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
593-50-0	1-Triacontanol	500	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
54934-55-3	2,3-Nonadecanediol	400	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
27519-02-4	9-Tricosene, (Z)-	600	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
103-82-2	Benzeneacetic acid	1000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
57-10-3	n-Hexadecanoic acid	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	1000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	4000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A5 LIBRTY

D No: 44A5 A4

Sample ID: OK026-SD-001
Station ID: OK026

Lab ID: C073006-06
Matrix: Sediment

Date Collected: 7/17/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A5 LIBRTY

D No: 44A5 A4

Sample ID: OK026-SD-001
Station ID: OK026

Lab ID: C073006-06
Matrix: Sediment

Date Collected: 7/17/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	210	U, J, QC-2	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U, J, QS-3	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A5 LIBRTY

D No: 44A5 A4

Sample ID: OK026-SD-001 **Lab ID:** C073006-06

Station ID: OK026 **Matrix:** Sediment

Date Collected: 7/17/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:	N, CLP15				7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A6 LIBRTY

D No: 44A6 A4

Sample ID: OK026-SD-002
Station ID: OK026

Lab ID: C073006-07
Matrix: Sediment

Date Collected: 7/17/07 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A6 LIBRTY

D No: 44A6 A4

Sample ID: OK026-SD-002
Station ID: OK026

Lab ID: C073006-07
Matrix: Sediment

Date Collected: 7/17/07 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U, J, QC-2	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A6 LIBRTY

D No: 44A6 A4

Sample ID: OK026-SD-002 **Lab ID:** C073006-07

Station ID: OK026 **Matrix:** Sediment

Date Collected: 7/17/07 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	500	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A7 LIBRTY

D No: 44A7 A4

Sample ID: OK019-SD-003
Station ID: OK019

Lab ID: C073006-08
Matrix: Sediment

Date Collected: 7/17/07 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	430	U	ug/kg dry	430	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A7 LIBRTY
D No: 44A7 A4

Sample ID: OK019-SD-003
Station ID: OK019
Lab ID: C073006-08
Matrix: Sediment
Date Collected: 7/17/07 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U, J, QC-2	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A7 LIBRTY

D No: 44A7 A4

Sample ID: OK019-SD-003 **Lab ID:** C073006-08

Station ID: OK019 **Matrix:** Sediment

Date Collected: 7/17/07 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U	ug/kg dry	220	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:	N, CLP15				7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44B8 LIBRTY

D No: 44B8 A4

Sample ID: OK018-SD-001
Station ID: OK018

Lab ID: C073006-16
Matrix: Sediment

Date Collected: 7/17/07 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	29		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44B8 LIBRTY
D No: 44B8 A4

Sample ID: OK018-SD-001
Station ID: OK018

Lab ID: C073006-16
Matrix: Sediment

Date Collected: 7/17/07 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	240	U, J, QC-2	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	240	U, J, QC-2	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44B8 LIBRTY

D No: 44B8 A4

Sample ID: OK018-SD-001 **Lab ID:** C073006-16

Station ID: OK018 **Matrix:** Sediment

Date Collected: 7/17/07 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	800	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
7735-42-4	1,16-Hexadecanediol	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
18435-45-5	1-Nonadecene	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
629-78-7	Heptadecane	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
630-03-5	Nonacosane	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
638-66-4	Octadecanal	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44B9 LIBRTY

D No: 44B9 A4

Sample ID: OK018-SD-002
Station ID: OK018

Lab ID: C073006-17
Matrix: Sediment

Date Collected: 7/17/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	33		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	250	U, J, QC-2	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	480	U	ug/kg dry	480	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	480	U	ug/kg dry	480	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	480	U	ug/kg dry	480	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	480	U	ug/kg dry	480	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	480	U	ug/kg dry	480	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	480	U	ug/kg dry	480	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44B9 LIBRTY

D No: 44B9 A4

Sample ID: OK018-SD-002
Station ID: OK018

Lab ID: C073006-17
Matrix: Sediment

Date Collected: 7/17/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	250	U, J, QC-2	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44B9 LIBRTY

D No: 44B9 A4

Sample ID: OK018-SD-002 **Lab ID:** C073006-17

Station ID: OK018 **Matrix:** Sediment

Date Collected: 7/17/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	480	U	ug/kg dry	480	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	250	U	ug/kg dry	250	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
638-95-9	.alpha.-Amyrin	700	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
83-46-5	.beta.-Sitosterol	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/25/07	8/03/07	CLP SOM01.1 B
7683-64-9	Squalene	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	4000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C0 LIBRTY

D No: 44C0 A4

Sample ID: OK018-SD-003
Station ID: OK018

Lab ID: C073006-18
Matrix: Sediment

Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U, J, QC-2	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	430	U	ug/kg dry	430	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C0 LIBRTY

D No: 44C0 A4

Sample ID: OK018-SD-003
Station ID: OK018

Lab ID: C073006-18
Matrix: Sediment

Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U, J, QC-2	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C0 LIBRTY

D No: 44C0 A4

Sample ID: OK018-SD-003 **Lab ID:** C073006-18

Station ID: OK018 **Matrix:** Sediment

Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U, J, QS-3	ug/kg dry	220	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C1 LIBRTY

D No: 44C1 A4

Sample ID: OK417-SL-001
Station ID: OK417

Lab ID: C073006-19
Matrix: Surface Soil

Date Collected: 7/18/07 17:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C1 LIBRTY

D No: 44C1 A4

Sample ID: OK417-SL-001
Station ID: OK417

Lab ID: C073006-19
Matrix: Surface Soil

Date Collected: 7/18/07 17:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	34	J, QC-2, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	35	J, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U, J, QC-2	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C1 LIBRTY

D No: 44C1 A4

Sample ID: OK417-SL-001
Station ID: OK417

Lab ID: C073006-19
Matrix: Surface Soil

Date Collected: 7/18/07 17:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1000144-57-9	16-Heptadecenal	2000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1599-67-3	1-Docosene	1000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
18435-45-5	1-Nonadecene	1000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
112-92-5	1-Octadecanol	1000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
112-95-8	Eicosane	600	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
559-74-0	Friedelan-3-one	2000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
57-10-3	n-Hexadecanoic acid	800	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
638-66-4	Octadecanal	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl- (01)	900	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	700	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
19466-47-8	Stigmastanol	600	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
83-48-7	Stigmasterol	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	4000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C2 LIBRTY

D No: 44C2 A4

Sample ID: OK415-SL-001
Station ID: OK415

Lab ID: C073006-20
Matrix: Surface Soil

Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U, J, QC-2	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C2 LIBRTY

D No: 44C2 A4

Sample ID: OK415-SL-001
Station ID: OK415

Lab ID: C073006-20
Matrix: Surface Soil

Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	29	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	36	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	27	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	26	J, QC-2, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	29	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C2 LIBRTY

D No: 44C2 A4

Sample ID: OK415-SL-001 **Lab ID:** C073006-20

Station ID: OK415 **Matrix:** Surface Soil

Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	600	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C3 LIBRTY

D No: 44C3 A4

Sample ID: OK019-SD-001
Station ID: OK019

Lab ID: C073006-21
Matrix: Sediment

Date Collected: 7/17/07 15:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	450	U	ug/kg dry	450	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	450	U	ug/kg dry	450	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	450	U	ug/kg dry	450	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	450	U	ug/kg dry	450	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	450	U	ug/kg dry	450	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	450	U	ug/kg dry	450	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C3 LIBRTY
D No: 44C3 A4

Sample ID: OK019-SD-001
Station ID: OK019
Lab ID: C073006-21
Matrix: Sediment
Date Collected: 7/17/07 15:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	230	U, J, QC-2	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C3 LIBRTY

D No: 44C3 A4

Sample ID: OK019-SD-001 **Lab ID:** C073006-21

Station ID: OK019 **Matrix:** Sediment

Date Collected: 7/17/07 15:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	450	U	ug/kg dry	450	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
2416-20-8	Hexadecenoic acid, Z-11-	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
7683-64-9	Squalene	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C4 LIBRTY

D No: 44C4 A4

Sample ID: OK019-SD-002
Station ID: OK019

Lab ID: C073006-22
Matrix: Sediment

Date Collected: 7/17/07 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C4 LIBRTY

D No: 44C4 A4

Sample ID: OK019-SD-002
Station ID: OK019

Lab ID: C073006-22
Matrix: Sediment

Date Collected: 7/17/07 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	210	U, J, QC-2	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U, J, QC-2	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C4 LIBRTY

D No: 44C4 A4

Sample ID: OK019-SD-002 **Lab ID:** C073006-22

Station ID: OK019 **Matrix:** Sediment

Date Collected: 7/17/07 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	900	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C5 LIBRTY

D No: 44C5 A4

Sample ID: OK204-SL-001
Station ID: OK204

Lab ID: C073006-23
Matrix: Surface Soil

Date Collected: 7/17/07 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C5 LIBRTY

D No: 44C5 A4

Sample ID: OK204-SL-001

Station ID: OK204

Lab ID: C073006-23

Matrix: Surface Soil

Date Collected: 7/17/07 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	180	J, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	22	J, QC-2, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	22	J, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U, J, QC-2	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C5 LIBRTY

D No: 44C5 A4

Sample ID: OK204-SL-001 **Lab ID:** C073006-23

Station ID: OK204 **Matrix:** Surface Soil

Date Collected: 7/17/07 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	1000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1599-67-3	1-Docosene	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
18435-45-5	1-Nonadecene	800	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
25276-70-4	1-Pentadecanethiol	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
112-95-8	Eicosane	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	3000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C6 LIBRTY

D No: 44C6 A4

Sample ID: OK205-SL-001
Station ID: OK205

Lab ID: C073006-24
Matrix: Surface Soil

Date Collected: 7/17/07 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C6 LIBRTY

D No: 44C6 A4

Sample ID: OK205-SL-001
Station ID: OK205

Lab ID: C073006-24
Matrix: Surface Soil

Date Collected: 7/17/07 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	210	U, J, QC-2	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U, J, QC-2	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C6 LIBRTY

D No: 44C6 A4

Sample ID: OK205-SL-001 **Lab ID:** C073006-24

Station ID: OK205 **Matrix:** Surface Soil

Date Collected: 7/17/07 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
40710-42-7	1-Hentetracontanol	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
630-02-4	Octacosane	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
593-45-3	Octadecane	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
7390-81-0	Oxirane, hexadecyl-	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	1000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1000131-11-8	Z-5-Nonadecene	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C7 LIBRTY

D No: 44C7 A4

Sample ID: OK200-SL-001
Station ID: OK200

Lab ID: C073006-25
Matrix: Surface Soil

Date Collected: 7/17/07 18:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U, J, QC-2	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C7 LIBRTY
D No: 44C7 A4

Sample ID: OK200-SL-001
Station ID: OK200
Lab ID: C073006-25
Matrix: Surface Soil
Date Collected: 7/17/07 18:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U, J, QC-2	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C7 LIBRTY

D No: 44C7 A4

Sample ID: OK200-SL-001 **Lab ID:** C073006-25

Station ID: OK200

Matrix: Surface Soil

Date Collected: 7/17/07 18:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	800	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1599-67-3	1-Docosene	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
74685-30-6	5-Eicosene, (E)- (01)	2000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
112-85-6	Docosanoic acid	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
629-78-7	Heptadecane	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
630-03-5	Nonacosane	600	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	900	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
557-59-5	Tetracosanoic acid	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
124-25-4	Tetradecanal	600	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	10000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C8 LIBRTY
D No: 44C8 A4

Sample ID: OK201-SL-001
Station ID: OK201
Lab ID: C073006-26
Matrix: Surface Soil
Date Collected: 7/17/07 17:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	31		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	470	U	ug/kg dry	470	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	470	U	ug/kg dry	470	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	470	U	ug/kg dry	470	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	470	U	ug/kg dry	470	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	470	U	ug/kg dry	470	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	470	U	ug/kg dry	470	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C8 LIBRTY
D No: 44C8 A4

Sample ID: OK201-SL-001
Station ID: OK201

Lab ID: C073006-26
Matrix: Surface Soil

Date Collected: 7/17/07 17:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	240	U, J, QC-2	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C8 LIBRTY

D No: 44C8 A4

Sample ID: OK201-SL-001 **Lab ID:** C073006-26

Station ID: OK201

Matrix: Surface Soil

Date Collected: 7/17/07 17:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	470	U	ug/kg dry	470	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	240	U	ug/kg dry	240	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
14811-95-1	1,19-Eicosadiene	4000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
22513-81-1	1,22-Docosanediol	6000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
95008-11-0	10-Heneicosene (c,t)	4000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
56554-86-0	17-Octadecenal	5000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1599-67-3	1-Docosene	6000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
18835-32-0	1-Tricosene	500	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
22611-26-3	D:C-Friedoolean-8-en-3-one	50000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
3186-72-9	Lupan-3-one	3000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
630-03-5	Nonacosane	3000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
471-68-1	Olean-12-ene	900	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
7390-81-0	Oxirane, hexadecyl-	600	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/30/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	3000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1000214-20-7	Stigmasterol, 22,23-dihydro-	4000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	100000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C9 LIBRTY

D No: 44C9 A4

Sample ID: OK202-SL-001
Station ID: OK202

Lab ID: C073006-27
Matrix: Surface Soil

Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	440	U	ug/kg dry	440	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	45	J, CLP01	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44C9 LIBRTY
D No: 44C9 A4

Sample ID: OK202-SL-001
Station ID: OK202
Lab ID: C073006-27
Matrix: Surface Soil
Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	230	U, J, QC-2	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44C9 LIBRTY

D No: 44C9 A4

Sample ID: OK202-SL-001
Station ID: OK202

Lab ID: C073006-27
Matrix: Surface Soil

Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	230	U	ug/kg dry	230	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
6971-40-0	17-Pentatriacontene	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
593-50-0	1-Triacontanol	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1617-70-5	Lup-20(29)-en-3-one	1000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	500	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	20000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D0 LIBRTY

D No: 44D0 A4

Sample ID: OK203-SL-001
Station ID: OK203

Lab ID: C073006-28
Matrix: Surface Soil

Date Collected: 7/17/07 17:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D0 LIBRTY

D No: 44D0 A4

Sample ID: OK203-SL-001
Station ID: OK203

Lab ID: C073006-28
Matrix: Surface Soil

Date Collected: 7/17/07 17:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	100	J, CLP01	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U, J, QC-2	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U, J, QC-2	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D0 LIBRTY

D No: 44D0 A4

Sample ID: OK203-SL-001 **Lab ID:** C073006-28

Station ID: OK203 **Matrix:** Surface Soil

Date Collected: 7/17/07 17:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1599-67-3	1-Docosene	400	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
38775-38-1	1-Hexadecanesulfonyl chloride	700	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1000214-17-4	5-Cholestene-3-ol, 24-methyl-	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
629-97-0	Docosane	900	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
630-04-6	Hentriacontane	700	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
57-10-3	n-Hexadecanoic acid	700	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
638-66-4	Octadecanal	500	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	400	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
7390-81-0	Oxirane, hexadecyl-	600	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	700	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	8000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D1 LIBRTY
D No: 44D1 A4

Sample ID: OK020-SD-001
Station ID: OK020
Lab ID: C073006-29
Matrix: Sediment
Date Collected: 7/17/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D1 LIBRTY

D No: 44D1 A4

Sample ID: OK020-SD-001
Station ID: OK020

Lab ID: C073006-29
Matrix: Sediment

Date Collected: 7/17/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U, J, QC-2	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U, J, QC-2	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D1 LIBRTY

D No: 44D1 A4

Sample ID: OK020-SD-001 **Lab ID:** C073006-29

Station ID: OK020 **Matrix:** Sediment

Date Collected: 7/17/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	800	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D2 LIBRTY

D No: 44D2 A4

Sample ID: OK300-WA-001
Station ID: OK300

Lab ID: C073006-30
Matrix: Surface Soil

Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	27		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U, J, QC-2	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	450	U	ug/kg dry	450	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	450	U	ug/kg dry	450	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	450	U	ug/kg dry	450	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	450	U	ug/kg dry	450	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	450	U	ug/kg dry	450	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	450	U	ug/kg dry	450	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D2 LIBRTY
D No: 44D2 A4

Sample ID: OK300-WA-001
Station ID: OK300
Lab ID: C073006-30
Matrix: Surface Soil
Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	230	U, J, QC-2	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D2 LIBRTY

D No: 44D2 A4

Sample ID: OK300-WA-001 **Lab ID:** C073006-30

Station ID: OK300

Matrix: Surface Soil

Date Collected: 7/17/07 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	450	U	ug/kg dry	450	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	230	U	ug/kg dry	230	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
14811-95-1	1,19-Eicosadiene (01)	2000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
77899-03-7	1-Heneicosyl formate	3000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
112-92-5	1-Octadecanol	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
17600-99-6	2-Nonacosanone	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
103-82-2	Benzeneacetic acid	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
474-62-4	Campesterol	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
112-85-6	Docosanoic acid	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
638-66-4	Octadecanal	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/25/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	700	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	10000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D3 LIBRTY
D No: 44D3 A4

Sample ID: OK301-WA-001
Station ID: OK301
Lab ID: C073006-31
Matrix: Surface Soil
Date Collected: 7/17/07 18:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D3 LIBRTY

D No: 44D3 A4

Sample ID: OK301-WA-001
Station ID: OK301

Lab ID: C073006-31
Matrix: Surface Soil

Date Collected: 7/17/07 18:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	210	U, J, QC-2	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U, J, QC-2	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D3 LIBRTY

D No: 44D3 A4

Sample ID: OK301-WA-001 **Lab ID:** C073006-31

Station ID: OK301 **Matrix:** Surface Soil

Date Collected: 7/17/07 18:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
629-96-9	1-Eicosanol	400	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1000155-82-2	Bicyclo[10.8.0]eicosane, cis-	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
297-03-0	Cyclotetracosane	2000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
629-92-5	Nonadecane	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	200	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	400	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	6000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D5 LIBRTY

D No: 44D5 A4

Sample ID: OK352-WA-001
Station ID: OK352

Lab ID: C073006-33
Matrix: Surface Soil

Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	5.0		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	170	U, J, QC-2	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	340	U	ug/kg dry	340	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	340	U	ug/kg dry	340	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	340	U	ug/kg dry	340	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	340	U	ug/kg dry	340	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	340	U	ug/kg dry	340	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	340	U	ug/kg dry	340	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D5 LIBRTY
D No: 44D5 A4

Sample ID: OK352-WA-001
Station ID: OK352
Lab ID: C073006-33
Matrix: Surface Soil
Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	170	U, J, QC-2	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D5 LIBRTY

D No: 44D5 A4

Sample ID: OK352-WA-001 **Lab ID:** C073006-33

Station ID: OK352 **Matrix:** Surface Soil

Date Collected: 7/17/07 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	340	U	ug/kg dry	340	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	170	U	ug/kg dry	170	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	1000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D8 LIBRTY

D No: 44D8 A4

Sample ID: OK408-SL-001
Station ID: OK408

Lab ID: C073006-34
Matrix: Surface Soil

Date Collected: 7/18/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		7/30/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D8 LIBRTY
D No: 44D8 A4

Sample ID: OK408-SL-001
Station ID: OK408

Lab ID: C073006-34
Matrix: Surface Soil

Date Collected: 7/18/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U, J, QC-2	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U, J, QC-2	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D8 LIBRTY

D No: 44D8 A4

Sample ID: OK408-SL-001 **Lab ID:** C073006-34

Station ID: OK408

Matrix: Surface Soil

Date Collected: 7/18/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	7/30/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	7/30/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	3000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
77899-03-7	1-Heneicosyl formate	500	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
7785-70-8	1R-.alpha.-Pinene	800	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
87-44-5	Caryophyllene	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
297-03-0	Cyclotetracosane	1000	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
559-74-0	Friedelan-3-one	600	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
630-04-6	Hentriacontane	400	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
630-03-5	Nonacosane	500	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
638-66-4	Octadecanal	500	NJ, CLP15	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	10000	J	ug/kg dry		7/30/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D9 LIBRTY

D No: 44D9 A4

Sample ID: OK414-SL-001
Station ID: OK414

Lab ID: C073006-35
Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	40		%		7/29/07	8/04/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	280	U, J, QS-3	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	280	U, J, QC-2	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	540	U	ug/kg dry	540	7/29/07	8/04/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	540	U	ug/kg dry	540	7/29/07	8/04/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	540	U	ug/kg dry	540	7/29/07	8/04/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	540	U	ug/kg dry	540	7/29/07	8/04/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	540	U	ug/kg dry	540	7/29/07	8/04/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	540	U	ug/kg dry	540	7/29/07	8/04/07	CLP SOM01.1 B
83-32-9	Acenaphthene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
98-86-2	Acetophenone	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
120-12-7	Anthracene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D9 LIBRTY

D No: 44D9 A4

Sample ID: OK414-SL-001
Station ID: OK414

Lab ID: C073006-35
Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	280	U, J, QC-2	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	280	U, J, QS-3	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	280	U, J, QS-3	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
105-60-2	Caprolactam	280	U, J, QS-3	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
86-74-8	Carbazole	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
218-01-9	Chrysene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	280	U, J, QS-3	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	280	U, J, QS-3	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	280	U, J, QS-3	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	280	U, J, QS-3	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
206-44-0	Fluoranthene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
86-73-7	Fluorene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
78-59-1	Isophorone	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
91-20-3	Naphthalene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D9 LIBRTY

D No: 44D9 A4

Sample ID: OK414-SL-001 **Lab ID:** C073006-35

Station ID: OK414 **Matrix:** Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	540	U	ug/kg dry	540	7/29/07	8/04/07	CLP SOM01.1 B
85-01-8	Phenanthrene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
108-95-2	Phenol	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
129-00-0	Pyrene	280	U	ug/kg dry	280	7/29/07	8/04/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
6938-66-5	1-Bromodocosane	600	NJ, CLP15	ug/kg dry		7/29/07	8/04/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/29/07	8/04/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E0 LIBRTY

D No: 44E0 A4

Sample ID: OK414-SL-001D
Station ID: OK414

Lab ID: C073006-36
Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	33		%		7/29/07	8/04/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	250	U, J, QC-2	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	480	U	ug/kg dry	480	7/29/07	8/04/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	480	U	ug/kg dry	480	7/29/07	8/04/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	480	U	ug/kg dry	480	7/29/07	8/04/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	480	U	ug/kg dry	480	7/29/07	8/04/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	480	U	ug/kg dry	480	7/29/07	8/04/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	480	U	ug/kg dry	480	7/29/07	8/04/07	CLP SOM01.1 B
83-32-9	Acenaphthene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
98-86-2	Acetophenone	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
120-12-7	Anthracene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E0 LIBRTY
D No: 44E0 A4

Sample ID: OK414-SL-001D
Station ID: OK414
Lab ID: C073006-36
Matrix: Surface Soil
Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	250	U, J, QC-2	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
105-60-2	Caprolactam	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
86-74-8	Carbazole	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
218-01-9	Chrysene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
206-44-0	Fluoranthene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
86-73-7	Fluorene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
78-59-1	Isophorone	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
91-20-3	Naphthalene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E0 LIBRTY

D No: 44E0 A4

Sample ID: OK414-SL-001D **Lab ID:** C073006-36

Station ID: OK414

Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	480	U	ug/kg dry	480	7/29/07	8/04/07	CLP SOM01.1 B
85-01-8	Phenanthrene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
108-95-2	Phenol	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
129-00-0	Pyrene	250	U	ug/kg dry	250	7/29/07	8/04/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:	N, CLP15				7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E1 LIBRTY

D No: 44E1 A4

Sample ID: OK419-SL-001
Station ID: OK419

Lab ID: C073006-37
Matrix: Surface Soil

Date Collected: 7/18/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U, J, QC-2	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	370	U	ug/kg dry	370	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E1 LIBRTY
D No: 44E1 A4

Sample ID: OK419-SL-001
Station ID: OK419
Lab ID: C073006-37
Matrix: Surface Soil
Date Collected: 7/18/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U, J, QC-2	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	370		ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E1 LIBRTY

D No: 44E1 A4

Sample ID: OK419-SL-001 **Lab ID:** C073006-37

Station ID: OK419

Matrix: Surface Soil

Date Collected: 7/18/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
641-85-0	Allopregnane	800	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	5000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E2 LIBRTY
D No: 44E2 A4

Sample ID: OK416-SL-001
Station ID: OK416
Lab ID: C073006-38
Matrix: Surface Soil
Date Collected: 7/18/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/29/07	8/04/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U, J, QC-2	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	7/29/07	8/04/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	7/29/07	8/04/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	7/29/07	8/04/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	7/29/07	8/04/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	7/29/07	8/04/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	7/29/07	8/04/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E2 LIBRTY

D No: 44E2 A4

Sample ID: OK416-SL-001
Station ID: OK416

Lab ID: C073006-38
Matrix: Surface Soil

Date Collected: 7/18/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	180	J, CLP01	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	260		ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	310		ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	180	J, CLP01	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	260	J, CLP01, QC-2	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
218-01-9	Chrysene	230		ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	45	J, CLP01	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
206-44-0	Fluoranthene	380		ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	J, CLP01	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E2 LIBRTY

D No: 44E2 A4

Sample ID: OK416-SL-001 **Lab ID:** C073006-38

Station ID: OK416 **Matrix:** Surface Soil

Date Collected: 7/18/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	7/29/07	8/04/07	CLP SOM01.1 B
85-01-8	Phenanthrene	150	J, CLP01	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
129-00-0	Pyrene	390		ug/kg dry	220	7/29/07	8/04/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	10000	J	ug/kg dry		7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E3 LIBRTY

D No: 44E3 A4

Sample ID: OK413-SL-001
Station ID: OK412

Lab ID: C073006-39
Matrix: Surface Soil

Date Collected: 7/18/07 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		7/29/07	8/09/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	7/29/07	8/09/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	7/29/07	8/09/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	26	J, CLP01	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	7/29/07	8/09/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	7/29/07	8/09/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	7/29/07	8/09/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	7/29/07	8/09/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E3 LIBRTY
D No: 44E3 A4

Sample ID: OK413-SL-001
Station ID: OK412

Lab ID: C073006-39
Matrix: Surface Soil

Date Collected: 7/18/07 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	50	J, CLP01	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E3 LIBRTY

D No: 44E3 A4

Sample ID: OK413-SL-001 **Lab ID:** C073006-39

Station ID: OK412 **Matrix:** Surface Soil

Date Collected: 7/18/07 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	7/29/07	8/09/07	CLP SOM01.1 B
85-01-8	Phenanthrene	110	J, CLP01	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U, J, QI-1	ug/kg dry	220	7/29/07	8/09/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
17733-22-1	2-Chlorobenzyl mercaptan	1000	NJ, CLP15	ug/kg dry		7/29/07	8/09/07	CLP SOM01.1 B
6258-66-8	4-Chlorobenzyl mercaptan	1000	NJ, CLP15	ug/kg dry		7/29/07	8/09/07	CLP SOM01.1 B
66563-30-2	Bacchotricuneatin c	500	NJ, CLP15	ug/kg dry		7/29/07	8/09/07	CLP SOM01.1 B
544-77-4	Hexadecane, 1-iodo-	300	NJ, CLP15	ug/kg dry		7/29/07	8/09/07	CLP SOM01.1 B
40915-55-7	Malononitrile, o-chlorobenzyl-	1000	NJ, CLP15	ug/kg dry		7/29/07	8/09/07	CLP SOM01.1 B
629-93-6	Octadecane, 1-iodo-	600	NJ, CLP15	ug/kg dry		7/29/07	8/09/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/29/07	8/09/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	6000	J	ug/kg dry		7/29/07	8/09/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E4 LIBRTY

D No: 44E4 A4

Sample ID: OK418-SL-001 **Lab ID:** C073006-40

Station ID: OK418

Matrix: Surface Soil

Date Collected: 7/18/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	9.0		%		7/29/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	11000	U	ug/kg dry	11000	7/29/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5500	U, J, QM-1	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	11000	U	ug/kg dry	11000	7/29/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	570	J, CLP01	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	11000	U	ug/kg dry	11000	7/29/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	11000	U	ug/kg dry	11000	7/29/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	11000	U	ug/kg dry	11000	7/29/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	11000	U	ug/kg dry	11000	7/29/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5500	U, J, QM-1, QM-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E4 LIBRTY

D No: 44E4 A4

Sample ID: OK418-SL-001 **Lab ID:** C073006-40

Station ID: OK418

Matrix: Surface Soil

Date Collected: 7/18/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
1912-24-9	Atrazine	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	580	J, CLP01	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5500	U, J, QC-2	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	5500	U, J, QS-3	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E4 LIBRTY

D No: 44E4 A4

Sample ID: OK418-SL-001 **Lab ID:** C073006-40

Station ID: OK418

Matrix: Surface Soil

Date Collected: 7/18/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5500	U, J, QM-1	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	11000	U	ug/kg dry	11000	7/29/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	5500	U	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	5500	U, J, QS-3, QM-1	ug/kg dry	5400	7/29/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
13187-99-0	2-Bromo dodecane	6000	NJ, CLP15	ug/kg dry		7/29/07	8/06/07	CLP SOM01.1 B
544-77-4	Hexadecane, 1-iodo-	10000	NJ, CLP15	ug/kg dry		7/29/07	8/06/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/29/07	8/06/07	CLP SOM01.1 B
483-87-4	Phenanthrene, 1,7-dimethyl-	7000	NJ, CLP15	ug/kg dry		7/29/07	8/06/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	200000	J	ug/kg dry		7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E5 LIBRTY

D No: 44E5 A4

Sample ID: OK427-SD-001
Station ID: OK427

Lab ID: C073006-41
Matrix: Sediment

Date Collected: 7/17/07 9:29

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	70		%		7/29/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	34000	U	ug/kg dry	30000	7/29/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	34000	U	ug/kg dry	30000	7/29/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	34000	U	ug/kg dry	30000	7/29/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	34000	U	ug/kg dry	30000	7/29/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	34000	U	ug/kg dry	30000	7/29/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	34000	U	ug/kg dry	30000	7/29/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E5 LIBRTY

D No: 44E5 A4

Sample ID: OK427-SD-001
Station ID: OK427

Lab ID: C073006-41
Matrix: Sediment

Date Collected: 7/17/07 9:29

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	17000	U, J, QC-2	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E5 LIBRTY
D No: 44E5 A4

Sample ID: OK427-SD-001
Station ID: OK427
Lab ID: C073006-41
Matrix: Sediment
Date Collected: 7/17/07 9:29

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	34000	U	ug/kg dry	30000	7/29/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	17000	U	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	17000	U, J, QS-3	ug/kg dry	15000	7/29/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	20000	U	ug/kg dry	20000	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E7 LIBRTY
D No: 44E7 A4

Sample ID: OK555-WA-001
Station ID: OK555
Lab ID: C073006-43
Matrix: Surface Soil
Date Collected: 7/18/07 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		7/29/07	8/04/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U, J, QC-2	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	390	U	ug/kg dry	390	7/29/07	8/04/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	7/29/07	8/04/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	7/29/07	8/04/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	7/29/07	8/04/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	7/29/07	8/04/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	7/29/07	8/04/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
120-12-7	Anthracene	30	J, CLP01	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E7 LIBRTY

D No: 44E7 A4

Sample ID: OK555-WA-001
Station ID: OK555

Lab ID: C073006-43
Matrix: Surface Soil

Date Collected: 7/18/07 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	130	J, CLP01	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	110	J, CLP01	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	130	J, CLP01	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	64	J, CLP01	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	130	J, QC-2, CLP01	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
218-01-9	Chrysene	120	J, CLP01	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
206-44-0	Fluoranthene	250		ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	86	J, CLP01	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E7 LIBRTY

D No: 44E7 A4

Sample ID: OK555-WA-001 **Lab ID:** C073006-43

Station ID: OK555

Matrix: Surface Soil

Date Collected: 7/18/07 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	7/29/07	8/04/07	CLP SOM01.1 B
85-01-8	Phenanthrene	150	J, CLP01	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
129-00-0	Pyrene	220		ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	7/29/07	8/04/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E8 LIBRTY

D No: 44E8 A4

Sample ID: OK021-SD-001
Station ID: OK021

Lab ID: C073006-44
Matrix: Sediment

Date Collected: 7/18/07 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		7/29/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	430	U	ug/kg dry	430	7/29/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	7/29/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	7/29/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	7/29/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	7/29/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	7/29/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E8 LIBRTY
D No: 44E8 A4

Sample ID: OK021-SD-001
Station ID: OK021
Lab ID: C073006-44
Matrix: Sediment
Date Collected: 7/18/07 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U, J, QC-2	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E8 LIBRTY

D No: 44E8 A4

Sample ID: OK021-SD-001 **Lab ID:** C073006-44

Station ID: OK021 **Matrix:** Sediment

Date Collected: 7/18/07 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	7/29/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U	ug/kg dry	220	7/29/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:	N, CLP15				7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E9 LIBRTY

D No: 44E9 A4

Sample ID: OK024-SD-001
Station ID: OK024

Lab ID: C073006-45
Matrix: Sediment

Date Collected: 7/18/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	28		%		7/29/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	450	U	ug/kg dry	450	7/29/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	450	U	ug/kg dry	450	7/29/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	450	U	ug/kg dry	450	7/29/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	450	U	ug/kg dry	450	7/29/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	450	U	ug/kg dry	450	7/29/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	450	U	ug/kg dry	450	7/29/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E9 LIBRTY
D No: 44E9 A4

Sample ID: OK024-SD-001
Station ID: OK024
Lab ID: C073006-45
Matrix: Sediment
Date Collected: 7/18/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	230	U, J, QC-2	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E9 LIBRTY

D No: 44E9 A4

Sample ID: OK024-SD-001 **Lab ID:** C073006-45

Station ID: OK024 **Matrix:** Sediment

Date Collected: 7/18/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	450	U	ug/kg dry	450	7/29/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	230	U	ug/kg dry	230	7/29/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			7/29/07	8/06/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	800	J	ug/kg dry		7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F1 LIBRTY

D No: 44F1 A4

Sample ID: OK022-SD-001
Station ID: OK022

Lab ID: C073006-46
Matrix: Sediment

Date Collected: 7/18/07 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		7/29/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	400	U	ug/kg dry	400	7/29/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	7/29/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	7/29/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	7/29/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	7/29/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	7/29/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44F1 LIBRTY
D No: 44F1 A4

Sample ID: OK022-SD-001
Station ID: OK022
Lab ID: C073006-46
Matrix: Sediment
Date Collected: 7/18/07 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	210	U, J, QC-2	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F1 LIBRTY

D No: 44F1 A4

Sample ID: OK022-SD-001 **Lab ID:** C073006-46

Station ID: OK022 **Matrix:** Sediment

Date Collected: 7/18/07 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	7/29/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	7/29/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F2 LIBRTY

D No: 44F2 A4

Sample ID: OK023-SD-001
Station ID: OK023

Lab ID: C073006-47
Matrix: Sediment

Date Collected: 7/18/07 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		7/29/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	370	U	ug/kg dry	370	7/29/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	7/29/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	7/29/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	7/29/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	7/29/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	7/29/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44F2 LIBRTY
D No: 44F2 A4

Sample ID: OK023-SD-001
Station ID: OK023

Lab ID: C073006-47
Matrix: Sediment

Date Collected: 7/18/07 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U, J, QC-2	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F2 LIBRTY

D No: 44F2 A4

Sample ID: OK023-SD-001 **Lab ID:** C073006-47

Station ID: OK023 **Matrix:** Sediment

Date Collected: 7/18/07 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	7/29/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U	ug/kg dry	190	7/29/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	200	J	ug/kg dry		7/29/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F9 LIBRTY

D No: 44F9 A4

Sample ID: OK551-SL-001
Station ID: OK551

Lab ID: C073006-48
Matrix: Surface Soil

Date Collected: 7/18/07 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	7.0		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	180	U, J, QC-2	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	350	U	ug/kg dry	350	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	350	U	ug/kg dry	350	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	350	U	ug/kg dry	350	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	350	U	ug/kg dry	350	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	350	U	ug/kg dry	350	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	350	U	ug/kg dry	350	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F9 LIBRTY

D No: 44F9 A4

Sample ID: OK551-SL-001
Station ID: OK551

Lab ID: C073006-48
Matrix: Surface Soil

Date Collected: 7/18/07 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	180	U, J, QC-2	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44F9 LIBRTY

D No: 44F9 A4

Sample ID: OK551-SL-001 **Lab ID:** C073006-48

Station ID: OK551 **Matrix:** Surface Soil

Date Collected: 7/18/07 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	350	U	ug/kg dry	350	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	180	U	ug/kg dry	180	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
80-56-8	.alpha.-Pinene	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
25276-70-4	1-Pentadecanethiol	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G0 LIBRTY

D No: 44G0 A4

Sample ID: OK558-WA-001
Station ID: OK558

Lab ID: C073006-49
Matrix: Surface Soil

Date Collected: 7/18/07 17:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U, J, QC-2	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G0 LIBRTY

D No: 44G0 A4

Sample ID: OK558-WA-001
Station ID: OK558

Lab ID: C073006-49
Matrix: Surface Soil

Date Collected: 7/18/07 17:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	38	J, QS-3, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	41	J, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	39	J, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	30	J, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	44	J, QS-2, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	37	J, QS-3, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	64	J, QS-3, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	36	J, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G0 LIBRTY

D No: 44G0 A4

Sample ID: OK558-WA-001 **Lab ID:** C073006-49

Station ID: OK558 **Matrix:** Surface Soil

Date Collected: 7/18/07 17:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	79	J, QS-3, CLP01	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	300	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G1 LIBRTY

D No: 44G1 A4

Sample ID: OK552-WA-001
Station ID: OK552

Lab ID: C073006-50
Matrix: Surface Soil

Date Collected: 7/18/07 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U, J, QC-2	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	390	U	ug/kg dry	390	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G1 LIBRTY

D No: 44G1 A4

Sample ID: OK552-WA-001
Station ID: OK552

Lab ID: C073006-50
Matrix: Surface Soil

Date Collected: 7/18/07 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U, J, QC-2	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G1 LIBRTY

D No: 44G1 A4

Sample ID: OK552-WA-001 **Lab ID:** C073006-50

Station ID: OK552

Matrix: Surface Soil

Date Collected: 7/18/07 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G2 LIBRTY

D No: 44G2 A4

Sample ID: OK553-SL-001
Station ID: OK553

Lab ID: C073006-51
Matrix: Surface Soil

Date Collected: 7/18/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	360	U	ug/kg dry	360	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G2 LIBRTY

D No: 44G2 A4

Sample ID: OK553-SL-001
Station ID: OK553

Lab ID: C073006-51
Matrix: Surface Soil

Date Collected: 7/18/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	150	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	53	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	87	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	120	J, QC-2, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	110	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	110	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	75	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U, J, QC-2	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	110	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	99	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G2 LIBRTY

D No: 44G2 A4

Sample ID: OK553-SL-001 **Lab ID:** C073006-51

Station ID: OK553 **Matrix:** Surface Soil

Date Collected: 7/18/07 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	360	U	ug/kg dry	360	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	54	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	90	J, CLP01	ug/kg dry	190	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	1000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1599-67-3	1-Docosene	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
18435-45-5	1-Nonadecene	600	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
103-82-2	Benzeneacetic acid	2000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
559-74-0	Friedelan-3-one	900	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
7390-81-0	Oxirane, hexadecyl-	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	5000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G3 LIBRTY
D No: 44G3 A4

Sample ID: OK554-SL-001
Station ID: OK554
Lab ID: C073006-52
Matrix: Surface Soil
Date Collected: 7/18/07 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	33	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G3 LIBRTY

D No: 44G3 A4

Sample ID: OK554-SL-001
Station ID: OK554

Lab ID: C073006-52
Matrix: Surface Soil

Date Collected: 7/18/07 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	150	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	J, CLP01, QC-2	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	140	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	150	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	31	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U, J, QC-2	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	160	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	130	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G3 LIBRTY

D No: 44G3 A4

Sample ID: OK554-SL-001
Station ID: OK554

Lab ID: C073006-52
Matrix: Surface Soil

Date Collected: 7/18/07 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	130	J, CLP01	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	500	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G4 LIBRTY
D No: 44G4 A4

Sample ID: OK423-SL-001
Station ID: OK423
Lab ID: C073006-53
Matrix: Surface Soil
Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U, J, QC-2	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44G4 LIBRTY
D No: 44G4 A4

Sample ID: OK423-SL-001
Station ID: OK423
Lab ID: C073006-53
Matrix: Surface Soil
Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	210	U, J, QC-2	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44G4 LIBRTY

D No: 44G4 A4

Sample ID: OK423-SL-001 **Lab ID:** C073006-53

Station ID: OK423 **Matrix:** Surface Soil

Date Collected: 7/18/07 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	900	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H0 LIBRTY

D No: 44H0 A4

Sample ID: OK015-SD-001
Station ID: OK015

Lab ID: C073006-58
Matrix: Sediment

Date Collected: 7/18/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	45		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	600	U	ug/kg dry	600	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	600	U	ug/kg dry	600	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	600	U	ug/kg dry	600	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	600	U	ug/kg dry	600	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	600	U	ug/kg dry	600	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	600	U	ug/kg dry	600	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H0 LIBRTY

D No: 44H0 A4

Sample ID: OK015-SD-001
Station ID: OK015

Lab ID: C073006-58
Matrix: Sediment

Date Collected: 7/18/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	310	U, J, QC-2	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	310	U, J, QC-2	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H0 LIBRTY

D No: 44H0 A4

Sample ID: OK015-SD-001 **Lab ID:** C073006-58

Station ID: OK015

Matrix: Sediment

Date Collected: 7/18/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	600	U	ug/kg dry	600	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	310	U	ug/kg dry	310	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene (01)	900	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1000142-89-2	18-Nonadecen-1-ol	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
38775-38-1	1-Hexadecanesulfonyl chloride	1000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
74685-30-6	5-Eicosene, (E)-	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
57-88-5	Cholesterol	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
22611-26-3	D:C-Friedoolean-8-en-3-one	1000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
630-04-6	Hentriacontane	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
630-03-5	Nonacosane	2000	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	600	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	8000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H1 LIBRTY

D No: 44H1 A4

Sample ID: OK016-SD-001
Station ID: OK016

Lab ID: C073006-59
Matrix: Sediment

Date Collected: 7/18/07 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	29		%		7/25/07	8/03/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
83-32-9	Acenaphthene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
98-86-2	Acetophenone	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
120-12-7	Anthracene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H1 LIBRTY

D No: 44H1 A4

Sample ID: OK016-SD-001
Station ID: OK016

Lab ID: C073006-59
Matrix: Sediment

Date Collected: 7/18/07 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	240	U, J, QC-2	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
105-60-2	Caprolactam	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
86-74-8	Carbazole	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
218-01-9	Chrysene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	240	U, J, QC-2	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
206-44-0	Fluoranthene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
86-73-7	Fluorene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
78-59-1	Isophorone	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
91-20-3	Naphthalene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H1 LIBRTY

D No: 44H1 A4

Sample ID: OK016-SD-001 **Lab ID:** C073006-59

Station ID: OK016 **Matrix:** Sediment

Date Collected: 7/18/07 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	460	U	ug/kg dry	460	7/25/07	8/03/07	CLP SOM01.1 B
85-01-8	Phenanthrene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
108-95-2	Phenol	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
129-00-0	Pyrene	240	U	ug/kg dry	240	7/25/07	8/03/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
116-04-1	.beta.-Humulene	400	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
83-46-5	.beta.-Sitosterol	900	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
18435-45-5	1-Nonadecene	600	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
295-17-0	Cyclotetradecane	200	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
112-95-8	Eicosane	300	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
630-03-5	Nonacosane	500	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
638-66-4	Octadecanal (01)	800	NJ, CLP15	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	5000	J	ug/kg dry		7/25/07	8/03/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H2 LIBRTY

D No: 44H2 A4

Sample ID: OK016-SD-002
Station ID: OK016

Lab ID: C073006-60
Matrix: Sediment

Date Collected: 7/18/07 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	81		%		7/30/07	8/02/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	1700	U	ug/kg dry	1700	7/30/07	8/02/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	1700	U	ug/kg dry	1700	7/30/07	8/02/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	1700	U	ug/kg dry	1700	7/30/07	8/02/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	1700	U	ug/kg dry	1700	7/30/07	8/02/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	1700	U	ug/kg dry	1700	7/30/07	8/02/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	1700	U	ug/kg dry	1700	7/30/07	8/02/07	CLP SOM01.1 B
83-32-9	Acenaphthene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
98-86-2	Acetophenone	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
120-12-7	Anthracene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H2 LIBRTY
D No: 44H2 A4

Sample ID: OK016-SD-002
Station ID: OK016
Lab ID: C073006-60
Matrix: Sediment
Date Collected: 7/18/07 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	880	U, J, QC-2	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
105-60-2	Caprolactam	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
86-74-8	Carbazole	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
218-01-9	Chrysene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
206-44-0	Fluoranthene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
86-73-7	Fluorene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
78-59-1	Isophorone	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
91-20-3	Naphthalene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H2 LIBRTY

D No: 44H2 A4

Sample ID: OK016-SD-002 **Lab ID:** C073006-60

Station ID: OK016

Matrix: Sediment

Date Collected: 7/18/07 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	1700	U	ug/kg dry	1700	7/30/07	8/02/07	CLP SOM01.1 B
85-01-8	Phenanthrene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
108-95-2	Phenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
129-00-0	Pyrene	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			7/30/07	8/02/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	10000	J	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H3 LIBRTY

D No: 44H3 A4

Sample ID: OK016-SD-003
Station ID: OK016

Lab ID: C073006-61
Matrix: Sediment

Date Collected: 7/18/07 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	64		%		7/30/07	8/02/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
83-32-9	Acenaphthene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
98-86-2	Acetophenone	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
120-12-7	Anthracene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H3 LIBRTY

D No: 44H3 A4

Sample ID: OK016-SD-003
Station ID: OK016

Lab ID: C073006-61
Matrix: Sediment

Date Collected: 7/18/07 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	470	U, J, QC-2	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
105-60-2	Caprolactam	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
86-74-8	Carbazole	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
218-01-9	Chrysene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
206-44-0	Fluoranthene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
86-73-7	Fluorene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
78-59-1	Isophorone	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
91-20-3	Naphthalene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H3 LIBRTY

D No: 44H3 A4

Sample ID: OK016-SD-003 **Lab ID:** C073006-61

Station ID: OK016

Matrix: Sediment

Date Collected: 7/18/07 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
85-01-8	Phenanthrene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
108-95-2	Phenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
129-00-0	Pyrene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	1000	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/30/07	8/02/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	4000	J	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H4 LIBRTY

D No: 44H4 A4

Sample ID: OK017-SD-001
Station ID: OK017

Lab ID: C073006-62
Matrix: Sediment

Date Collected: 7/18/07 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	35		%		7/30/07	8/02/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	510	U	ug/kg dry	510	7/30/07	8/02/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	510	U	ug/kg dry	510	7/30/07	8/02/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	510	U	ug/kg dry	510	7/30/07	8/02/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	510	U	ug/kg dry	510	7/30/07	8/02/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	510	U	ug/kg dry	510	7/30/07	8/02/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	510	U	ug/kg dry	510	7/30/07	8/02/07	CLP SOM01.1 B
83-32-9	Acenaphthene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
98-86-2	Acetophenone	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
120-12-7	Anthracene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H4 LIBRTY
D No: 44H4 A4

Sample ID: OK017-SD-001
Station ID: OK017
Lab ID: C073006-62
Matrix: Sediment
Date Collected: 7/18/07 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	260	U, J, QC-2	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
105-60-2	Caprolactam	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
86-74-8	Carbazole	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
218-01-9	Chrysene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
206-44-0	Fluoranthene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
86-73-7	Fluorene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
78-59-1	Isophorone	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
91-20-3	Naphthalene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H4 LIBRTY

D No: 44H4 A4

Sample ID: OK017-SD-001 **Lab ID:** C073006-62

Station ID: OK017

Matrix: Sediment

Date Collected: 7/18/07 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	510	U	ug/kg dry	510	7/30/07	8/02/07	CLP SOM01.1 B
85-01-8	Phenanthrene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
108-95-2	Phenol	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
129-00-0	Pyrene	260	U	ug/kg dry	260	7/30/07	8/02/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
7785-26-4	1S-.alpha.-Pinene	300	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
638-66-4	Octadecanal	400	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			7/30/07	8/02/07	CLP SOM01.1 B
1000214-20-7	Stigmasterol, 22,23-dihydro-	400	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H5 LIBRTY

D No: 44H5 A4

Sample ID: OK014-SD-001
Station ID: OK014

Lab ID: C073006-63
Matrix: Sediment

Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	63		%		7/30/07	8/02/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	450	U, J, QS-3	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	450	U, J, QS-3	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
83-32-9	Acenaphthene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
98-86-2	Acetophenone	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
120-12-7	Anthracene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44H5 LIBRTY
D No: 44H5 A4

Sample ID: OK014-SD-001
Station ID: OK014
Lab ID: C073006-63
Matrix: Sediment
Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	450	U, J, QC-2	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
105-60-2	Caprolactam	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
86-74-8	Carbazole	450	U, J, QS-3	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
218-01-9	Chrysene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	450	U, J, QS-3	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
206-44-0	Fluoranthene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
86-73-7	Fluorene	450	U, J, QS-3	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
78-59-1	Isophorone	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
91-20-3	Naphthalene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H5 LIBRTY

D No: 44H5 A4

Sample ID: OK014-SD-001 **Lab ID:** C073006-63

Station ID: OK014 **Matrix:** Sediment

Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	880	U	ug/kg dry	880	7/30/07	8/02/07	CLP SOM01.1 B
85-01-8	Phenanthrene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
108-95-2	Phenol	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
129-00-0	Pyrene	450	U	ug/kg dry	450	7/30/07	8/02/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
80-56-8	.alpha.-Pinene	500	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	4000	J	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H6 LIBRTY

D No: 44H6 A4

Sample ID: OK014-SD-001D
Station ID: OK014

Lab ID: C073006-64
Matrix: Sediment

Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	64		%		7/30/07	8/02/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
83-32-9	Acenaphthene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
98-86-2	Acetophenone	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
120-12-7	Anthracene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H6 LIBRTY

D No: 44H6 A4

Sample ID: OK014-SD-001D
Station ID: OK014

Lab ID: C073006-64
Matrix: Sediment

Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	470	U, J, QC-2	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
105-60-2	Caprolactam	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
86-74-8	Carbazole	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
218-01-9	Chrysene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
206-44-0	Fluoranthene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
86-73-7	Fluorene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
78-59-1	Isophorone	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
91-20-3	Naphthalene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H6 LIBRTY

D No: 44H6 A4

Sample ID: OK014-SD-001D **Lab ID:** C073006-64

Station ID: OK014

Matrix: Sediment

Date Collected: 7/18/07 18:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	910	U	ug/kg dry	910	7/30/07	8/02/07	CLP SOM01.1 B
85-01-8	Phenanthrene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
108-95-2	Phenol	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
129-00-0	Pyrene	470	U	ug/kg dry	470	7/30/07	8/02/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
2136-72-3	Ethanol, 2-(octadecyloxy)-	600	NJ, CLP15	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		7/30/07	8/02/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H8 LIBRTY

D No: 44H8 A4

Sample ID: OK425-SL-001
Station ID: OK425

Lab ID: C073006-65
Matrix: Surface Soil

Date Collected: 7/19/07 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	64		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	910	U	ug/kg dry	910	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	910	U	ug/kg dry	910	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	910	U	ug/kg dry	910	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	910	U	ug/kg dry	910	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	910	U	ug/kg dry	910	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	910	U	ug/kg dry	910	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H8 LIBRTY

D No: 44H8 A4

Sample ID: OK425-SL-001
Station ID: OK425

Lab ID: C073006-65
Matrix: Surface Soil

Date Collected: 7/19/07 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H8 LIBRTY

D No: 44H8 A4

Sample ID: OK425-SL-001 **Lab ID:** C073006-65

Station ID: OK425 **Matrix:** Surface Soil

Date Collected: 7/19/07 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	910	U	ug/kg dry	910	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	470	U	ug/kg dry	470	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
112-88-9	1-Octadecene	500	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/02/07	8/08/07	CLP SOM01.1 B
1000214-20-7	Stigmasterol, 22,23-dihydro-	700	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	3000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J0 LIBRTY

D No: 44J0 A4

Sample ID: OK520-SL-001
Station ID: OK520

Lab ID: C073006-66
Matrix: Surface Soil

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J0 LIBRTY

D No: 44J0 A4

Sample ID: OK520-SL-001

Station ID: OK520

Lab ID: C073006-66

Matrix: Surface Soil

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J0 LIBRTY

D No: 44J0 A4

Sample ID: OK520-SL-001 **Lab ID:** C073006-66

Station ID: OK520 **Matrix:** Surface Soil

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U, J, QM-1	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U, J, QS-3, QM-1	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J1 LIBRTY

D No: 44J1 A4

Sample ID: OK512-SL-001
Station ID: OK512

Lab ID: C073006-67
Matrix: Surface Soil

Date Collected: 7/19/07 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J1 LIBRTY

D No: 44J1 A4

Sample ID: OK512-SL-001
Station ID: OK512

Lab ID: C073006-67
Matrix: Surface Soil

Date Collected: 7/19/07 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	26	J, CLP01	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	30	J, CLP01	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	57	J, CLP01	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J1 LIBRTY

D No: 44J1 A4

Sample ID: OK512-SL-001 **Lab ID:** C073006-67

Station ID: OK512 **Matrix:** Surface Soil

Date Collected: 7/19/07 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	53	J, CLP01	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
559-74-0	Friedelan-3-one	500	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J2 LIBRTY

D No: 44J2 A4

Sample ID: OK513-SL-001
Station ID: OK513

Lab ID: C073006-68
Matrix: Surface Soil

Date Collected: 7/19/07 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U, J, QC-2	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	360	U, J, QC-1	ug/kg dry	360	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J2 LIBRTY

D No: 44J2 A4

Sample ID: OK513-SL-001
Station ID: OK513

Lab ID: C073006-68
Matrix: Surface Soil

Date Collected: 7/19/07 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J2 LIBRTY

D No: 44J2 A4

Sample ID: OK513-SL-001 **Lab ID:** C073006-68

Station ID: OK513

Matrix: Surface Soil

Date Collected: 7/19/07 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	360	U	ug/kg dry	360	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
559-74-0	Friedelan-3-one	600	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J3 LIBRTY

D No: 44J3 A4

Sample ID: OK513-SL-001D
Station ID: OK513

Lab ID: C073006-69
Matrix: Surface Soil

Date Collected: 7/19/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U, J, QC-2	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U, J, QC-1	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J3 LIBRTY

D No: 44J3 A4

Sample ID: OK513-SL-001D
Station ID: OK513

Lab ID: C073006-69
Matrix: Surface Soil

Date Collected: 7/19/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J3 LIBRTY

D No: 44J3 A4

Sample ID: OK513-SL-001D **Lab ID:** C073006-69

Station ID: OK513

Matrix: Surface Soil

Date Collected: 7/19/07 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U, J, QS-3	ug/kg dry	190	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
559-74-0	Friedelan-3-one	400	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J4 LIBRTY

D No: 44J4 A4

Sample ID: OK514-SL-001
Station ID: OK514

Lab ID: C073006-70
Matrix: Surface Soil

Date Collected: 7/19/07 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U, J, QC-2	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	390	U, J, QC-1	ug/kg dry	390	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J4 LIBRTY

D No: 44J4 A4

Sample ID: OK514-SL-001
Station ID: OK514

Lab ID: C073006-70
Matrix: Surface Soil

Date Collected: 7/19/07 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J4 LIBRTY

D No: 44J4 A4

Sample ID: OK514-SL-001 **Lab ID:** C073006-70

Station ID: OK514 **Matrix:** Surface Soil

Date Collected: 7/19/07 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
1599-67-3	1-Docosene	300	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J5 LIBRTY

D No: 44J5 A4

Sample ID: OK501-SL-001
Station ID: OK501

Lab ID: C073006-71
Matrix: Surface Soil

Date Collected: 7/19/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J5 LIBRTY
D No: 44J5 A4

Sample ID: OK501-SL-001
Station ID: OK501

Lab ID: C073006-71
Matrix: Surface Soil

Date Collected: 7/19/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J5 LIBRTY

D No: 44J5 A4

Sample ID: OK501-SL-001 **Lab ID:** C073006-71

Station ID: OK501

Matrix: Surface Soil

Date Collected: 7/19/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	3000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
56554-87-1	16-Octadecenal	2000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
6971-40-0	17-Pentatriacontene	900	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
1599-67-3	1-Docosene	3000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
17600-99-6	2-Nonacosanone	600	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
103-82-2	Benzeneacetic acid	500	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
1000130-97-9	E-15-Heptadecenal	2000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
559-74-0	Friedelan-3-one	3000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
58801-23-3	Hop-22(29)-en-3.beta.-ol	2000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/02/07	8/08/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	700	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	7000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J7 LIBRTY

D No: 44J7 A4

Sample ID: OK511-SL-001
Station ID: OK511

Lab ID: C073006-73
Matrix: Surface Soil

Date Collected: 7/19/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U, J, QC-2	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U, J, QC-1	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J7 LIBRTY

D No: 44J7 A4

Sample ID: OK511-SL-001
Station ID: OK511

Lab ID: C073006-73
Matrix: Surface Soil

Date Collected: 7/19/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J7 LIBRTY

D No: 44J7 A4

Sample ID: OK511-SL-001 **Lab ID:** C073006-73

Station ID: OK511 **Matrix:** Surface Soil

Date Collected: 7/19/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
559-74-0	Friedelan-3-one	900	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J8 LIBRTY

D No: 44J8 A4

Sample ID: OK424-SL-001
Station ID: OK424

Lab ID: C073006-74
Matrix: Surface Soil

Date Collected: 7/19/07 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	75		%		8/02/07	8/10/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	1300	U	ug/kg dry	1300	8/02/07	8/10/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	1300	U	ug/kg dry	1300	8/02/07	8/10/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	1300	U	ug/kg dry	1300	8/02/07	8/10/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	1300	U	ug/kg dry	1300	8/02/07	8/10/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	1300	U	ug/kg dry	1300	8/02/07	8/10/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	1300	U	ug/kg dry	1300	8/02/07	8/10/07	CLP SOM01.1 B
83-32-9	Acenaphthene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
98-86-2	Acetophenone	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
120-12-7	Anthracene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44J8 LIBRTY
D No: 44J8 A4

Sample ID: OK424-SL-001
Station ID: OK424
Lab ID: C073006-74
Matrix: Surface Soil
Date Collected: 7/19/07 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
105-60-2	Caprolactam	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
86-74-8	Carbazole	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
218-01-9	Chrysene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
206-44-0	Fluoranthene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
86-73-7	Fluorene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
78-59-1	Isophorone	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
91-20-3	Naphthalene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J8 LIBRTY

D No: 44J8 A4

Sample ID: OK424-SL-001 **Lab ID:** C073006-74

Station ID: OK424 **Matrix:** Surface Soil

Date Collected: 7/19/07 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	1300	U	ug/kg dry	1300	8/02/07	8/10/07	CLP SOM01.1 B
85-01-8	Phenanthrene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
108-95-2	Phenol	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
129-00-0	Pyrene	670	U	ug/kg dry	670	8/02/07	8/10/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	3000	NJ, CLP15	ug/kg dry		8/02/07	8/10/07	CLP SOM01.1 B
6971-40-0	17-Pentatriacontene	1000	NJ, CLP15	ug/kg dry		8/02/07	8/10/07	CLP SOM01.1 B
630-03-5	Nonacosane	1000	NJ, CLP15	ug/kg dry		8/02/07	8/10/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	8000	J	ug/kg dry		8/02/07	8/10/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J9 LIBRTY

D No: 44J9 A4

Sample ID: OK422-SL-001
Station ID: OK422

Lab ID: C073006-75
Matrix: Surface Soil

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	28		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U, J, QC-2	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	440	U, J, QC-1	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J9 LIBRTY

D No: 44J9 A4

Sample ID: OK422-SL-001
Station ID: OK422

Lab ID: C073006-75
Matrix: Surface Soil

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44J9 LIBRTY

D No: 44J9 A4

Sample ID: OK422-SL-001
Station ID: OK422

Lab ID: C073006-75
Matrix: Surface Soil

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	230	U	ug/kg dry	230	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	500	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
1000130-97-9	E-15-Heptadecenal	300	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	3000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44K0 LIBRTY

D No: 44K0 A4

Sample ID: OK001-SD-001
Station ID: OK001

Lab ID: C073006-76
Matrix: Sediment

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U, J, QS-4	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U, J, QS-4	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44K0 LIBRTY
D No: 44K0 A4

Sample ID: OK001-SD-001
Station ID: OK001
Lab ID: C073006-76
Matrix: Sediment
Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	45	J, CLP01	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	37	J, CLP01	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	42	J, CLP01	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	83	J, CLP01	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, QS-4	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44K0 LIBRTY

D No: 44K0 A4

Sample ID: OK001-SD-001 **Lab ID:** C073006-76

Station ID: OK001 **Matrix:** Sediment

Date Collected: 7/19/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	61	J, CLP01	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44K1 LIBRTY

D No: 44K1 A4

Sample ID: OK002-SD-001
Station ID: OK002

Lab ID: C073006-77
Matrix: Sediment

Date Collected: 7/19/07 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U, J, QC-2	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	400	U, J, QC-1	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44K1 LIBRTY
D No: 44K1 A4

Sample ID: OK002-SD-001
Station ID: OK002
Lab ID: C073006-77
Matrix: Sediment
Date Collected: 7/19/07 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44K1 LIBRTY

D No: 44K1 A4

Sample ID: OK002-SD-001 **Lab ID:** C073006-77

Station ID: OK002 **Matrix:** Sediment

Date Collected: 7/19/07 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L0 LIBRTY

D No: 44L0 A4

Sample ID: OK013-SD-001
Station ID: OK013

Lab ID: C073006-78
Matrix: Sediment

Date Collected: 7/19/07 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	41		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L0 LIBRTY
D No: 44L0 A4

Sample ID: OK013-SD-001
Station ID: OK013
Lab ID: C073006-78
Matrix: Sediment
Date Collected: 7/19/07 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L0 LIBRTY

D No: 44L0 A4

Sample ID: OK013-SD-001
Station ID: OK013

Lab ID: C073006-78
Matrix: Sediment

Date Collected: 7/19/07 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
18435-45-5	1-Nonadecene	600	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/02/07	8/08/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	3000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L1 LIBRTY

D No: 44L1 A4

Sample ID: OK013-SD-001D
Station ID: OK013

Lab ID: C073006-79
Matrix: Sediment

Date Collected: 7/19/07 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	42		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L1 LIBRTY

D No: 44L1 A4

Sample ID: OK013-SD-001D
Station ID: OK013

Lab ID: C073006-79
Matrix: Sediment

Date Collected: 7/19/07 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L1 LIBRTY

D No: 44L1 A4

Sample ID: OK013-SD-001D **Lab ID:** C073006-79

Station ID: OK013

Matrix: Sediment

Date Collected: 7/19/07 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	560	U	ug/kg dry	560	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	290	U	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	290	U, J, QS-3	ug/kg dry	290	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			8/02/07	8/08/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L2 LIBRTY
D No: 44L2 A4

Sample ID: OK027-SD-001
Station ID: OK027
Lab ID: C073006-80
Matrix: Sediment
Date Collected: 7/19/07 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L2 LIBRTY

D No: 44L2 A4

Sample ID: OK027-SD-001
Station ID: OK027

Lab ID: C073006-80
Matrix: Sediment

Date Collected: 7/19/07 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L2 LIBRTY

D No: 44L2 A4

Sample ID: OK027-SD-001 **Lab ID:** C073006-80

Station ID: OK027 **Matrix:** Sediment

Date Collected: 7/19/07 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	1000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L3 LIBRTY

Sample ID: OK207-SD-001

Station ID: OK207

Lab ID: C073006-81

Matrix: Sediment

D No: 44L3 A4

Date Collected: 7/19/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U, J, QC-2	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	440	U, J, QC-1	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L3 LIBRTY

D No: 44L3 A4

Sample ID: OK207-SD-001
Station ID: OK207

Lab ID: C073006-81
Matrix: Sediment

Date Collected: 7/19/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L3 LIBRTY

D No: 44L3 A4

Sample ID: OK207-SD-001 **Lab ID:** C073006-81

Station ID: OK207 **Matrix:** Sediment

Date Collected: 7/19/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	300	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
3452-07-1	1-Eicosene	400	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/02/07	8/08/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	1000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L4 LIBRTY

D No: 44L4 A4

Sample ID: OK207-SD-001D
Station ID: OK207

Lab ID: C073006-82
Matrix: Sediment

Date Collected: 7/19/07 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L4 LIBRTY

D No: 44L4 A4

Sample ID: OK207-SD-001D
Station ID: OK207

Lab ID: C073006-82
Matrix: Sediment

Date Collected: 7/19/07 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L4 LIBRTY

D No: 44L4 A4

Sample ID: OK207-SD-001D
Station ID: OK207
Lab ID: C073006-82
Matrix: Sediment
Date Collected: 7/19/07 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
638-95-9	.alpha.-Amyrin	200	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
83-46-5	.beta.-Sitosterol	400	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
112-88-9	1-Octadecene	200	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/02/07	8/08/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	400	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L5 LIBRTY

D No: 44L5 A4

Sample ID: OK407-SD-001
Station ID: OK407

Lab ID: C073006-83
Matrix: Sediment

Date Collected: 7/19/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	33		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	480	U	ug/kg dry	480	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	480	U	ug/kg dry	480	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	480	U	ug/kg dry	480	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	480	U	ug/kg dry	480	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	480	U	ug/kg dry	480	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	480	U	ug/kg dry	480	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L5 LIBRTY

D No: 44L5 A4

Sample ID: OK407-SD-001
Station ID: OK407

Lab ID: C073006-83
Matrix: Sediment

Date Collected: 7/19/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L5 LIBRTY

D No: 44L5 A4

Sample ID: OK407-SD-001 **Lab ID:** C073006-83

Station ID: OK407

Matrix: Sediment

Date Collected: 7/19/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	480	U	ug/kg dry	480	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	250	U	ug/kg dry	250	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
1599-67-3	1-Docosene	1000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
40710-42-7	1-Hentetracontanol	400	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
474-62-4	Campesterol	700	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
559-74-0	Friedelan-3-one	2000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
545-47-1	Lupeol	900	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
7390-81-0	Oxirane, hexadecyl-	500	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/02/07	8/08/07	CLP SOM01.1 B
58-22-0	Testosterone	600	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L6 LIBRTY

D No: 44L6 A4

Sample ID: OK421-SD-001
Station ID: OK421

Lab ID: C073006-84
Matrix: Sediment

Date Collected: 7/19/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	430	U	ug/kg dry	430	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L6 LIBRTY

D No: 44L6 A4

Sample ID: OK421-SD-001
Station ID: OK421

Lab ID: C073006-84
Matrix: Sediment

Date Collected: 7/19/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	46	J, CLP01	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	48	J, CLP01	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	42	J, CLP01	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	50	J, CLP01	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	51	J, CLP01	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	72	J, CLP01	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	28	J, CLP01	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L6 LIBRTY

D No: 44L6 A4

Sample ID: OK421-SD-001 **Lab ID:** C073006-84

Station ID: OK421 **Matrix:** Sediment

Date Collected: 7/19/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	70	J, CLP01	ug/kg dry	220	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	1000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
18435-45-5	1-Nonadecene	300	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
2136-70-1	Ethanol, 2-(tetradecyloxy)-	400	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
559-74-0	Friedelan-3-one	1000	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
1617-7-5	Lup-20(29)-en-3-one	600	NJ, CLP15	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/02/07	8/08/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	3000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L9 LIBRTY

D No: 44L9 A4

Sample ID: OK025-SD-001
Station ID: OK025

Lab ID: C073006-85
Matrix: Sediment

Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		8/02/07	8/08/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U, J, QC-2	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	400	U, J, QC-1	ug/kg dry	410	8/02/07	8/08/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	410	8/02/07	8/08/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	410	8/02/07	8/08/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	410	8/02/07	8/08/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	410	8/02/07	8/08/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	410	8/02/07	8/08/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44L9 LIBRTY
D No: 44L9 A4

Sample ID: OK025-SD-001
Station ID: OK025
Lab ID: C073006-85
Matrix: Sediment
Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44L9 LIBRTY

D No: 44L9 A4

Sample ID: OK025-SD-001 **Lab ID:** C073006-85

Station ID: OK025 **Matrix:** Sediment

Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	410	8/02/07	8/08/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	8/02/07	8/08/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		8/02/07	8/08/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M0 LIBRTY

D No: 44M0 A4

Sample ID: OK426-SL-001
Station ID: OK426

Lab ID: C073006-86
Matrix: Surface Soil

Date Collected: 7/19/07 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	64		%		8/01/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	910	U	ug/kg dry	910	8/01/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	910	U	ug/kg dry	910	8/01/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	910	U	ug/kg dry	910	8/01/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	910	U	ug/kg dry	910	8/01/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	910	U	ug/kg dry	910	8/01/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	910	U	ug/kg dry	910	8/01/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M0 LIBRTY

D No: 44M0 A4

Sample ID: OK426-SL-001

Station ID: OK426

Lab ID: C073006-86

Matrix: Surface Soil

Date Collected: 7/19/07 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	470	U, J, QC-2	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	470	U, J, QS-3, QC-2	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	470	U, J, QS-3	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	470	U, J, QC-1	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M0 LIBRTY

D No: 44M0 A4

Sample ID: OK426-SL-001 **Lab ID:** C073006-86

Station ID: OK426 **Matrix:** Surface Soil

Date Collected: 7/19/07 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	910	U	ug/kg dry	910	8/01/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	470	U	ug/kg dry	470	8/01/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M1 LIBRTY

D No: 44M1 A4

Sample ID: OK517-SL-001
Station ID: OK517

Lab ID: C073006-87
Matrix: Surface Soil

Date Collected: 7/19/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		8/01/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M1 LIBRTY

D No: 44M1 A4

Sample ID: OK517-SL-001
Station ID: OK517

Lab ID: C073006-87
Matrix: Surface Soil

Date Collected: 7/19/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U, J, QC-2	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U, J, QC-2	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QC-1	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M1 LIBRTY

D No: 44M1 A4

Sample ID: OK517-SL-001 **Lab ID:** C073006-87

Station ID: OK517 **Matrix:** Surface Soil

Date Collected: 7/19/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U, J, QM-1	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
18435-45-5	1-Nonadecene	500	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/01/07	8/06/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	900	J	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M2 LIBRTY

D No: 44M2 A4

Sample ID: OK517-SL-001D
Station ID: OK517

Lab ID: C073006-88
Matrix: Surface Soil

Date Collected: 7/19/07 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		8/01/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M2 LIBRTY

D No: 44M2 A4

Sample ID: OK517-SL-001D
Station ID: OK517

Lab ID: C073006-88
Matrix: Surface Soil

Date Collected: 7/19/07 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U, J, QC-2	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U, J, QS-3, QC-2	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M2 LIBRTY

D No: 44M2 A4

Sample ID: OK517-SL-001D
Station ID: OK517

Lab ID: C073006-88
Matrix: Surface Soil

Date Collected: 7/19/07 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	2000	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
6971-40-0	17-Pentatriacontene	500	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
1599-67-3	1-Docosene	600	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
7320-37-8	Oxirane, tetradecyl-	1000	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M3 LIBRTY

D No: 44M3 A4

Sample ID: OK519-SL-001
Station ID: OK519

Lab ID: C073006-89
Matrix: Surface Soil

Date Collected: 7/19/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		8/01/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	8/01/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	8/01/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	8/01/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	8/01/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	8/01/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	8/01/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44M3 LIBRTY
D No: 44M3 A4

Sample ID: OK519-SL-001
Station ID: OK519
Lab ID: C073006-89
Matrix: Surface Soil
Date Collected: 7/19/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	220	U, J, QC-2	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	220	U, J, QC-2	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M3 LIBRTY

D No: 44M3 A4

Sample ID: OK519-SL-001 **Lab ID:** C073006-89

Station ID: OK519 **Matrix:** Surface Soil

Date Collected: 7/19/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	8/01/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	220	U	ug/kg dry	220	8/01/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M4 LIBRTY

D No: 44M4 A4

Sample ID: OK556-WA-001
Station ID: OK556

Lab ID: C073006-90
Matrix: Surface Soil

Date Collected: 7/19/07 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		8/01/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M4 LIBRTY

D No: 44M4 A4

Sample ID: OK556-WA-001
Station ID: OK556

Lab ID: C073006-90
Matrix: Surface Soil

Date Collected: 7/19/07 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	51	J, QS-3, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	49	J, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	53	J, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	26	J, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	50	J, QS-3, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	45	J, QS-3, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U, J, QS-3, QC-2	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	88	J, QS-3, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U, J, QS-3	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QC-1	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	30	J, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M4 LIBRTY

D No: 44M4 A4

Sample ID: OK556-WA-001
Station ID: OK556

Lab ID: C073006-90
Matrix: Surface Soil

Date Collected: 7/19/07 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	360	U	ug/kg dry	360	8/01/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	58	J, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	83	J, QS-3, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M5 LIBRTY

D No: 44M5 A4

Sample ID: OK500-SL-001
Station ID: OK500

Lab ID: C073006-91
Matrix: Surface Soil

Date Collected: 7/19/07 17:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		8/01/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M5 LIBRTY

D No: 44M5 A4

Sample ID: OK500-SL-001
Station ID: OK500

Lab ID: C073006-91
Matrix: Surface Soil

Date Collected: 7/19/07 17:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U, J, QC-2	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U, J, QS-3, QC-2	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M5 LIBRTY

D No: 44M5 A4

Sample ID: OK500-SL-001
Station ID: OK500

Lab ID: C073006-91
Matrix: Surface Soil

Date Collected: 7/19/07 17:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U, J, QS-3	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	1000	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	800	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
22513-81-1	1,22-Docosanediol	400	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
112-92-5	1-Octadecanol	1000	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
7390-81-0	Oxirane, hexadecyl-	700	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/01/07	8/06/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	9000	J	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M6 LIBRTY

D No: 44M6 A4

Sample ID: OK518-SL-001
Station ID: OK518

Lab ID: C073006-92
Matrix: Surface Soil

Date Collected: 7/19/07 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		8/01/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M6 LIBRTY

D No: 44M6 A4

Sample ID: OK518-SL-001
Station ID: OK518

Lab ID: C073006-92
Matrix: Surface Soil

Date Collected: 7/19/07 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	32	J, CLP01	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U, J, QC-2	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U, J, QC-2	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QC-1	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M6 LIBRTY

D No: 44M6 A4

Sample ID: OK518-SL-001 **Lab ID:** C073006-92

Station ID: OK518

Matrix: Surface Soil

Date Collected: 7/19/07 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U	ug/kg dry	190	8/01/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
18835-33-1	1-Hexacosene	800	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
506-51-4	1-Tetracosanol	400	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
544-77-4	Hexadecane, 1-iodo-	1000	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
638-66-4	Octadecanal	400	NJ, CLP15	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/01/07	8/06/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	800	J	ug/kg dry		8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M7 LIBRTY

D No: 44M7 A4

Sample ID: OK515-SL-001
Station ID: OK515

Lab ID: C073006-93
Matrix: Surface Soil

Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		8/01/07	8/06/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
120-12-7	Anthracene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M7 LIBRTY

D No: 44M7 A4

Sample ID: OK515-SL-001
Station ID: OK515

Lab ID: C073006-93
Matrix: Surface Soil

Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	200	U, J, QC-2	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
86-74-8	Carbazole	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
218-01-9	Chrysene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	200	U, J, QC-2	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
86-73-7	Fluorene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
78-59-1	Isophorone	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44M7 LIBRTY

D No: 44M7 A4

Sample ID: OK515-SL-001 **Lab ID:** C073006-93

Station ID: OK515

Matrix: Surface Soil

Date Collected: 7/19/07 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	8/01/07	8/06/07	CLP SOM01.1 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
108-95-2	Phenol	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
129-00-0	Pyrene	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	8/01/07	8/06/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44N0 LIBRTY

D No: 44N0 A4

Sample ID: OK406-SL-001
Station ID: OK406

Lab ID: C073006-94
Matrix: Surface Soil

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	27		%		8/01/07	8/07/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	440	U	ug/kg dry	440	8/01/07	8/07/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	8/01/07	8/07/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	8/01/07	8/07/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	8/01/07	8/07/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	8/01/07	8/07/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	8/01/07	8/07/07	CLP SOM01.1 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
120-12-7	Anthracene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44N0 LIBRTY

D No: 44N0 A4

Sample ID: OK406-SL-001
Station ID: OK406

Lab ID: C073006-94
Matrix: Surface Soil

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	27	J, CLP01	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	230	U, J, QS-3	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	230	U, J, QC-2	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
86-74-8	Carbazole	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
218-01-9	Chrysene	230	U, J, QS-3	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	230	U, J, QC-2	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
206-44-0	Fluoranthene	230	U, J, QS-3	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
86-73-7	Fluorene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U, J, QC-1	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
78-59-1	Isophorone	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44N0 LIBRTY

D No: 44N0 A4

Sample ID: OK406-SL-001 **Lab ID:** C073006-94

Station ID: OK406

Matrix: Surface Soil

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	8/01/07	8/07/07	CLP SOM01.1 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
108-95-2	Phenol	230	U	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
129-00-0	Pyrene	230	U, J, QS-3	ug/kg dry	230	8/01/07	8/07/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	2000	NJ, CLP15	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B
14811-95-1	1,19-Eicosadiene	500	NJ, CLP15	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B
1599-67-3	1-Docosene	2000	NJ, CLP15	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B
3133-01-5	1-Tricosanol	1000	NJ, CLP15	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B
67860-04-2	Oxirane, heptadecyl-	1000	NJ, CLP15	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/01/07	8/07/07	CLP SOM01.1 B
1058-61-3	Stigmast-4-en-3-one	1000	NJ, CLP15	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B
1059-14-9	Taraxasterol	2000	NJ, CLP15	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	9000	J	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44N1 LIBRTY

D No: 44N1 A4

Sample ID: OK502-SL-001
Station ID: OK502

Lab ID: C073006-95
Matrix: Surface Soil

Date Collected: 7/19/07 18:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		8/01/07	8/07/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	370	U	ug/kg dry	370	8/01/07	8/07/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	8/01/07	8/07/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	8/01/07	8/07/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	8/01/07	8/07/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	8/01/07	8/07/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	8/01/07	8/07/07	CLP SOM01.1 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
120-12-7	Anthracene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44N1 LIBRTY

D No: 44N1 A4

Sample ID: OK502-SL-001
Station ID: OK502

Lab ID: C073006-95
Matrix: Surface Soil

Date Collected: 7/19/07 18:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	190	U, J, QC-2	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
86-74-8	Carbazole	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
218-01-9	Chrysene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	190	U, J, QC-2	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
86-73-7	Fluorene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QC-1	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
78-59-1	Isophorone	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44N1 LIBRTY

D No: 44N1 A4

Sample ID: OK502-SL-001 **Lab ID:** C073006-95

Station ID: OK502 **Matrix:** Surface Soil

Date Collected: 7/19/07 18:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	8/01/07	8/07/07	CLP SOM01.1 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
108-95-2	Phenol	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
129-00-0	Pyrene	190	U	ug/kg dry	190	8/01/07	8/07/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	1000	NJ, CLP15	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B
1599-67-3	1-Docosene	600	NJ, CLP15	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B
R4-6500	Petroleum Product:		N, CLP15			8/01/07	8/07/07	CLP SOM01.1 B
R4-6501	Unidentified Compound(s)	2000	J	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44N3 LIBRTY

D No: 44N3 A4

Sample ID: OK004-SD-001
Station ID: OK004

Lab ID: C073006-96
Matrix: Sediment

Date Collected: 7/19/07 17:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		8/01/07	8/07/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	8/01/07	8/07/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	8/01/07	8/07/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	8/01/07	8/07/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	8/01/07	8/07/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	8/01/07	8/07/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	8/01/07	8/07/07	CLP SOM01.1 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
120-12-7	Anthracene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44N3 LIBRTY
D No: 44N3 A4

Sample ID: OK004-SD-001
Station ID: OK004
Lab ID: C073006-96
Matrix: Sediment
Date Collected: 7/19/07 17:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	210	U, J, QC-2	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
86-74-8	Carbazole	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
218-01-9	Chrysene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	210	U, J, QC-2	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
86-73-7	Fluorene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, QC-1	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
78-59-1	Isophorone	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44N3 LIBRTY

D No: 44N3 A4

Sample ID: OK004-SD-001 **Lab ID:** C073006-96

Station ID: OK004 **Matrix:** Sediment

Date Collected: 7/19/07 17:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	8/01/07	8/07/07	CLP SOM01.1 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
108-95-2	Phenol	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
129-00-0	Pyrene	210	U	ug/kg dry	210	8/01/07	8/07/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	200	J	ug/kg dry		8/01/07	8/07/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK026-SW-001
Station ID: OK026

Lab ID: C073006-97
Matrix: Surface Water

MD No:
D No: 44B5 A4

Date Collected: 7/17/07 12:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK026-SW-001
Station ID: OK026

Lab ID: C073006-97
Matrix: Surface Water

MD No:
D No: 44B5 A4

Date Collected: 7/17/07 12:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK026-SW-001
Station ID: OK026
Lab ID: C073006-97
Matrix: Surface Water
MD No:
D No: 44B5 A4
Date Collected: 7/17/07 12:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK026-SW-002
Station ID: OK026

Lab ID: C073006-98
Matrix: Surface Water

MD No:
D No: 44B6 A4

Date Collected: 7/17/07 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK026-SW-002
Station ID: OK026

Lab ID: C073006-98
Matrix: Surface Water

MD No:
D No: 44B6 A4

Date Collected: 7/17/07 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK026-SW-002
Station ID: OK026
Lab ID: C073006-98
Matrix: Surface Water
MD No:
D No: 44B6 A4
Date Collected: 7/17/07 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK026-SW-003
Station ID: OK026

Lab ID: C073006-99
Matrix: Surface Water

MD No:
D No: 44B7 A4

Date Collected: 7/17/07 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK026-SW-003
Station ID: OK026

Lab ID: C073006-99
Matrix: Surface Water

MD No:
D No: 44B7 A4

Date Collected: 7/17/07 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK026-SW-003
Station ID: OK026
Lab ID: C073006-99
Matrix: Surface Water
MD No:
D No: 44B7 A4
Date Collected: 7/17/07 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

November 6, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 07-0507, Ore Knob Mine Site
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Brian Striggow

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Semi Volatile Organics (SVOA)	
Semivolatile organic compounds	CLP BNA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Report Narrative for Work Order C073101, Project: 07-0507
Site Name: Ore Knob Mine Site, Jefferson, NC
Case No. 36622, Project No. 07-0507, Work Order No. C073006 & C073101
ELEMENT Nos. C073006-01 - C073006-96, C093101-01 - C093101-25, C093101-30
Sampling Dates: 07/17-19/07

Inorganic Analysis: CompuChem, Cary, NC
Date Received from Lab: 08/15/07
Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 96 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications.

ICP-AES Analysis

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

Matrix spiked sample recovery for antimony in SDG MD4497 was 7%. All sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for arsenic, cadmium, manganese, selenium, and thallium in SDG MD4497 were all outside the control limits of 75 to 125%. All sample results for arsenic, cadmium, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and zinc in SDG MD44C2 were 16 and -70% respectively. In addition, the matrix duplicate relative percent difference for zinc in SDG MD44C2 was 114%. All sample results for antimony and zinc in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony and zinc in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recovery for antimony and selenium in SDG MD44L2 were both 67%. In addition, the serial dilution percent difference for selenium in the above SDG was 15%. All sample results for antimony in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and thallium in SDG MD44E5 were 65 and 68% respectively. All sample results for antimony and thallium were considered estimated and flagged "J".

Matrix spiked sample recoveries for arsenic and lead in SDG MD44E5 were both 153%. All positive sample results for arsenic and lead in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recovery for antimony in SDG MD44C3 was 13%. All positive sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for lead, manganese, selenium, and thallium in SDG MD44C3 were all outside the control limits of 75-125%. All sample results for lead, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Performance evaluation sample (PES) recoveries for calcium and magnesium were both scored as action low. All positive sample results for calcium and magnesium were considered estimated and flagged "J". All non-detected sample results for calcium and magnesium were considered unusable and flagged "R".

Recoveries for arsenic, copper, iron, lead, nickel, and zinc in the soil PES were all scored as warning low. All sample results for arsenic, copper, iron, lead, nickel, and zinc were considered estimated and flagged "J".

Matrix duplicate relative percent differences for cobalt, copper, and zinc in SDG MD44L2 were all outside the control limits of ± 35%. In addition, the serial dilution for cobalt, copper, and zinc in the above SDG were all outside the control limits of ± 10%. All sample results for cobalt, copper, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in SDG MD4497 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for selenium in SDG MD44C2 was 20%. All sample results for selenium in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and vanadium in SDG MD44L2 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, and vanadium in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for potassium in SDG MD44E5 was 13%. All sample results for potassium in the above SDG were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures for arsenic in sample

C073006-75 and 89 and silver in sample C073006-66. The above sample results were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for arsenic in samples C073006-01, 03, 05, 12, 17, 24, 37, 38, 39, 40, 70, 71, 72, 73, and 76, beryllium in sample C073006-63, 65, 66, and 75, cadmium in samples C073006-05, 09, and 32, cobalt in sample C073006-07, selenium in samples C073006-02, 16, 17, 18, 24, 27,28, 30, 31, 34, 38, 40, and 62, silver in samples C073006-41, 44, 45, 57, 58, 65, 74, 84, 85, and 94, and thallium in samples C073006-20, 25, 55, 64, 66, 68, and 70. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Deliverables

Sample C073006-65 (MD44H8) was mislabeled as sample MD44G8 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Sample C073006-61 (MD44H3) was mislabeled as sample MD44H2 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Organic Analysis: A4 Scientific, The Woodlands, TX

The ESAT Work Team reviewed data for 26 water and 85 soil samples analyzed for volatiles, semivolatile extractables, and aroclors, per CLP statement of work SOM01.1. The samples were received by the laboratory between 07/18/07 and 07/24/07, and the final data package was received on 08/14/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The resubmission of volatile data was received on 09/04/07; the second resubmission of volatile data was received 09/14/07; the third resubmission of volatile data was received 09/20/07. The resubmission of aroclor data was received on 10/11/07, with the final submission of aroclor data received on 10/22/07.

The laboratory satisfied all technical and contractual analysis and extraction holding time limits except for the eight aroclor extracts which required sulfur removal [C073006-19 (D44C1), C073006-33 (D44D5), C073006-39 (D44E3), C073006-40 (D44E4), C073006-41 (D44E5), C073006-52 (D44G3), C073006-74 (D44J8), and C073006-82 (D44L4)]. These extracts exceeded the forty day holding time limit and all aroclor results for these samples were "J" qualified.

Target analytes dichlorodifluoromethane and trichlorofluoromethane were scored as warning low in the water volatile PES. All results for these compounds were "J" qualified in the water volatile samples. Target analyte 1,4-dioxane was scored as action low and all water volatile results, which were nondetects, were "R" qualified. Three compounds, methylene chloride, trichloroethene and methyl acetate, were scored as PES contaminants at less than the CRQL. All PES contaminants were treated as method blank contaminants during data qualification.

Target analytes 1,2-dichloroethane was originally scored as an analyte missed. The retention time for this compound is incorrect, but the same as the spiked 1,2-dichloropropane, in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed and the resubmission of data corrected the problem. Data qualification was not necessary.

The compound cis-1,3-dichloropropene was originally scored as an analyte missed and trans-1,3-dichloropropene (41 ug/l) was scored as a PES contaminant at greater than the CRQL. The retention order for these two compounds is reversed in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed of this reversal. The resubmitted data corrected this problem and data qualification was not required.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. The DMC stock solution prepared by the laboratory contains a mixture of the cis and trans isomers of 1,3-dichloropropene-d4. The DMC specified as trans-1,3-dichloropropene-d4 on the quantitation lists for instrument H-5975 should have been identified as cis-1,3-dichloropropene-d4, which is not used as a DMC in the contract method. The volatile samples analyzed with instrument H-5975 were processed using the incorrect DMC. The resubmitted data corrected this problem and data qualification was not required.

Low DMC recoveries were observed in semivolatile extractable water sample SESD No. C073101-14 (D44K5) and all compounds associated with these DMCs were "J" qualified.

Low DMC recoveries were observed in semivolatile extractable soil sample SESD Nos. C073006-06 (D44A5), C073006-18 (D44C0), D073006-35 (D44H9), D073006-39 (D44E3), D073006-40 (D44E4), D073006-41 (D44E5), D073006-49 (D44G0), D073006-63 (D44H5), D073006-66 (D44J0), D073006-69 (D44J3) D073006-71 (D44K0), D073006-79 (D44L1), D073006-86 (D44M0), D073006-88 (D44M2), D073006-90 (D44M4), D073006-91 (D44M5), and D073006-94 (D44N0). All compounds associated with these DMCs were "J" qualified.

High DMC recovery was observed for benzo-a-pyrene-d12 in semivolatile extractable soil sample SESD No. C073006-04 (D43Z2). The results for detected compounds associated with this DMC were "J" qualified.

Low recovery and poor precision was observed for acenaphthene in the water MS/MSD performed for semivolatile extractable sample SESD No. C073101-12 (D44K3). Low recovery for N-nitroso-di-n-propylamine and poor precision for 2,4-dinitrotoluene and pyrene was also observed in this MS/MSD. All results for these compounds were "J" qualified in this sample. Low recovery for N-nitroso-di-n-propylamine and acenaphthene was observed and poor precision for acenaphthene was observed in the soil MS/MSD performed for SESD No. C073006-35 (D44P9) and these results were "J" qualified. Also, low recovery was observed for N-nitroso-di-n-propylamine and pyrene in the soil MS/MSD performed for semivolatile extractable sample SESD No. C073006-66 (D44J0) and these results were "J" qualified.

Volatile and semivolatile extractable compounds which exhibited erratic continuing calibration performance were "J" qualified in the associated samples.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

SAMPLES INCLUDED IN THIS REPORT

Project: 07-0507, Ore Knob Mine Site **Contract Lab Case: 36622**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
OK702-DW-001	C073101-01		44D6	Potable Water	7/18/07 09:22	7/24/07 10:34
OK702-DW-001	C073101-02		44D7	Potable Water	7/18/07 09:22	7/24/07 10:34
OK704-DW-001	C073101-03		44F3	Potable Water	7/18/07 13:40	7/24/07 10:34
OK703-DW-001	C073101-04		44F4	Potable Water	7/18/07 10:55	7/24/07 10:34
OK022-SW-001	C073101-05		44F5	Surface Water	7/18/07 09:25	7/24/07 10:34
OK023-SW-001	C073101-06		44F6	Surface Water	7/18/07 10:25	7/24/07 10:34
OK701-DW-001	C073101-07		44F7	Potable Water	7/18/07 14:45	7/24/07 10:34
OK705-DW-001	C073101-08		44F8	Potable Water	7/18/07 14:15	7/24/07 10:34
OK021-SW-001	C073101-09		44G9	Surface Water	7/18/07 13:05	7/24/07 10:34
OK020-SW-001	C073101-11		44K2	Surface Water	7/19/07 09:30	7/24/07 10:34
OK027-SW-001	C073101-12		44K3	Surface Water	7/19/07 08:55	7/24/07 10:34
OK019-SW-001	C073101-13		44K4	Surface Water	7/19/07 12:15	7/24/07 10:34
OK019-SW-002	C073101-14		44K5	Surface Water	7/19/07 12:20	7/24/07 10:34
OK019-SW-003	C073101-15		44K6	Surface Water	7/19/07 12:30	7/24/07 10:34
OK019-SW-004	C073101-16		44K7	Surface Water	7/19/07 12:35	7/24/07 10:34
OK019-SW-005	C073101-17		44K8	Surface Water	7/19/07 12:40	7/24/07 10:34
OK019-SW-005D	C073101-18		44K9	Surface Water	7/19/07 12:45	7/24/07 10:34
OK024-SW-001	C073101-19		44L7	Surface Water	7/19/07 15:40	7/24/07 10:34
OK706-DW-001	C073101-20		44M8	Potable Water	7/19/07 17:15	7/24/07 10:34
OK707-DW-001	C073101-21		44M9	Potable Water	7/19/07 18:20	7/24/07 10:34
OK025-SW-001	C073101-30		44L8	Surface Water	7/19/07 16:50	7/24/07 10:34

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-2	Analyte high in continuing calibration verification standard
QM-1	Matrix Spike Recovery less than method control limits
QM-3	Matrix Spike Precision outside method control limits
QS-3	Surrogate recovery is lower than established control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK702-DW-001
Station ID: OK702

Lab ID: C073101-01
Matrix: Potable Water

MD No:
D No: 44D6 A4

Date Collected: 7/18/07 9:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

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D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK702-DW-001
Station ID: OK702

Lab ID: C073101-01
Matrix: Potable Water

MD No:
D No: 44D6 A4

Date Collected: 7/18/07 9:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK702-DW-001 **Lab ID:** C073101-01

MD No:

Station ID: OK702 **D No: 44D6 A4**

Matrix: Potable Water

Date Collected: 7/18/07 9:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK702-DW-001
Station ID: OK702

Lab ID: C073101-02
Matrix: Potable Water

MD No:
D No: 44D7 A4

Date Collected: 7/18/07 9:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK702-DW-001
Station ID: OK702

Lab ID: C073101-02
Matrix: Potable Water

MD No:
D No: 44D7 A4

Date Collected: 7/18/07 9:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK702-DW-001 **Lab ID:** C073101-02

MD No:

Station ID: OK702 **D No: 44D7 A4**

Matrix: Potable Water

Date Collected: 7/18/07 9:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/24/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/24/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	10	J	ug/L		7/23/07	7/24/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK704-DW-001
Station ID: OK704

Lab ID: C073101-03
Matrix: Potable Water

MD No:
D No: 44F3 A4

Date Collected: 7/18/07 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK704-DW-001 **Lab ID:** C073101-03 **MD No:**

Station ID: OK704 **D No: 44F3 A4**

Matrix: Potable Water

Date Collected: 7/18/07 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK704-DW-001 **Lab ID:** C073101-03

MD No:

Station ID: OK704 **D No: 44F3 A4**

Matrix: Potable Water

Date Collected: 7/18/07 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	20	J	ug/L		7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK703-DW-001
Station ID: OK703

Lab ID: C073101-04
Matrix: Potable Water

MD No:
D No: 44F4 A4

Date Collected: 7/18/07 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK703-DW-001 **Lab ID:** C073101-04 **MD No:**

Station ID: OK703 **D No: 44F4 A4**

Matrix: Potable Water

Date Collected: 7/18/07 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK703-DW-001 **Lab ID:** C073101-04 **MD No:**

Station ID: OK703 **D No: 44F4 A4**

Matrix: Potable Water

Date Collected: 7/18/07 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK022-SW-001
Station ID: OK022

Lab ID: C073101-05
Matrix: Surface Water

MD No:
D No: 44F5 A4

Date Collected: 7/18/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK022-SW-001 **Lab ID:** C073101-05 **MD No:**

Station ID: OK022 **D No: 44F5 A4**

Matrix: Surface Water

Date Collected: 7/18/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK022-SW-001
Station ID: OK022
Lab ID: C073101-05
Matrix: Surface Water
MD No:
D No: 44F5 A4
Date Collected: 7/18/07 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK023-SW-001
Station ID: OK023

Lab ID: C073101-06
Matrix: Surface Water

MD No:
D No: 44F6 A4

Date Collected: 7/18/07 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK023-SW-001
Station ID: OK023
Lab ID: C073101-06
Matrix: Surface Water
MD No:
D No: 44F6 A4

Date Collected: 7/18/07 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK023-SW-001 **Lab ID:** C073101-06 **MD No:**

Station ID: OK023 **D No: 44F6 A4**

Matrix: Surface Water

Date Collected: 7/18/07 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK701-DW-001
Station ID: OK701

Lab ID: C073101-07
Matrix: Potable Water

MD No:
D No: 44F7 A4

Date Collected: 7/18/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK701-DW-001
Station ID: OK701

Lab ID: C073101-07

Matrix: Potable Water

MD No:

D No: 44F7 A4

Date Collected: 7/18/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK701-DW-001 **Lab ID:** C073101-07

MD No:

Station ID: OK701 **D No: 44F7 A4**

Matrix: Potable Water

Date Collected: 7/18/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK705-DW-001
Station ID: OK705

Lab ID: C073101-08
Matrix: Potable Water

MD No:
D No: 44F8 A4

Date Collected: 7/18/07 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK705-DW-001 **Lab ID:** C073101-08 **MD No:**

Station ID: OK705 **D No: 44F8 A4**

Matrix: Potable Water

Date Collected: 7/18/07 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK705-DW-001 **Lab ID:** C073101-08

MD No:

Station ID: OK705 **D No: 44F8 A4**

Matrix: Potable Water

Date Collected: 7/18/07 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK021-SW-001
Station ID: OK021

Lab ID: C073101-09
Matrix: Surface Water

MD No:
D No: 44G9 A4

Date Collected: 7/18/07 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK021-SW-001
Station ID: OK021
Lab ID: C073101-09
Matrix: Surface Water
MD No:
D No: 44G9 A4

Date Collected: 7/18/07 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK021-SW-001
Station ID: OK021
Lab ID: C073101-09
Matrix: Surface Water
MD No:
D No: 44G9 A4
Date Collected: 7/18/07 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/23/07	7/25/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/23/07	7/25/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/25/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK020-SW-001
Station ID: OK020

Lab ID: C073101-11
Matrix: Surface Water

MD No:
D No: 44K2 A4

Date Collected: 7/19/07 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK020-SW-001
Station ID: OK020

Lab ID: C073101-11
Matrix: Surface Water

MD No:
D No: 44K2 A4

Date Collected: 7/19/07 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK020-SW-001
Station ID: OK020
Lab ID: C073101-11
Matrix: Surface Water
MD No:
D No: 44K2 A4
Date Collected: 7/19/07 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK027-SW-001
Station ID: OK027

Lab ID: C073101-12
Matrix: Surface Water

MD No:
D No: 44K3 A4

Date Collected: 7/19/07 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U, J, QM-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U, J, QM-1, QM-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK027-SW-001 **Lab ID:** C073101-12 **MD No:**

Station ID: OK027 **D No: 44K3 A4**

Matrix: Surface Water

Date Collected: 7/19/07 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK027-SW-001
Station ID: OK027

Lab ID: C073101-12
Matrix: Surface Water

MD No:
D No: 44K3 A4

Date Collected: 7/19/07 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	5.0	U, J, QM-1	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U, J, QM-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-001
Station ID: OK019

Lab ID: C073101-13
Matrix: Surface Water

MD No:
D No: 44K4 A4

Date Collected: 7/19/07 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-001
Station ID: OK019

Lab ID: C073101-13
Matrix: Surface Water

MD No:
D No: 44K4 A4

Date Collected: 7/19/07 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-001 **Lab ID:** C073101-13 **MD No:**

Station ID: OK019 **D No: 44K4 A4**

Matrix: Surface Water

Date Collected: 7/19/07 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-002
Station ID: OK019

Lab ID: C073101-14
Matrix: Surface Water

MD No:
D No: 44K5 A4

Date Collected: 7/19/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-002
Station ID: OK019

Lab ID: C073101-14
Matrix: Surface Water

MD No:
D No: 44K5 A4

Date Collected: 7/19/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-002 **Lab ID:** C073101-14

Station ID: OK019

MD No:

D No: 44K5 A4

Matrix: Surface Water

Date Collected: 7/19/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U, J, QS-3	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	10	J	ug/L		7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-003
Station ID: OK019

Lab ID: C073101-15
Matrix: Surface Water

MD No:
D No: 44K6 A4

Date Collected: 7/19/07 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-003
Station ID: OK019

Lab ID: C073101-15
Matrix: Surface Water

MD No:
D No: 44K6 A4

Date Collected: 7/19/07 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-003
Station ID: OK019
Lab ID: C073101-15
Matrix: Surface Water
MD No:
D No: 44K6 A4
Date Collected: 7/19/07 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-004
Station ID: OK019

Lab ID: C073101-16
Matrix: Surface Water

MD No:
D No: 44K7 A4

Date Collected: 7/19/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-004
Station ID: OK019

Lab ID: C073101-16
Matrix: Surface Water

MD No:
D No: 44K7 A4

Date Collected: 7/19/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-004
Station ID: OK019
Lab ID: C073101-16
Matrix: Surface Water
MD No:
D No: 44K7 A4
Date Collected: 7/19/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-005
Station ID: OK019

Lab ID: C073101-17
Matrix: Surface Water

MD No:
D No: 44K8 A4

Date Collected: 7/19/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-005
Station ID: OK019

Lab ID: C073101-17
Matrix: Surface Water

MD No:
D No: 44K8 A4

Date Collected: 7/19/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-005 **Lab ID:** C073101-17

Station ID: OK019

MD No:

D No: 44K8 A4

Matrix: Surface Water

Date Collected: 7/19/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-005D
Station ID: OK019

Lab ID: C073101-18
Matrix: Surface Water

MD No:
D No: 44K9 A4

Date Collected: 7/19/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-005D
Station ID: OK019

Lab ID: C073101-18
Matrix: Surface Water

MD No:
D No: 44K9 A4

Date Collected: 7/19/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK019-SW-005D
Station ID: OK019
Lab ID: C073101-18
Matrix: Surface Water
MD No:
D No: 44K9 A4
Date Collected: 7/19/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK024-SW-001
Station ID: OK024

Lab ID: C073101-19
Matrix: Surface Water

MD No:
D No: 44L7 A4

Date Collected: 7/19/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK024-SW-001
Station ID: OK024

Lab ID: C073101-19
Matrix: Surface Water

MD No:
D No: 44L7 A4

Date Collected: 7/19/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK024-SW-001
Station ID: OK024
Lab ID: C073101-19
Matrix: Surface Water
MD No:
D No: 44L7 A4
Date Collected: 7/19/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK706-DW-001
Station ID: OK706

Lab ID: C073101-20
Matrix: Potable Water

MD No:
D No: 44M8 A4

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK706-DW-001
Station ID: OK706

Lab ID: C073101-20
Matrix: Potable Water

MD No:
D No: 44M8 A4

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK706-DW-001 **Lab ID:** C073101-20 **MD No:**

Station ID: OK706 **D No: 44M8 A4**

Matrix: Potable Water

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK707-DW-001
Station ID: OK707

Lab ID: C073101-21
Matrix: Potable Water

MD No:
D No: 44M9 A4

Date Collected: 7/19/07 18:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK707-DW-001
Station ID: OK707

Lab ID: C073101-21
Matrix: Potable Water

MD No:
D No: 44M9 A4

Date Collected: 7/19/07 18:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK707-DW-001 **Lab ID:** C073101-21

Station ID: OK707

MD No:

D No: 44M9 A4

Matrix: Potable Water

Date Collected: 7/19/07 18:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No:

Sample ID: OK025-SW-001
Station ID: OK025

Lab ID: C073101-30
Matrix: Surface Water

D No: 44L8 A4

Date Collected: 7/19/07 16:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK025-SW-001
Station ID: OK025

Lab ID: C073101-30
Matrix: Surface Water

MD No:
D No: 44L8 A4

Date Collected: 7/19/07 16:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QC-2	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Semi Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK025-SW-001
Station ID: OK025
Lab ID: C073101-30
Matrix: Surface Water
MD No:
D No: 44L8 A4
Date Collected: 7/19/07 16:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	7/25/07	7/27/07	CLP SOM01.1 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
108-95-2	Phenol	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	7/25/07	7/27/07	CLP SOM01.1 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	20	J	ug/L		7/25/07	7/27/07	CLP SOM01.1 B

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

November 6, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 07-0507, Ore Knob Mine Site
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Brian Striggow

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Volatile Organics (VOA)	
Volatile organic compounds	CLP VOA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Report Narrative for Work Order C073006, Project: 07-0507
Site Name: Ore Knob Mine Site, Jefferson, NC
Case No. 36622, Project No. 07-0507, Work Order No. C073006 & C073101
ELEMENT Nos. C073006-01 - C073006-96, C093101-01, C093101-25, C093101-30
Sampling Dates: 07/17-19/07

Inorganic Analysis: CompuChem, Cary, NC
Date Received from Lab: 08/15/07
Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 96 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications.

ICP-AES Analysis

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

Matrix spiked sample recovery for antimony in SDG MD4497 was 7%. All sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for arsenic, cadmium, manganese, selenium, and thallium in SDG MD4497 were all outside the control limits of 75 to 125%. All sample results for arsenic, cadmium, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and zinc in SDG MD44C2 were 16 and -70% respectively. In addition, the matrix duplicate relative percent difference for zinc in SDG MD44C2 was 114%. All sample results for antimony and zinc in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony and zinc in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recovery for antimony and selenium in SDG MD44L2 were both 67%. In addition, the serial dilution percent difference for selenium in the above SDG was 15%. All sample results for antimony in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and thallium in SDG MD44E5 were 65 and 68% respectively. All sample results for antimony and thallium were considered estimated and flagged "J".

Matrix spiked sample recoveries for arsenic and lead in SDG MD44E5 were both 153%. All positive sample results for arsenic and lead in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recovery for antimony in SDG MD44C3 was 13%. All positive sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for lead, manganese, selenium, and thallium in SDG MD44C3 were all outside the control limits of 75-125%. All sample results for lead, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Performance evaluation sample (PES) recoveries for calcium and magnesium were both scored as action low. All positive sample results for calcium and magnesium were considered estimated and flagged "J". All non-detected sample results for calcium and magnesium were considered unusable and flagged "R".

Recoveries for arsenic, copper, iron, lead, nickel, and zinc in the soil PES were all scored as warning low. All sample results for arsenic, copper, iron, lead, nickel, and zinc were considered estimated and flagged "J".

Matrix duplicate relative percent differences for cobalt, copper, and zinc in SDG MD44L2 were all outside the control limits of ± 35%. In addition, the serial dilution for cobalt, copper, and zinc in the above SDG were all outside the control limits of ± 10%. All sample results for cobalt, copper, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in SDG MD4497 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for selenium in SDG MD44C2 was 20%. All sample results for selenium in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and vanadium in SDG MD44L2 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, and vanadium in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for potassium in SDG MD44E5 was 13%. All sample results for potassium in the above SDG were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures for arsenic in sample

C073006-75 and 89 and silver in sample C073006-66. The above sample results were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for arsenic in samples C073006-01, 03, 05, 12, 17, 24, 37, 38, 39, 40, 70, 71, 72, 73, and 76, beryllium in sample C073006-63, 65, 66, and 75, cadmium in samples C073006-05, 09, and 32, cobalt in sample C073006-07, selenium in samples C073006-02, 16, 17, 18, 24, 27,28, 30, 31, 34, 38, 40, and 62, silver in samples C073006-41, 44, 45, 57, 58, 65, 74, 84, 85, and 94, and thallium in samples C073006-20, 25, 55, 64, 66, 68, and 70. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Deliverables

Sample C073006-65 (MD44H8) was mislabeled as sample MD44G8 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Sample C073006-61 (MD44H3) was mislabeled as sample MD44H2 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Organic Analysis: A4 Scientific, The Woodlands, TX

The ESAT Work Team reviewed data for 26 water and 85 soil samples analyzed for volatiles, semivolatile extractables, and aroclors, per CLP statement of work SOM01.1. The samples were received by the laboratory between 07/18/07 and 07/24/07, and the final data package was received on 08/14/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The resubmission of volatile data was received on 09/04/07; the second resubmission of volatile data was received 09/14/07; the third resubmission of volatile data was received 09/20/07. The resubmission of aroclor data was received on 10/11/07, with the final submission of aroclor data received on 10/22/07.

The laboratory satisfied all technical and contractual analysis and extraction holding time limits except for the eight aroclor extracts which required sulfur removal [C073006-19 (D44C1), C073006-33 (D44D5), C073006-39 (D44E3), C073006-40 (D44E4), C073006-41 (D44E5), C073006-52 (D44G3), C073006-74 (D44J8), and C073006-82 (D44L4)]. These extracts exceeded the forty day holding time limit and all aroclor results for these samples were "J" qualified.

Target analytes dichlorodifluoromethane and trichlorofluoromethane were scored as warning low in the water volatile PES. All results for these compounds were "J" qualified in the water volatile samples. Target analyte 1,4-dioxane was scored as action low and all water volatile results, which were nondetects, were "R" qualified. Three compounds, methylene chloride, trichloroethene and methyl acetate, were scored as PES contaminants at less than the CRQL. All PES contaminants were treated as method blank contaminants during data qualification.

Target analytes 1,2-dichloroethane was originally scored as an analyte missed. The retention time for this compound is incorrect, but the same as the spiked 1,2-dichloropropane, in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed and the resubmission of data corrected the problem. Data qualification was not necessary.

The compound cis-1,3-dichloropropene was originally scored as an analyte missed and trans-1,3-dichloropropene (41 ug/l) was scored as a PES contaminant at greater than the CRQL. The retention order for these two compounds is reversed in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed of this reversal. The resubmitted data corrected this problem and data qualification was not required.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. The DMC stock solution prepared by the laboratory contains a mixture of the cis and trans isomers of 1,3-dichloropropene-d4. The DMC specified as trans-1,3-dichloropropene-d4 on the quantitation lists for instrument H-5975 should have been identified as cis-1,3-dichloropropene-d4, which is not used as a DMC in the contract method. The volatile samples analyzed with instrument H-5975 were processed using the incorrect DMC. The resubmitted data corrected this problem and data qualification was not required.

Low DMC recoveries were observed in semivolatile extractable water sample SESD No. C073101-14 (D44K5) and all compounds associated with these DMCs were "J" qualified.

Low DMC recoveries were observed in semivolatile extractable soil sample SESD Nos. C073006-06 (D44A5), C073006-18 (D44C0), D073006-35 (D44H9), D073006-39 (D44E3), D073006-40 (D44E4), D073006-41 (D44E5), D073006-49 (D44G0), D073006-63 (D44H5), D073006-66 (D44J0), D073006-69 (D44J3) D073006-71 (D44K0), D073006-79 (D44L1), D073006-86 (D44M0), D073006-88 (D44M2), D073006-90 (D44M4), D073006-91 (D44M5), and D073006-94 (D44N0). All compounds associated with these DMCs were "J" qualified.

High DMC recovery was observed for benzo-a-pyrene-d12 in semivolatile extractable soil sample SESD No. C073006-04 (D43Z2). The results for detected compounds associated with this DMC were "J" qualified.

Low recovery and poor precision was observed for acenaphthene in the water MS/MSD performed for semivolatile extractable sample SESD No. C073101-12 (D44K3). Low recovery for N-nitroso-di-n-propylamine and poor precision for 2,4-dinitrotoluene and pyrene was also observed in this MS/MSD. All results for these compounds were "J" qualified in this sample. Low recovery for N-nitroso-di-n-propylamine and acenaphthene was observed and poor precision for acenaphthene was observed in the soil MS/MSD performed for SESD No. C073006-35 (D44P9) and these results were "J" qualified. Also, low recovery was observed for N-nitroso-di-n-propylamine and pyrene in the soil MS/MSD performed for semivolatile extractable sample SESD No. C073006-66 (D44J0) and these results were "J" qualified.

Volatile and semivolatile extractable compounds which exhibited erratic continuing calibration performance were "J" qualified in the associated samples.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

SAMPLES INCLUDED IN THIS REPORT

Project: 07-0507, Ore Knob Mine Site **Contract Lab Case: 36622**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
OK400-SL-001	C073006-01	4499	4499	Surface Soil	7/17/07 12:05	7/24/07 07:36
OK401-SL-001	C073006-02	44A0	44A0	Surface Soil	7/17/07 11:00	7/24/07 07:36
OK402-SL-001	C073006-03	44A1	44A1	Surface Soil	7/17/07 12:35	7/24/07 07:36
OK408-SL-001	C073006-34	44D8	44D8	Surface Soil	7/18/07 08:40	7/24/07 07:36
OK414-SL-001	C073006-35	44D9	44D9	Surface Soil	7/18/07 09:50	7/24/07 07:36
OK414-SL-001D	C073006-36	44E0	44E0	Surface Soil	7/18/07 09:50	7/24/07 07:36
OK419-SL-001	C073006-37	44E1	44E1	Surface Soil	7/18/07 12:20	7/24/07 07:36
OK416-SL-001	C073006-38	44E2	44E2	Surface Soil	7/18/07 12:45	7/24/07 07:36
OK021-SD-001	C073006-44	44E8	44E8	Sediment	7/18/07 10:20	7/24/07 07:36
OK024-SD-001	C073006-45	44E9	44E9	Sediment	7/18/07 11:00	7/24/07 07:36
OK425-SL-001	C073006-65	44H8	44H8	Surface Soil	7/19/07 08:35	7/24/07 07:36

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 4499 LIBRTY

D No: 4499 A4

Sample ID: OK400-SL-001
Station ID: OK400

Lab ID: C073006-01
Matrix: Surface Soil

Date Collected: 7/17/07 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		7/18/07	7/18/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	200	U	ug/kg dry	200	7/18/07	7/18/07	CLP SOM01.1 V
67-64-1	Acetone	20	U	ug/kg dry	20	7/18/07	7/18/07	CLP SOM01.1 V
71-43-2	Benzene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-25-2	Bromoform	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
74-83-9	Bromomethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-00-3	Chloroethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
67-66-3	Chloroform	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
74-87-3	Chloromethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V

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D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 4499 LIBRTY

D No: 4499 A4

Sample ID: OK400-SL-001
Station ID: OK400

Lab ID: C073006-01
Matrix: Surface Soil

Date Collected: 7/17/07 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
110-82-7	Cyclohexane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	20	U	ug/kg dry	20	7/18/07	7/18/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	20	U	ug/kg dry	20	7/18/07	7/18/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	20	U	ug/kg dry	20	7/18/07	7/18/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
95-47-6	o-Xylene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
100-42-5	Styrene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
108-88-3	Toluene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	9.8	U	ug/kg dry	9.8	7/18/07	7/18/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/kg dry	10	7/18/07	7/18/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A0 LIBRTY

D No: 44A0 A4

Sample ID: OK401-SL-001
Station ID: OK401

Lab ID: C073006-02
Matrix: Surface Soil

Date Collected: 7/17/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		7/18/07	7/18/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	140	U	ug/kg dry	140	7/18/07	7/18/07	CLP SOM01.1 V
67-64-1	Acetone	17		ug/kg dry	14	7/18/07	7/18/07	CLP SOM01.1 V
71-43-2	Benzene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-25-2	Bromoform	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
74-83-9	Bromomethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-00-3	Chloroethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
67-66-3	Chloroform	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
74-87-3	Chloromethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44A0 LIBRTY

D No: 44A0 A4

Sample ID: OK401-SL-001
Station ID: OK401

Lab ID: C073006-02
Matrix: Surface Soil

Date Collected: 7/17/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
110-82-7	Cyclohexane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	14	U	ug/kg dry	14	7/18/07	7/18/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	14	U	ug/kg dry	14	7/18/07	7/18/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	14	U	ug/kg dry	14	7/18/07	7/18/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
95-47-6	o-Xylene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
100-42-5	Styrene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
108-88-3	Toluene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	6.8	U	ug/kg dry	6.8	7/18/07	7/18/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	7	U	ug/kg dry	7	7/18/07	7/18/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A1 LIBRTY
D No: 44A1 A4

Sample ID: OK402-SL-001
Station ID: OK402

Lab ID: C073006-03
Matrix: Surface Soil

Date Collected: 7/17/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		7/18/07	7/18/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	170	U	ug/kg dry	170	7/18/07	7/18/07	CLP SOM01.1 V
67-64-1	Acetone	29		ug/kg dry	17	7/18/07	7/18/07	CLP SOM01.1 V
71-43-2	Benzene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-25-2	Bromoform	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
74-83-9	Bromomethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-00-3	Chloroethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
67-66-3	Chloroform	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
74-87-3	Chloromethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44A1 LIBRTY
D No: 44A1 A4

Sample ID: OK402-SL-001
Station ID: OK402
Lab ID: C073006-03
Matrix: Surface Soil
Date Collected: 7/17/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
110-82-7	Cyclohexane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	17	U	ug/kg dry	17	7/18/07	7/18/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	17	U	ug/kg dry	17	7/18/07	7/18/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	17	U	ug/kg dry	17	7/18/07	7/18/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
95-47-6	o-Xylene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
100-42-5	Styrene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
108-88-3	Toluene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	8.4	U	ug/kg dry	8.4	7/18/07	7/18/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	8	U	ug/kg dry	8	7/18/07	7/18/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44D8 LIBRTY
D No: 44D8 A4

Sample ID: OK408-SL-001
Station ID: OK408

Lab ID: C073006-34
Matrix: Surface Soil

Date Collected: 7/18/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	120	U	ug/kg dry	120	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	12	U	ug/kg dry	12	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D8 LIBRTY

D No: 44D8 A4

Sample ID: OK408-SL-001

Station ID: OK408

Lab ID: C073006-34

Matrix: Surface Soil

Date Collected: 7/18/07 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	12	U	ug/kg dry	12	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	12	U	ug/kg dry	12	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	12	U	ug/kg dry	12	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	6.0	U	ug/kg dry	6.0	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	6	U	ug/kg dry	6	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D9 LIBRTY

D No: 44D9 A4

Sample ID: OK414-SL-001

Station ID: OK414

Lab ID: C073006-35

Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	34		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	140	U	ug/kg dry	140	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	14	U	ug/kg dry	14	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44D9 LIBRTY

D No: 44D9 A4

Sample ID: OK414-SL-001

Station ID: OK414

Lab ID: C073006-35

Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	14	U	ug/kg dry	14	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	14	U	ug/kg dry	14	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	14	U	ug/kg dry	14	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	6.8	U	ug/kg dry	6.8	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	7	U	ug/kg dry	7	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E0 LIBRTY
D No: 44E0 A4

Sample ID: OK414-SL-001D
Station ID: OK414

Lab ID: C073006-36
Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	6.0		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	99	U	ug/kg dry	99	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	9.9	U	ug/kg dry	9.9	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E0 LIBRTY

D No: 44E0 A4

Sample ID: OK414-SL-001D

Station ID: OK414

Lab ID: C073006-36

Matrix: Surface Soil

Date Collected: 7/18/07 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	9.9	U	ug/kg dry	9.9	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	9.9	U	ug/kg dry	9.9	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	9.9	U	ug/kg dry	9.9	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/kg dry	5.0	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/kg dry	5	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E1 LIBRTY
D No: 44E1 A4

Sample ID: OK419-SL-001
Station ID: OK419

Lab ID: C073006-37
Matrix: Surface Soil

Date Collected: 7/18/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	150	U	ug/kg dry	150	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E1 LIBRTY

D No: 44E1 A4

Sample ID: OK419-SL-001

Station ID: OK419

Lab ID: C073006-37

Matrix: Surface Soil

Date Collected: 7/18/07 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	7	U	ug/kg dry	7	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E2 LIBRTY

D No: 44E2 A4

Sample ID: OK416-SL-001
Station ID: OK416

Lab ID: C073006-38
Matrix: Surface Soil

Date Collected: 7/18/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	150	U	ug/kg dry	150	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E2 LIBRTY
D No: 44E2 A4

Sample ID: OK416-SL-001
Station ID: OK416

Lab ID: C073006-38
Matrix: Surface Soil

Date Collected: 7/18/07 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	7	U	ug/kg dry	7	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E8 LIBRTY
D No: 44E8 A4

Sample ID: OK021-SD-001
Station ID: OK021

Lab ID: C073006-44
Matrix: Sediment

Date Collected: 7/18/07 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	120	U	ug/kg dry	120	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	12	U	ug/kg dry	12	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E8 LIBRTY

D No: 44E8 A4

Sample ID: OK021-SD-001
Station ID: OK021

Lab ID: C073006-44
Matrix: Sediment

Date Collected: 7/18/07 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	12	U	ug/kg dry	12	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	12	U	ug/kg dry	12	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	12	U	ug/kg dry	12	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.9	U	ug/kg dry	5.9	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	7	U	ug/kg dry	7	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622
MD No: 44E9 LIBRTY
D No: 44E9 A4

Sample ID: OK024-SD-001
Station ID: OK024

Lab ID: C073006-45
Matrix: Sediment

Date Collected: 7/18/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	31		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	130	U	ug/kg dry	130	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	13	U	ug/kg dry	13	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44E9 LIBRTY

D No: 44E9 A4

Sample ID: OK024-SD-001

Station ID: OK024

Lab ID: C073006-45

Matrix: Sediment

Date Collected: 7/18/07 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	13	U	ug/kg dry	13	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	13	U	ug/kg dry	13	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	13	U	ug/kg dry	13	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	6.7	U	ug/kg dry	6.7	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	7	U	ug/kg dry	7	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H8 LIBRTY

D No: 44H8 A4

Sample ID: OK425-SL-001
Station ID: OK425

Lab ID: C073006-65
Matrix: Surface Soil

Date Collected: 7/19/07 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	170	U	ug/kg dry	170	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	17	U	ug/kg dry	17	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

MD No: 44H8 LIBRTY

D No: 44H8 A4

Sample ID: OK425-SL-001
Station ID: OK425

Lab ID: C073006-65
Matrix: Surface Soil

Date Collected: 7/19/07 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	17	U	ug/kg dry	17	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	17	U	ug/kg dry	17	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	17	U	ug/kg dry	17	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	8.5	U	ug/kg dry	8.5	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	8	U	ug/kg dry	8	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

November 6, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 07-0507, Ore Knob Mine Site
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Brian Striggow

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Volatile Organics (VOA)	
Volatile organic compounds	CLP VOA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Report Narrative for Work Order C073101, Project: 07-0507
Site Name: Ore Knob Mine Site, Jefferson, NC
Case No. 36622, Project No. 07-0507, Work Order No. C073006 & C073101
ELEMENT Nos. C073006-01 - C073006-96, C093101-01 - C093101-25, C093101-30
Sampling Dates: 07/17-19/07

Inorganic Analysis: CompuChem, Cary, NC
Date Received from Lab: 08/15/07
Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 96 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications.

ICP-AES Analysis

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

Matrix spiked sample recovery for antimony in SDG MD4497 was 7%. All sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for arsenic, cadmium, manganese, selenium, and thallium in SDG MD4497 were all outside the control limits of 75 to 125%. All sample results for arsenic, cadmium, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and zinc in SDG MD44C2 were 16 and -70% respectively. In addition, the matrix duplicate relative percent difference for zinc in SDG MD44C2 was 114%. All sample results for antimony and zinc in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony and zinc in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recovery for antimony and selenium in SDG MD44L2 were both 67%. In addition, the serial dilution percent difference for selenium in the above SDG was 15%. All sample results for antimony in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recoveries for antimony and thallium in SDG MD44E5 were 65 and 68% respectively. All sample results for antimony and thallium were considered estimated and flagged "J".

Matrix spiked sample recoveries for arsenic and lead in SDG MD44E5 were both 153%. All positive sample results for arsenic and lead in the above SDG were considered estimated and flagged "J".

Matrix spiked sample recovery for antimony in SDG MD44C3 was 13%. All positive sample results for antimony in the above SDG were considered estimated and flagged "J". All non-detected sample results for antimony in the above SDG were considered unusable and flagged "R".

Matrix spiked sample recoveries for lead, manganese, selenium, and thallium in SDG MD44C3 were all outside the control limits of 75-125%. All sample results for lead, manganese, selenium, and thallium in the above SDG were considered estimated and flagged "J".

Performance evaluation sample (PES) recoveries for calcium and magnesium were both scored as action low. All positive sample results for calcium and magnesium were considered estimated and flagged "J". All non-detected sample results for calcium and magnesium were considered unusable and flagged "R".

Recoveries for arsenic, copper, iron, lead, nickel, and zinc in the soil PES were all scored as warning low. All sample results for arsenic, copper, iron, lead, nickel, and zinc were considered estimated and flagged "J".

Matrix duplicate relative percent differences for cobalt, copper, and zinc in SDG MD44L2 were all outside the control limits of ± 35%. In addition, the serial dilution for cobalt, copper, and zinc in the above SDG were all outside the control limits of ± 10%. All sample results for cobalt, copper, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in SDG MD4497 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel, vanadium, and zinc in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for selenium in SDG MD44C2 was 20%. All sample results for selenium in the above SDG were considered estimated and flagged "J".

Serial dilution percent differences for aluminum, barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and vanadium in SDG MD44L2 were all outside the control limits of ± 10%. All sample results for aluminum, barium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, and vanadium in the above SDG were considered estimated and flagged "J".

Serial dilution percent difference for potassium in SDG MD44E5 was 13%. All sample results for potassium in the above SDG were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures for arsenic in sample

C073006-75 and 89 and silver in sample C073006-66. The above sample results were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for arsenic in samples C073006-01, 03, 05, 12, 17, 24, 37, 38, 39, 40, 70, 71, 72, 73, and 76, beryllium in sample C073006-63, 65, 66, and 75, cadmium in samples C073006-05, 09, and 32, cobalt in sample C073006-07, selenium in samples C073006-02, 16, 17, 18, 24, 27,28, 30, 31, 34, 38, 40, and 62, silver in samples C073006-41, 44, 45, 57, 58, 65, 74, 84, 85, and 94, and thallium in samples C073006-20, 25, 55, 64, 66, 68, and 70. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Deliverables

Sample C073006-65 (MD44H8) was mislabeled as sample MD44G8 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Sample C073006-61 (MD44H3) was mislabeled as sample MD44H2 in the plasma raw data by the laboratory. The data reviewer identified the sample by the laboratory sample identification number.

Organic Analysis: A4 Scientific, The Woodlands, TX

The ESAT Work Team reviewed data for 26 water and 85 soil samples analyzed for volatiles, semivolatile extractables, and aroclors, per CLP statement of work SOM01.1. The samples were received by the laboratory between 07/18/07 and 07/24/07, and the final data package was received on 08/14/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The resubmission of volatile data was received on 09/04/07; the second resubmission of volatile data was received 09/14/07; the third resubmission of volatile data was received 09/20/07. The resubmission of aroclor data was received on 10/11/07, with the final submission of aroclor data received on 10/22/07.

The laboratory satisfied all technical and contractual analysis and extraction holding time limits except for the eight aroclor extracts which required sulfur removal [C073006-19 (D44C1), C073006-33 (D44D5), C073006-39 (D44E3), C073006-40 (D44E4), C073006-41 (D44E5), C073006-52 (D44G3), C073006-74 (D44J8), and C073006-82 (D44L4)]. These extracts exceeded the forty day holding time limit and all aroclor results for these samples were "J" qualified.

Target analytes dichlorodifluoromethane and trichlorofluoromethane were scored as warning low in the water volatile PES. All results for these compounds were "J" qualified in the water volatile samples. Target analyte 1,4-dioxane was scored as action low and all water volatile results, which were nondetects, were "R" qualified. Three compounds, methylene chloride, trichloroethene and methyl acetate, were scored as PES contaminants at less than the CRQL. All PES contaminants were treated as method blank contaminants during data qualification.

Target analytes 1,2-dichloroethane was originally scored as an analyte missed. The retention time for this compound is incorrect, but the same as the spiked 1,2-dichloropropane, in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed and the resubmission of data corrected the problem. Data qualification was not necessary.

The compound cis-1,3-dichloropropene was originally scored as an analyte missed and trans-1,3-dichloropropene (41 ug/l) was scored as a PES contaminant at greater than the CRQL. The retention order for these two compounds is reversed in the initial and continuing calibrations for instrument H-5975. The USEPA TOPO was informed of this reversal. The resubmitted data corrected this problem and data qualification was not required.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. The DMC stock solution prepared by the laboratory contains a mixture of the cis and trans isomers of 1,3-dichloropropene-d4. The DMC specified as trans-1,3-dichloropropene-d4 on the quantitation lists for instrument H-5975 should have been identified as cis-1,3-dichloropropene-d4, which is not used as a DMC in the contract method. The volatile samples analyzed with instrument H-5975 were processed using the incorrect DMC. The resubmitted data corrected this problem and data qualification was not required.

Low DMC recoveries were observed in semivolatile extractable water sample SESD No. C073101-14 (D44K5) and all compounds associated with these DMCs were "J" qualified.

Low DMC recoveries were observed in semivolatile extractable soil sample SESD Nos. C073006-06 (D44A5), C073006-18 (D44C0), D073006-35 (D44H9), D073006-39 (D44E3), D073006-40 (D44E4), D073006-41 (D44E5), D073006-49 (D44G0), D073006-63 (D44H5), D073006-66 (D44J0), D073006-69 (D44J3) D073006-71 (D44K0), D073006-79 (D44L1), D073006-86 (D44M0), D073006-88 (D44M2), D073006-90 (D44M4), D073006-91 (D44M5), and D073006-94 (D44N0). All compounds associated with these DMCs were "J" qualified.

High DMC recovery was observed for benzo-a-pyrene-d12 in semivolatile extractable soil sample SESD No. C073006-04 (D43Z2). The results for detected compounds associated with this DMC were "J" qualified.

Low recovery and poor precision was observed for acenaphthene in the water MS/MSD performed for semivolatile extractable sample SESD No. C073101-12 (D44K3). Low recovery for N-nitroso-di-n-propylamine and poor precision for 2,4-dinitrotoluene and pyrene was also observed in this MS/MSD. All results for these compounds were "J" qualified in this sample. Low recovery for N-nitroso-di-n-propylamine and acenaphthene was observed and poor precision for acenaphthene was observed in the soil MS/MSD performed for SESD No. C073006-35 (D44P9) and these results were "J" qualified. Also, low recovery was observed for N-nitroso-di-n-propylamine and pyrene in the soil MS/MSD performed for semivolatile extractable sample SESD No. C073006-66 (D44J0) and these results were "J" qualified.

Volatile and semivolatile extractable compounds which exhibited erratic continuing calibration performance were "J" qualified in the associated samples.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

SAMPLES INCLUDED IN THIS REPORT

Project: 07-0507, Ore Knob Mine Site **Contract Lab Case: 36622**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
OK702-DW-001	C073101-01		44D6	Potable Water	7/18/07 09:22	7/24/07 10:34
OK704-DW-001	C073101-03		44F3	Potable Water	7/18/07 13:40	7/24/07 10:34
OK703-DW-001	C073101-04		44F4	Potable Water	7/18/07 10:55	7/24/07 10:34
OK701-DW-001	C073101-07		44F7	Potable Water	7/18/07 14:45	7/24/07 10:34
OK705-DW-001	C073101-08		44F8	Potable Water	7/18/07 14:15	7/24/07 10:34
OK021-SW-001	C073101-09		44G9	Surface Water	7/18/07 13:05	7/24/07 10:34
OK-QC-TW-001	C073101-10		44H7	Trip Blank - Water	7/19/07 08:34	7/24/07 10:34
OK024-SW-001	C073101-19		44L7	Surface Water	7/19/07 15:40	7/24/07 10:34
OK706-DW-001	C073101-20		44M8	Potable Water	7/19/07 17:15	7/24/07 10:34
OK707-DW-001	C073101-21		44M9	Potable Water	7/19/07 18:20	7/24/07 10:34
OK-QC-TW-02	C073101-22		44N2	Trip Blank - Water	7/19/07 19:10	7/24/07 10:34
OK-QC-TS-03	C073101-23		44H9	Trip Blank - Soil	7/19/07 12:32	7/24/07 10:34
OK-QC-TS-02	C073101-24		44F0	Trip Blank - Soil	7/18/07 14:04	7/24/07 10:34
OK-QC-TS-01	C073101-25		44A2	Trip Blank - Soil	7/17/07 14:49	7/24/07 10:34

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D.A.R.T. Id: 07-0507

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP06	PE sample recovery less than control limits.
CLP07	PE sample recovery outside warning limits.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-2	Analyte high in continuing calibration verification standard
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK702-DW-001
Station ID: OK702

Lab ID: C073101-01
Matrix: Potable Water

MD No:
D No: 44D6 A4

Date Collected: 7/18/07 9:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/23/07	7/23/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK702-DW-001
Station ID: OK702

Lab ID: C073101-01
Matrix: Potable Water

MD No:
D No: 44D6 A4

Date Collected: 7/18/07 9:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK704-DW-001
Station ID: OK704

Lab ID: C073101-03
Matrix: Potable Water

MD No:
D No: 44F3 A4

Date Collected: 7/18/07 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/23/07	7/23/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U, J, QC-2	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK704-DW-001
Station ID: OK704

Lab ID: C073101-03
Matrix: Potable Water

MD No:
D No: 44F3 A4

Date Collected: 7/18/07 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK703-DW-001
Station ID: OK703

Lab ID: C073101-04
Matrix: Potable Water

MD No:
D No: 44F4 A4

Date Collected: 7/18/07 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/23/07	7/23/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK703-DW-001
Station ID: OK703

Lab ID: C073101-04
Matrix: Potable Water

MD No:
D No: 44F4 A4

Date Collected: 7/18/07 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK701-DW-001
Station ID: OK701

Lab ID: C073101-07
Matrix: Potable Water

MD No:
D No: 44F7 A4

Date Collected: 7/18/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/23/07	7/23/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK701-DW-001
Station ID: OK701

Lab ID: C073101-07
Matrix: Potable Water

MD No:
D No: 44F7 A4

Date Collected: 7/18/07 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK705-DW-001
Station ID: OK705

Lab ID: C073101-08
Matrix: Potable Water

MD No:
D No: 44F8 A4

Date Collected: 7/18/07 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/23/07	7/23/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK705-DW-001
Station ID: OK705

Lab ID: C073101-08
Matrix: Potable Water

MD No:
D No: 44F8 A4

Date Collected: 7/18/07 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK021-SW-001
Station ID: OK021

Lab ID: C073101-09
Matrix: Surface Water

MD No:
D No: 44G9 A4

Date Collected: 7/18/07 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/23/07	7/23/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK021-SW-001
Station ID: OK021

Lab ID: C073101-09
Matrix: Surface Water

MD No:
D No: 44G9 A4

Date Collected: 7/18/07 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/23/07	7/23/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/23/07	7/23/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/23/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TW-001

Lab ID: C073101-10

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 44H7 A4

Date Collected: 7/19/07 8:34

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/24/07	7/24/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/24/07	7/24/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TW-001

Lab ID: C073101-10

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 44H7 A4

Date Collected: 7/19/07 8:34

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/24/07	7/24/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/24/07	7/24/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/24/07	7/24/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	1.9	J, CLP01	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/24/07	7/24/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/23/07	7/24/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK024-SW-001
Station ID: OK024

Lab ID: C073101-19
Matrix: Surface Water

MD No:
D No: 44L7 A4

Date Collected: 7/19/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/30/07	7/30/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK024-SW-001
Station ID: OK024

Lab ID: C073101-19
Matrix: Surface Water

MD No:
D No: 44L7 A4

Date Collected: 7/19/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/30/07	7/30/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK706-DW-001
Station ID: OK706

Lab ID: C073101-20
Matrix: Potable Water

MD No:
D No: 44M8 A4

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/30/07	7/30/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK706-DW-001
Station ID: OK706

Lab ID: C073101-20
Matrix: Potable Water

MD No:
D No: 44M8 A4

Date Collected: 7/19/07 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/30/07	7/30/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK707-DW-001
Station ID: OK707

Lab ID: C073101-21
Matrix: Potable Water

MD No:
D No: 44M9 A4

Date Collected: 7/19/07 18:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP06	ug/L	100	7/30/07	7/30/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK707-DW-001
Station ID: OK707

Lab ID: C073101-21
Matrix: Potable Water

MD No:
D No: 44M9 A4

Date Collected: 7/19/07 18:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/30/07	7/30/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TW-02

Lab ID: C073101-22

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 44N2 A4

Date Collected: 7/19/07 19:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	100	U, R, CLP07	ug/L	100	7/30/07	7/30/07	CLP SOM01.1 V
67-64-1	Acetone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
71-43-2	Benzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TW-02

Lab ID: C073101-22

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 44N2 A4

Date Collected: 7/19/07 19:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, CLP07	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	7/30/07	7/30/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
100-42-5	Styrene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
108-88-3	Toluene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, CLP07	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	7/30/07	7/30/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	7/30/07	7/30/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TS-03

Lab ID: C073101-23

MD No:

Station ID:

Matrix: Trip Blank - Soil

D No: 44H9 A4

Date Collected: 7/19/07 12:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	63		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	15	U, J, QC-2	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	300	U	ug/kg dry	300	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	30	U	ug/kg dry	30	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TS-03

Lab ID: C073101-23

MD No:

Station ID:

Matrix: Trip Blank - Soil

D No: 44H9 A4

Date Collected: 7/19/07 12:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	30	U	ug/kg dry	30	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	30	U	ug/kg dry	30	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	30	U	ug/kg dry	30	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	20	U	ug/kg dry	20	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TS-02

Lab ID: C073101-24

MD No:

Station ID:

Matrix: Trip Blank - Soil

D No: 44F0 A4

Date Collected: 7/18/07 14:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		7/26/07	7/26/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	7.3	U, J, QC-2	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	150	U	ug/kg dry	150	7/26/07	7/26/07	CLP SOM01.1 V
67-64-1	Acetone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
71-43-2	Benzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-25-2	Bromoform	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
74-83-9	Bromomethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-00-3	Chloroethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
67-66-3	Chloroform	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
74-87-3	Chloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TS-02
Station ID:

Lab ID: C073101-24
Matrix: Trip Blank - Soil

MD No:
D No: 44F0 A4

Date Collected: 7/18/07 14:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
110-82-7	Cyclohexane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	15	U	ug/kg dry	15	7/26/07	7/26/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
95-47-6	o-Xylene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
100-42-5	Styrene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
108-88-3	Toluene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	7.3	U	ug/kg dry	7.3	7/26/07	7/26/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	7	U	ug/kg dry	7	7/26/07	7/26/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TS-01

Lab ID: C073101-25

MD No:

Station ID:

Matrix: Trip Blank - Soil

D No: 44A2 A4

Date Collected: 7/17/07 14:49

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		7/18/07	7/18/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
71-55-6	1,1,1-Trichloroethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
79-00-5	1,1,2-Trichloroethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-34-3	1,1-Dichloroethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
87-61-6	1,2,3-Trichlorobenzene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
120-82-1	1,2,4-Trichlorobenzene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
106-93-4	1,2-Dibromoethane (EDB)	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
95-50-1	1,2-Dichlorobenzene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
107-06-2	1,2-Dichloroethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
78-87-5	1,2-Dichloropropane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
541-73-1	1,3-Dichlorobenzene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
106-46-7	1,4-Dichlorobenzene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
123-91-1	1,4-Dioxane	120	U	ug/kg dry	120	7/18/07	7/18/07	CLP SOM01.1 V
67-64-1	Acetone	23		ug/kg dry	12	7/18/07	7/18/07	CLP SOM01.1 V
71-43-2	Benzene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
74-97-5	Bromochloromethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-27-4	Bromodichloromethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-25-2	Bromoform	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
74-83-9	Bromomethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-15-0	Carbon disulfide	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
56-23-5	Carbon Tetrachloride	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
108-90-7	Chlorobenzene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-00-3	Chloroethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
67-66-3	Chloroform	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
74-87-3	Chloromethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 07-0507

Volatile Organics

Project: 07-0507, Ore Knob Mine Site

Contract Lab Case: 36622

Sample ID: OK-QC-TS-01
Station ID:

Lab ID: C073101-25
Matrix: Trip Blank - Soil

MD No:
D No: 44A2 A4

Date Collected: 7/17/07 14:49

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
10061-01-5	cis-1,3-Dichloropropene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
110-82-7	Cyclohexane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
124-48-1	Dibromochloromethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-71-8	Dichlorodifluoromethane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
100-41-4	Ethyl Benzene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
98-82-8	Isopropylbenzene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
79-20-9	Methyl Acetate	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
591-78-6	Methyl Butyl Ketone	12	U	ug/kg dry	12	7/18/07	7/18/07	CLP SOM01.1 V
78-93-3	Methyl Ethyl Ketone	12	U	ug/kg dry	12	7/18/07	7/18/07	CLP SOM01.1 V
108-10-1	Methyl Isobutyl Ketone	12	U	ug/kg dry	12	7/18/07	7/18/07	CLP SOM01.1 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
108-87-2	Methylcyclohexane	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-09-2	Methylene Chloride	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
95-47-6	o-Xylene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
100-42-5	Styrene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
108-88-3	Toluene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
156-60-5	trans-1,2-Dichloroethene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
10061-02-6	trans-1,3-Dichloropropene	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
79-01-6	Trichloroethene (Trichloroethylene)	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-69-4	Trichlorofluoromethane (Freon 11)	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
75-01-4	Vinyl chloride	6.1	U	ug/kg dry	6.1	7/18/07	7/18/07	CLP SOM01.1 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	6	U	ug/kg dry	6	7/18/07	7/18/07	CLP SOM01.1 V

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 -www.gel.com

Certificate of Analysis

Company : Black & Veatch
Address ; Attn: Chris Allen a! Black & Ve.itch
1 120 Sanctuar> Park* a>. Suite 2(10
Alpharctta. Georgia 30004
Contact: Chris Allen
Project: **Ore Knob, N.C. TO No. 4**

Report Date: August 3. 2007

Client Sample ID: **OK024-SW-001**
Sample ID: **190128017**
Matrix: **Surface Water**
Collect Date: **19-JUL-07 15:40**
Receive Date: **24-JUL-07**
Collector: client

Project: **BLVEO0807**
Client ID: **BLVE001**

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis Federal											
EPA 335.3 Cyanide, Total Federal											
Cyanide, Total	J	3.52	1.50	5.00	**iig/L**	**1**	**KLPI**	08/01/07	1012	654301	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 335.3	EPA 335.3 Total Cyanide	KXL2	07/31/07	2000	654300

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 335.3	

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Com pan} : Black & Vcatch
Address : Ailn: Chris Allen a! Black & Vcatch
1120 Sanctuary Parkway. Suite 200
Alpharctla. Georgia 30004
Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO No. 4**

Report Date: August 3. 2007

Client Sample ID: OK025-SW-001
Sample ID: 190128018
Matrix: Surface Water
Collect Date: 19-JUL-07 16:50
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE00I

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis Federal											
EPA 335.3 Cyanide, Total Federal											
Cyanide. Total	Li	-0.227	1.50	5.00	ug/L	]	KLP1	08/01/07	1013	654301	]

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 335.3	EPA 335.3 Total Cyanide	KXL2	07/31/07	2000	654300

The following Analytical Methods were performed

Method	Description	Analyst Comments
]	EPA 335.3	

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Compan\ : Black & Veatch
Address : Attn: Chris Allen at Black <£ Veatch
I 120 Sanctuary Parkway, Suite 200
Alpharetta. Georgia 30004
Com act: Chris Allen
Projcci: **Ore Knob.** N.C. **TO** No. **4**

Report Date: August 3. 2007

Client Sample ID: OK-QC-PB-Ol
Sample ID: 190128021
Matrix: Water
CollectDate: 19-JUL-07 19:12
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis Federal										
EPA 335.3 Cyanide, Total Federal										
Cyanide. Total	U	-0.293	1.50	5.00	ug/L	1	KLP1 08/01/07	1014	654301	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 335.3	EPA 335.3 Total Cyanide	KXL2	07/31/07	2000	654300

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 335.3	

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Biack & Veatch
Address : Attn: Chris Allen at Black & Veatch
1120 Sanctuary Parkway, Suite 200
Alpharetta, Georgia 30004
Contact: Chris Allen
Project: Ore Knob, N.C. TO No. 4

Report Date: August 9, 2007

Client Sample ID: OK701-DW-001
Sample ID: 189991001
Matrix: Drinking Water (Potable)
Collect Date: 18-JUL-07 14:45
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		0.791	0.066	0.200	rag/L	1	RXM107/24/07	1546	653703	1
Sulfate		9.28	0.100	0.400	mg/L	1				
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		78.0	2.38	10.0	mg/L		SXS2 07/25/07	1343	653237	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	TJ	0.00	0.570	5.00	mg/L		NXM 07/25/07 1	1243	653246	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM207/24/07	1506	653459	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		37.7	0.725	1.00	mg/L		AXC2 07/27/07	1130	653480	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Black &Veatch
Address : Attn: Chris Allen at Black & Veatch
1120 Sanctuary Parkway, Suite 200
Alpharetta, Georgia 30004
Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO** No. **4**

Report Date: August 9, 2007

Client Sample ID: OK702-DW-001
Sample ID: 189991002
Matrix: Drinking Water (Potable)
Collect Date: 18-JUL-07 09:22
Receive Date: 20-JUL-07
Collector: client

Proiect: BLVE00807
Client **ID:** BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride		5.89	0.066	0.200	mg/L	1	RXM1	07/24/07	1606	653703	1
Sulfate		478	2.00	8.00	mg/L	20	RXM1	07/25/07	2048	653703	2
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids		756	2.38	10.0	mg/L		SXS2	07/25/07	1343	653237	3
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	j	3.00	0.570	5.00	mg/L		NXM 1	07/25/07	1243	653246	4
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		59.1	0.500	10.0	mg/L		BXM2	07/24/07	1509	653459	5
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03		5.53	0.725	1.00	mg/L		AXC2	07/27/07	1137	653480	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob, N.C. TO No. 4**

Report Date: August 9, 2007

Client Sample ID: OK702-DW-001D
Sample ID: 189991003
Matrix: Drinking Water (Potable)
Collect Date:]8-JUL-07 09:22
Receive Date: 20-JUL-07
Collector: Client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		5.65	0.066	0.200	mg/L	1	RXM1 07/24/07	1627	653703	1
Sulfate		466	2.00	8.00	mg/L	20	RXM107/25/07	2108	653703	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		724	2.38	10.0	mg/L		SXS2 07/25/07	1343	653237	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	J	1.80	0.570	5.00	mg/L		NXM 07/25/07 1	1243	653246	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		59.1	0.500	10.0	mg/L		BXM207/24/07	1516	653459	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		5.53	0.725	1.00	mg/L		AXC2 07/27/07	1140	653480	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Report Date: August 9, 2007

Client Sample ID: OK703-DW-001
Sample ID: 189991004
Matrix: Drinking Water (Potable)
CollectDate: 18-JUL-0710:55
Receive Date: 20-JUL-07
Collector: client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time	Batch	Method
Ion Chromatography Federal									
EPA 300.0 Anions Liquid									
Chloride		1.26	0.066	0.200	mg/L	1	RXM1 07/24/07 1647	653703	1
Sulfate		13.6	0.100	0.400	mg/L	1			
Solids Analysis Federal									
EPA 160.1 Solids, Dissolved-F									
Total Dissolved Solids		50.0	2.38	10.0	mg/L		SXS2 07/25/07 1343	653237	2
EPA 160.2 Total Suspended Liq									
Total Suspended Solids	U	0.100	0.570	5.00	mg/L		NXM 1 07/25/07 1243	653246	3
Titration Analysis Federal									
EPA 305.1 Acidity									
Acidity		26.9	0.500	10.0	mg/L		BXM2 07/24/07 1550	653459	4
EPA 310.1 Total Alkalinity Federal									
Alkalinity, Total as CaC03		7.04	0.725	1.00	mg/L		AXC2 07/27/07 1143	653480	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob, N.C. TO No. 4**

Client Sample ID: OK704-DW-001
Sample ID: 189991005
Matrix: Drinking Water (Potable)
Collect Date: 18-JUL-07 13:30
Receive Date: 20-JUL-07
Collector: Client
Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride		2.22	0.066	0.200	mg/L	1	RXM1	07/24/07	1707	653703	1
Sulfate		16.6	0.100	0.400	mg/L	1					
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids		75.0	2.38	10.0	mg/L		SXS2	07/25/07	1343	653237	2
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	u	0.100	0.570	5.00	mg/L		NXM 1	07/25/07	1243	653246	3
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		13.4	0.500	10.0	mg/L		BXM2	07/24/07	1554	653459	4
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03		18.1	0.725	1.00	mg/L		AXC2	07/27/07	1146	653480	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: Ore Knob, N.C. TO No. 4

Client Sample ID: OK705-DW-001
Sample ID: 189991006
Matrix: Drinking Water (Potable)
Collect Date: 18-JUL-07 14:13
Receive Date: 20-JUL-07
Collector: Client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride		0.982	0.066	0.200	mg/L	1	RXM1	07/24/07	1808	653703	1
Sulfate		11.5	0.100	0.400	mg/L	1					
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids		85.0	2.38	10.0	mg/L		SXS2	07/25/07	1343	653237	2
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	u	0.200	0.570	5.00	mg/L		NXM 1	07/25/07	1243	653246	3
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		13.4	0.500	10.0	mg/L		BXM2	07/24/07	1601	653459	4
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03		35.2	0.725	1.00	mg/L		AXC2	07/27/07	1154	653480	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	**EPA** 300.0	
2	**EPA** 160.1	
3	EPA 160.2	
4	**EPA** 305.1	
5	**EPA** 310.1	

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Report Date: August 9, 2007

Client Sample ID: OK006-SW-001
Sample ID: 189991007
Matrix: Surface Water
CollectDate: 18-JUL-07 18:15
Receive Date: 20-JUL-07
Collector: client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		0.867	0.066	0.200	mg/L	1	RXM107/24/07	1909	653703	1
Sulfate		412	2.00	8.00	mg/L	20	RXM1 07/25/07	2128	653703	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		383	2.38	10.0	mg/L		SXS2 07/25/07	1343	653237	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		23.0	1.14	5.00	mg/L		NXM I 07/25/07	1243	653246	4
Titration Analysis Federal										
EPA 305.1 Acidiry										
Acidity		150	0.500	10.0	mg/L		BXM207/24/07	1606	653459	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	**u**	0.00	0.725	1.00	mg/L		AXC2 07/27/07	1157	653480	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Report Date: August 9, 2007

Client Sample ID: OK007-SW-001
Sample ID: 189991008
Matrix: Surface Water
Collect Date: 18-JUL-07 17:40
Receive Date: 20-JUL-07
Collector: client

Project: BLVE0O807
Client **ID: BLVE001**

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		0.888	0.066	0.200	mg/L	1	RXM1 07/24/07	1930	653703	1
Sulfate		19.1	0.100	0.400	mg/L	1				
Solids Analysis Federal										
EPA 160.1 Solids. Dissolved-F										
Total Dissolved Solids		35.0	2.38	10.0	mg/L		SXS2 07/25/07	1343	653237	2
EPA 160.2 Total Suspended Liq										
Total Suspended Soiids	J	6.33	1.90	8.33	mg/L		NXM 07/25/07 1	1243	653246	3
Titration Analysis Federal										
***EPA** 305.1 Acidity*										
Acidity		13.4	0.500	10.0	mg/L		BXM207/24/07	1609	653459	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	\j	0.00	0.725	1.00	mg/L		AXC2 07/27/07	1158	653480	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	**EPA** 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Report Date: August 9, 2007
Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO** No. *4*

Client Sample ID: OK008-SW-001
Sample ID: 189991009
Matrix: Surface Water
Collect Date: 18-JUL-07 16:48
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride		0.793	0.066	0.200	mg/L	1	RXM3	07/24/07	1950	653703	1
Sulfate		107	0.500	2.00	mg/L	5	RXM1	07/25/07	2149	653703	2
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids		121	2.38	10.0	mg/L		SXS2	07/25/07	1343	653237	3
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	j	1.80	0.570	5.00	mg/L		NXM 1	07/25/07	1243	653246	4
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		45.7	0.500	10.0	mg/L		BXM2	07/24/07	1612	653459	5
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03	**u**	0.00	0.725	1.00	mg/L		AXC2	07/27/07	1159	653480	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Report Date: August 9, 2007
Contact: Chris Allen
Project: Ore Knob, N.C. TO No. 4

Client Sample ID: OK009-SW-001
Sample ID: 189991010
Matrix: Surface Water
CollectDate: 18-JUL-0712:30
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client **ID:** BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride	*JJ*	0.00	13.2	40.0	mg/L	200	RXM107/25/07	2209	653703	1
Sulfate		10800	50.0	200	mg/L	500	RXM1 07/26/07	1233	653703	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		13200	2.38	10.0	mg/L		NXM 07/24/07 1	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	H	591	2.85	12.5	mg/L		NXM 07/30/07 1	0928	653246	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		5130	0.500	10.0	mg/L		BXM207/24/07	1615	653459	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	**u**	0.00	0.725	1.00	mg/L		AXC2 07/31/07	1143	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Report Date: August 9,2007
Contact: Chris Allen
Project: **Ore Knob, N.C. TO No. 4**

Client Sample ID: OK010-SW-001
SamplelD: 189991011
Matrix: Surface Water
Collect Date: 18-JUL-07 12:58
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride	U	0.00	13.2	40.0	mg/L	200	RXM1 07/25/07	2310	653703	1
Sulfate		5340	20.0	80.0	mg/L	200				
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		8260	2.38	10.0	mg/L		NXM 07/24/07 1	1241	653239	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		179	5.70	25.0	mg/L		NXM 07/25/07 1	1243	653246	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		1210	0.500	10.0	mg/L		BXM207/24/07	1647	653459	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	rj	0.00	0.725	1.00	mg/L		AXC2 07/31/07	1146	654861	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Project: **Ore Knob,** N.C. **TO** No. 41

Report Date: August 9, 2007

Client Sample ID: OKOll-SW-001
Sample ID: 189991012
Matrix: Surface Water
Collect Date: 38- JUL-07 15:57
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		0.888	0.066	0.200	mg/L	1	RXM107/24/07	2132	653703	1
Sulfate		1050	5-00	20.0	mg/L	50	RXM107/26/07	1334	653703	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		1100	2.38	10.0	mg/L		NXM 1 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		135	0.570	5.00	mg/L		NXM 1 07/25/07	1243	653246	4
Titration Analysis Federal										
EPA 305J Acidity										
Acidity		559	0.500	10.0	mg/L		BXM207/24/07	1659	653459	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	\j	0.00	0.725	1.00	mg/L		AXC2 07/31/07	1148	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob, N.C. TO No. 4**

Report Date: August 9, 2007

Client Sample ID: OK014-SW-001
Sample ID: 189991013
Matrix: Surface Water
CoIlectDate: 18-JUL-0718:00
Receive Date: 20-JUL-07
Collector; Client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		0.798	0.066	0.200	mg/L	1	RXM1 07/24/07	2152	653703	1
Sulfate		1130	5.00	20.0	mg/L	50	RXM107/26/07	1354	653703	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		1020	2.38	10.0	mg/L		NXM 1 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		6.00	0.570	5.00	mg/L		NXM 1 07/25/07	1243	653246	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		524	0.500	10.0	mg/L		BXM207/24/07	1707	653459	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	u	0.00	0.725	1.00	mg/L		AXC2 07/31/07	1149	654861	6

The foUowing Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Contact: Chris Allen
Project: Ore Knob, N.C. TO No. 4

Report Date: August 9, 2007

Client Sample ID: OK014-SW-001D
Sample ED: 189991014
Matrix: Surface Water
Collect Date: 18-JUL-07 18:05
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Uquid										
Chloride		0.826	0.066	0.200	mg/L	1	RXM107/24/07	2212	653703	1
Sulfate		1170	5.00	20.0	mg/L	50	RXM107/26/07	1415	653703	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		1040	2.38	10.0	mg/L		NXM 1 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		5.20	0.570	5.00	mg/L		NXM 1 07/25/07	1243	653246	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		529	0.500	10.0	mg/L		BXM207/24/07	1713	653459	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	u	0-00	0.725	1.00	mg/L		AXC2 07/31/07	1149	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Certificate of Analysis

Company : Black & Veatch
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Alpharetta, Georgia 30004
Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO No. 4**

Report Date: August 9, 2007

Client Sample ID: OK015-SW-001
Sample **ID:** 189991015
Matrix: Surface Water
CollectDate: 18-JUL-07 17:05
Receive Date: 20-JUL-07
Collector: client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		2.70	0.066	0.200	mg/L	1	RXM1 07/24/07	2313	653703	1
Sulfate		2.65	0.100	0.400	mg/L	1				
Solids Analysis Federal										
EPA 160.1 Solids, Dissohed-F										
Total Dissolved Solids		47.0	2.38	10.0	mg/L		NXM 1 07/24/07	1241	653239	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	2.10	0.570	5.00	mg/L		NXM 1 07/25/07	1243	653246	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM2 07/24/07	1718	653459	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		5.03	0.725	1.00	mg/L		AXC2 07/31/07	1150	654861	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob, N.C. TO No. 4**

Report Date: August 9, 2007

Client Sample ID: OK016-SW-001
Sample ID: 189991016
Matrix: Surface Water
Collect Date: 18-JUL-07 15:30
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		2.51	0.066	0.200	mg/L	1	RXM107/24/07	2334	653703	1
Sulfate		100	0.500	2.00	mg/L	5	RXM107/26/07	0112	653703	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		106	2.38	10.0	mg/L	1	NXM 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		29.8	1.14	5.00	mg/L	1	NXM 07/24/07	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		43.0	0.500	10.0	mg/L		BXM207/26/07	1745	654341	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	**u**	0.00	0.725	1.00	mg/L		AXC2 07/31/07	1154	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Report Date: August 9, 2007
Contact: Chris Allen
Project: **Ore Knob, N.C. TO No. 4**

Client Sample ID: OK016-SW-002
Sample ID: 189991017
Matrix: Surface Water
Collect Date: \ 8-JUL-07 3 5:35
Receive Date: 20-JUL-07
Collector: client

Project: BLVE00807
Client **ID:** BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		2.65	0.066	0.200	mg/L	1	RXM107/24/07	2354	653703	1
Sulfate		47.1	0.200	0.800	mg/L	2	RXM107/26/07	0133	653703	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		82.0	2.38	10.0	mg/L		NXM 07/24/07 1	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		15.6	1.14	5.00	mg/L		NXM 07/24/07 1	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM207/26/07	1749	654341	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	**u**	0-00	0.725	LOO	mg/L		AXC2 07/31/07	1155	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Project: **Ore** Knob, N.C. TO No. 4

Report Date: August 9, 2007

Client Sample ID: OK016-SW-003
SamplelD: 189991018
Matrix: Surface Water
Collect Date: 18-JUL-07 15:40
Receive Date: 20-JUL-07
Collector: client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		2.62	0.066	0.200	mg/L	1	RXM107/25/07	0014	653703	1
Sulfate		12.6	0.100	0.400	mg/L	1				
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		48.0	2.38	10.0	mg/L		NXM I	07/24/07	1241	653239 2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	3.40	0.570	5.00	mg/L		NXM 1	07/24/07	1145	653247 3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM2	07/26/07	1753	654341 4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		1.01	0.725	1.00	mg/L		AXC2	07/31/07	1156	654861 5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Project: **Ore Knob, N.C. TO No. 4**

Report Date: August 9, 2007

Client Sample ID: OK017-SW-001
Sample ID: 189991019
Matrix: Surface Water
Collect Date: 18-JUL-07 13:50
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride		2.42	0.066	0.200	mg/L	1	RXM1	07/25/07	0035	653703	1
Sulfate		55.6	0.200	0.800	mg/L	2	RXM1	07/26/07	0153	653703	2
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids		87.0	2.38	10.0	mg/L		NXM 1	07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq											
Total Suspended Solids		8.50	0.570	5.00	mg/L		NXM 1	07/24/07	1145	653247	4
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		16.1	0.500	10.0	mg/L		BXM2	07/26/07	1808	654341	5
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03	**u**	0.00	0.725	1.00	mg/L		AXC2	07/31/07	1157	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Report Date: August 9, 2007

Client Sample ID: OK018-SW-001
Sample ID: 189991020
Matrix: Surface Water
Collect Date: 18-JUL-07 09:30
Receive Date: 20-JUL-07
Collector: Client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		2.52	0.066	0.200	mg/L	1	RXM107/25/07	0055	653703	1
Sulfate		52.0	0.200	0.800	mg/L	2	RXM107/26/07	0213	653703	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		82.0	2.38	10.0	mg/L		NXM 1 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	4.60	0.570	5.00	mg/L		NXM 1 07/24/07	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		16.1	0.500	10.0	mg/L		BXM207/26/07	1812	654341	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	**u**	0.00	0.725	1.00	mg/L		AXC2 07/31/07	1158	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Project: **Ore Knob, N.C. TO No. 4**

Report Date: August 9, 2007

Client Sample ID: OK018-SW-002
Sample ID: 389991021
Matrix: Surface Water
Collect Date: 18-JUL-07 09:35
Receive Date: 20-JUL-07
Collector: client

Project: BLVE00807
Client **ID:** BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		2.54	0.066	0.200	mg/L	1	RXM107/25/07	0237	653707	1
Sulfate		45.0	0.200	0.800	mg/L	2	RXM107/26/07	0558	653707	2
Solids Analysis Federal										
*EPA 160.1 Solids, Dissolved^*										
Total Dissolved Solids		84.0	2.38	10.0	mg/L		NXM 07/24/07 1	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		6.10	0.570	5.00	mg/L		NXM 07/24/07 1	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		18.8	0.500	10.0	mg/L		BXM2 07/26/07	1818	654341	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	**u**	0-00	0.725	1.00	mg/L		AXC207/31/07	1159	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Report Date: August 9, 2007

Contact: Chris Allen
Project: **Ore Knob, N.C TO** No. 41

Client Sample ID: OK018-SW-003
Sample ID: 189991022
Matrix: Surface Water
Collect Date: 18-JUL-07 09:40
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client **ID:** BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride		2.57	0.066	0.200	mg/L	1	RXM1	07/25/07	0338	653707	1
Sulfate		44.5	0.200	0.800	mg/L	2	RXM1	07/26/07	0659	653707	2
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids		70.0	2.38	10.0	mg/L		NXM 1	07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq											
Total Suspended Solids		9.10	0.570	5.00	mg/L		NXM 1	07/24/07	1145	653247	4
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		16.1	0.500	10.0	mg/L		BXM2	07/26/07	1821	654341	5
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03	TJ	0.00	0.725	1.00	mg/L		AXC2	07/31/07	1200	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Report Date: August 9, 2007
Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO No.** *41*

Client Sample ID: OK021-SW-001
Sample ID: 189991023
Matrix: Surface Water
Collect Date: 18-JUL-07 13:05
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		2.33	0.066	0.200	mg/L	1	RXM107/25/07	0359	653707	1
Sulfate		20.9	0.100	0.400	mg/L	1	RXM107/26/07	0800	653707	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		67.0	2.38	10.0	mg/L	1	NXM 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	2.90	0.570	5.00	mg/L	1	NXM 07/24/07	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM2 07/26/07	1826	654341	5
EPA310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		2.01	0.725	1.00	mg/L		AXC2 07/31/07	1201	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Project: Ore Knob, N.C. TO No. 4

Report Date: August 9, 2007

Client Sample ID: OK022-SW-001
Sample ID: 189991024
Matrix: Surface Water
Collect Date: 18-JUL-07 09:25
Receive Date: 20-JUL-07
Collector: Client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		2.11	0.066	0.200	mg/L	1	RXM107/25/07	0419	653707	1
Sulfate		1.39	0.100	0.400	mg/L	1	RXM107/26/07	0820	653707	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		37.0	2.38	10.0	mg/L	1	NXM 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		5.40	0.570	5.00	mg/L	1	NXM 07/24/07	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM207/26/07	1840	654341	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		9.05	0.725	1.00	mg/L		AXC2 07/31/07	1206	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Project: Ore Knob, N.C. TO No. 4

Report Date: August 9, 2007

Client Sample ID: OK023-SW-001
Sample ID: 189991025
Matrix: Surface Water
CollectDate: 18-JUL-0710:25
Receive Date: 20-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		2.65	0.066	0.200	mg/L	1	RXM107/25/07	0439	653707	1
Sulfate		89.5	0.500	2.00	rag/L	5	RXM 107/26/07	0841	653707	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		126	2.38	10.0	mg/L	1	NXM 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	U	0.200	0.570	5.00	mg/L	1	NXM 07/24/07	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		24.2	0.500	10.0	mg/L		BXM2 07/26/07	1851	654341	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	u	0.00	0.725	1.00	mg/L		AXC2 07/31/07	1216	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Project: **Ore Knob, N.C. TO No. 4**

Report Date: August 9, 2007

Client Sample ID: OK026-SW-001
Sample ID: 189991026
Matrix: Surface Water
Collect Date: 17-JUL-07 12:32
Receive Date: 20-JUL-07
Collector: client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		7.39	0.066	0.200	mg/L	1	RXM1 07/25/07	0500	653707	1
Sulfate		2.56	0.100	0.400	mg/L	1	RXM1 07/26/07	0901	653707	2
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		54.0	2.38	10.0	mg/L		NXM 1 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	1.10	0.570	5.00	mg/L		NXM 1 07/24/07	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM2 07/26/07	1158	654536	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		17.1	0.725	1.00	mg/L		AXC2 07/31/07	1220	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob, N.C. TO No. 4**

Report Date: August 9, 2007

Client Sample ID: OK026-SW-002
Sample ID: 189991027
Matrix: Surface Water
CollectDate: 17-JUL-07 13:10
Receive Date: 20-JUL-07
Collector: client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		7.03	0.066	0.200	mg/L	1	RXM107/25/07	0601	653707	1
Sulfate		3.83	0.100	0.400	mg/L	1	RXM107/26/07	0921	653707	2
Solids Analysis Federal										
EPA J60.1 Solids, Dissolved-F										
Total Dissolved Solids		65.0	2.38	10.0	mg/L	1	NXM 07/24/07	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	1.50	0.570	5.00	mg/L	1	NXM 07/24/07	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM207/26/07	1210	654536	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		17.1	0.725	1.00	mg/L		AXC2 07/31/07	1228	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Contact: Chris Allen
Project: Ore Knob, N.C. TO No. 4

Report Date: August 9, 2007

Client Sample ID: OK026-SW-003
Sample ID: 189991028
Matrix: Surface Water
Collect Date: 17-JUL-07 12:25
Receive Date: 20-JUL-07
Collector: client

Proiect: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		6.59	0.066	0.200	mg/L	1	RXM1 07/25/07	0621	653707	1
Sulfate		6.95	0.100	0.400	mg/L	1	RXMI07/26/07	0942	653707	2
Solids Analysis Federal										
EPA 160. J Solids, Dissolved-F										
Total Dissolved Solids		54.0	2.38	10.0	mg/L		NXM 07/24/07 1	1241	653239	3
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	1.70	0.570	5.00	mg/L		NXM 07/24/07 1	1145	653247	4
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM207/26/07	1216	654536	5
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		14.1	0.725	1.00	mg/L		AXC2 07/31/07	1234	654861	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Alpharctta. Georgia 30004
Report Date: August 13.2007
Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO** No. **4**

Client Sample'**ID:** OK00J-SW-001
Sample ID: 190082001
Matrix: Surface Water
Collect Date: 19-JUL-07 09:10
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client **ID:** BLVE00**1**

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride	(j	0.00	3.30	10.0	mg/L	50	**RXM**I	07/26/07	1556	654376	1
Sulfate		249	5.00	20.0	mg/L	50					
Solids Analysis Federal											
EPA J60. J Solids, Dissolved-F											
Total Dissolved Solids		344	2.38	10.0	mg/L		NXM J	07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	\j	0.100	0.570	5.00	mg/L		NXM \	07/25/07	1102	653872	3
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		43.0	0.500	10.0	mg/L		BXM2	07/26/07	1222	654536	4
EPA 310.1 Total Alkalinity Federal											
Alkalinity. Total as CaC03	U	0.00	0.725	1.00	mg/L		AXC2	08/02/07	1528	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob, N.C. TO** No. **4**

Client Sample ID: OK002-SW-001
Sample ID: 190082002
Matrix: Surface Water
Collect Date: I9-JUL-07 10:25
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride	TJ	0.00	3.30	10.0	mg/L	50	RXM107/26/07	1657	654376	1
Sulfate		117	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		192	2.38	10.0	mg/L		NXM I 07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		6.70	0.570	5.00	mg/L		NXM I 07/25/07	1102	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		43.0	0.500	10.0	mg/L		BXM207/26/07	1227	654536	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	\j	0.00	0.725	1.00	mg/L		AXC2 08/02/07	1529	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Con lac l: Chrís Allen
Project: **Ore Knob, N.C. TO** No. **4**

Report Date: August 13.200'

Client Sample ID: OK004-SW-001
Sample ID: 190082003
Matrix: Surface Water
Collect Date: 19-JUL-07 17:35
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client **ID:** BLVE00I

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride	U	0.00	3.30	10.0	mg/L	50	RXM107/26/07	1718	654376	I
Sulfate		550	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		623	2.38	10.0	mg/L		NXM 07/25/07 !	1501	653869	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	U	0.00	0.570	5.00	mg/L		NXM 07/25/07 I	1102	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		150	0.500	10.0	mg/L		BXM207/26/07	1233	654536	4
EPA 310.1 Total Alkalinity Federal										
Alkalínity, Total as CaC03	ij	0.00	0.725	1.00	mg/L		AXC2 08/02/07	1533	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
!	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Conl act: Chris Allen
Project: **Ore Knob,** N.C. **TO No. 4**

Report Date: August 13.2007

Client Sample ID: OK005-SW-00I
Sample ID: 190082004
Matrix: Surface Water
Collect Date: 19-JUL-07 11:20
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride	U	0.00	3.30	10.0	mg/L	50	RXM1	07/26/07	1738	654376	1
Sulfate		45.6	5.00	20.0	mg/L	50					
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids		40.0	2.38	10.0	mg/L		NXM 1	07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq											
Total Suspended Solids		12.4	2.53	li.i	mg/L		NXM I	07/25/07	1102	653872	3
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		13.4	0.500	10.0	mg/L		BXM2	07/26/07	1248	654536	4
EPA 310.1 Total Alkalinity Federal											
Alkalinity. Total as CaC03		3.02	0.725	i .00	mg/L		AXC2	08/02/07	1533	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Con tiicl: Chris Allen
Project: **Ore Knob, N.C**. TO No. 4

Client Sample ID: OK706-DW-00I
Sample ID: 190082005
Matrix: Drinking Water (Potable)
Collect Date: I9-JUL-07 17:45
Receive Date: 24-JUL-07
Collector: Client
Project: BLVE00807
Client **ID**: BLVE00J

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride	U	0.00	3.30	10.0	mg/L	50	RXM107/26/07	1758	654376	1
Sulfate		261	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		340	2.38	10.0	mg/L		NXM 07/25/07 1	1501	653869	2
EPA 160,2 Total Suspended Liq										
Total Suspended Solids	j	3.20	iD.570	5.00	mg/L		NXM 07/25/07 1	1102	653872	3
Titration Analysis Federal										
EPA 105.1 Acidity										
Acidity		69.9	0.500	10.0	mg/L		BXM207/26/07	1256	654536	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		1.01	0.725	1.00	mg/L		AXC2 08/02/07	1536	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob, N.C. TO No. A1**

Report Date: August 13. 2007

Client Sample **ID:** OK707-DW--001
Sample **ID:** 190082006
Matrix: **Drinking** Water (Potable)
Collect Date: 19-JUL-07 18:20
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client **ID**: BLVEOOi

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride	U	0.00	3.30	10.0	mg/L	50	RXM107/26/07	1819	654376	1
Sulfate		231	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		297	2.38	10.0	mg/L		NXM 07/25/07]	1501	653869	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	**J**	0.700	0.570	5.00	mg/L		NXM 07/25/07]	1102	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM207/26/07	1308	654536	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		4.02	0.725	1.00	mg/L		AXC2 08/02/07	1537	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Report Date: August 13.2007
Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO No. *4***

Client Sample **ID:** OK0I2-SW-001
Sample **ID:** 190082007
Matrix: Surface Water
Collect Date: 19-JUL-07 15:40
Receive Date: 24-JUL-07
Collector: Client
Project: BLVE00807
Client ID: BLVE00I

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	I\lei hod
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride	U	0.00	3.30	10.0	mg/L	50	RXM1	07/26/07	1920	654376	1
Sulfate		4120	50.0	200	mg/L	500	RXM I	08/01/07	0059	654376	2
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids		6790	2.38	10.0	mg/L		NXM I	07/25/07	1501	653869	3
EPA 160.2 Total Suspended Liq											
Total Suspended Solids		124	3.80	16.7	mg/L		NXM i	07/25/07	1102	653872	4
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		2580	0.500	10.0	mg/L		BXM2	O7/26/07	1316	654536	5
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03	\j	0.00	0.725	1.00	mg/L		AXC2	08/02/07	1540	656010	6

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 160.1	
4	EPA 160.2	
5	EPA 305.1	
6	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob. N.C. TO No. 4**

Report Dale: August 13. 200';

Client Sample ID: OK0I3-SW-00I
Sample ID: 190082008
Matrix: Surface Water
Collect Date: 19-JUL-07 13:05
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride	U	0.00	3.30	10.0	mg/L	50	RXM1	07/26/07	1940	654376	1
Sulfate		1550	5.00	20.0	mg/L	50					
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids		1760	2.38	10.0	mg/L		NXM 1	07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq											
Total Suspended Solids		83.0	1.14	5.00	mg/L		NXM 1	07/25/07	1102	653872	3
Titration Analysis Federal											
EPA 305.1 Acidiry											
Acidity		849	0.500	10.0	mg/L		BXM2	07/26/07	1329	654536	4
EPA 310.1 Total Alkalinity Federal											
Alkalinity. Total as CaC03	\j	0.00	0.725	1.00	mg/L		AXC2	08/02/07	1540	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Project: **Ore Knob,** N.C,**. TO No. *A***

Report Date: August 13. 2007

Client Sample **ID:** OK013-SW-001D
Sample **ID:** 190082009
Matrix: Surface Water
Collect Date: 19-JUL-07 13:05
Receive Date: 24-JUL-07
Collector: Client

Proiect: BLVE00807
Client ID: BLVEOOI

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride	\j	0.00	3.30	10.0	mg/L	50	RXMI07/26/07	2000	654376	1
Sulfate		1590	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		1750	2.38	10.0	mg/L		NXM 07/25/07 1	1501	653869	2
EPA 160.2 Tola! Suspended Liq										
Total Suspended Solids		88.6	1.14	5.00	mg/L		NXM 07/25/07 1	II02	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		849	0.500	10.0	mg/L		BXM207/26/07	1334	654536	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03	TJ	0.00	0.725	1.00	mg/L		AXC2 08/02/07	1541	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob. N.C. TO No. 4**

Client Sample ID: OK0I9-SW-001
Sample ID: 190082010
Matrix: Surface Water
Collect Date: 19-JUL-07 12:15
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE00!

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		17.1	3.30	10.0	mg/L	50	RXM1 07/26/07	2021	654376	1
Sulfate		57.3	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160. J Solids, Dissolved-F										
Total Dissolved Solids		56.0	2.38	10.0	mg/L		NXM I 07/25/07	1501	653869	2
EPA 160.2 Total Suspended Uq										
Total Suspended Solids	J	2.40	0.570	5.00	mg/L		NXM 1 07/25/07	1102	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM2 07/26/07	1341	654536	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		14.1	0.725	i .00	mg/L		AXC2 08/02/07	1542	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Report Date: August 13. 2007
Contact: Chris Allen
Project: **Ore Knob,** N.C.. **TO No.** 41

Client Sample **ID:** OK019-SW-002
Sample ID: 190082011
Matrix: Surface Water
Collect Date: I9-JUL-07 12:20
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE00I

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		16.6	3.30	10.0	mg/L	50	RXM107/26/07	2041	654376	1
Sulfate		32.3	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA J 60.1 Solids, Dissohed-F										
Total Dissolved Solids		87.0	2.38	10.0	mg/L		NXM I	07/25/07	1501	653869 2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	2.40	0.570	5.00	mg/L		NXM 1	07/25/07	1102	653872 3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13,4	0.500	10.0	mg/L		BXM2	07/26/07	1343	654536 4
EPA 310.1 Total Alkalinity Federal										
Alkalinity. Total as CaC03		J 7.6	0.725	1.00	mg/L		AXC2	08/02/07	1546	656010 5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Report Date: August 13.200")`
Contact: Chris Allen
Project: **Ore Knob. N.C. TO No.** 4

Client Sample ID: OK019-SW-003
Sample ID: 190082012
Matrix: Surface Water
Collect Date: 19-JUL-07 12:30
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		16.2	3.30	10.0	mg/L	50	RXM107/26/07	2101	654376	1
Sulfate		34.7	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160.1 Solids. Dissolved-F										
Total Dissolved Solids		52.0	2.38	10.0	mg/L		NXM 07/25/07 l	1501	653869	2
EPA 160-2 Total Suspended Liq										
Total Suspended Solids	j	2.80	0.570	5.00	mg/L		NXM 07/25/07 1	1102	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM207/26/07	1351	654536	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity. Total as CaC03		18.1	0.725	1.00	mg/L		AXC2 08/02/07	1553	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Alphareita. Georgia 30004
Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO** No. **4**

Report Date: August 13. 2007

Client Sample ID: OK019-SW-004
Sample ID: 190082013
Matrix: Surface Water
Collect Date: 19-JUL-07 I2:3f;
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client **ID**: BLVE00I

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Methwd
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride		16.3	3.30	10.0	mg/L	50	RXM1	07/26707	2122	654376	1
Sulfate		39.3	5.00	20.0	mg/L	50					
Solids Analysis Federal											
EPA 160.1 Solids, Dissohed-F											
Total Dissolved Solids		60.0	2.38	10.0	mg/L		NXM J	07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	J	3.10	I3.570	5.00	mg/L		NXM J	07/25/07	1102	653872	3
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		13.4	0.500	10.0	mg/L		BXM2	07/26/07	1357	654536	4
EPA 310.1 Total Alkalinity: Federal											
Alkalinity. Total as CaC03		15.1	0.725	1.00	mg/L		AXC2	08/02/07	1556	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Con l act: Chris Allen
Project: **Ore Knob, N.C. TO No. 4**

Report Date: August 13. 2007

Client Sample ID: OK019-SW-005
Sample ID: 190082014
Matrix: Surface Water
Collect Date: 19-JUL-07 12:40
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		**15.8**	3.30	10.0	mg/L	50	RXM1 07/26/07	2223	654376	1
Sulfate		27.3	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160.1 Solids, Dissolved-F										
Total Dissolved Solids		**49.0**	2.38	10.0	mg/L		NXM 1 07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	3.00	0.570	5.00	mg/L		NXM 1 07/25/07	1102	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM2 07/26/07	1403	654536	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		**14.6**	0.725	1.00	mg/L		AXC2 08/02/07	1558	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.!	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob.** N.C. **TO** No. **4**

Report Date: August 13. 200*7

Client Sample ID: OK019-SW-005D
Sample ID: 190082015
Matrix: Surface Water
Collect Date: I9-JUL-07 12:45
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride		15.0	3.30	10.0	mg/L	50	RXM1	08/01/07	0119	654376	1
Sulfate		22.3	5.00	20.0	mg/L	50					
Solids Analysis Federal											
EPA 160.1 Solids, Dissolved-F											
Total Dissolved Solids	J	5.00	2.38	10.0	mg/L		NXM 1	07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	j	3.20	0.570	5.00	mg/L		NXM 1	07/25/07	1102	653872	3
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		13.4	0.500	10.0	mg/L		BXM2	07/26/07	1408	654536	4
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03		13.6	0.725	1.00	mg/L		AXC2	08/02/07	1559	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO** No. **4**

Report Date: August 13. 2007

Client Sample ID: OK020-SW-00I
Sample ID: 190082016
Matrix: Surface Water
Collect Date: 19-JUL-07 09:30
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride		14.8	3.30	10.0	mg/L	50	RXM1	08/01/07	0139	654376	1
Sulfate	U	0.00	5.00	20.0	mg/L	50					
Solids Analysis Federal											
EPA 160. J Solids, Dissohed-F											
Total Dissolved Solids		56.0	2.38	10.0	mg/L		NXM 1	07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	j	3.70	0.570	5.00	mg/L		NXM 1	07/25/07	1102	653872	3
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		13.4	0.500	10.0	mg/L		BXM2	07/26/07	1413	654536	4
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03		18.1	0.725	1.00	mg/L		AXC2	08/02/07	1601	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Report Date: August 13. 2007
Contact: Chris Allen
Project: **Ore Knob,** N.C. **TO No. 4**

Client Sample **ID:** OK024-SW-001
Sample ID: 190082017
Matrix: Surface Water
Collect Date: 19-JUL-07 15:40
Receive Date: 24-JUL-07
Collector: Client
Project: BLVE00807
Client ID; BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		13.7	3.30	10.0	mg/L	50	RXM108/01/07	0200	654376	1
Sulfate		200	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160. J Solids, Dissolved-F										
Total Dissolved Solids		284	2.38	10.0	mg/L		NXM 1 07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	J	0.600	0.570	5.00	mg/L		NXM 1 07/25/07	1102	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		69,9	0.500	10.0	mg/L		BXM207/26/07	1419	654536	4
EPA 310.1 Total Alkalinity Federal										
Alkaİinity, Total as CaC03	u	0.00	0.725	1.00	mg/L		AXC2 08/02/07	1602	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: **Ore Knob.** N.C. **TO** No. 4

Report Date: August 13. 2007

Client Sample ID: OK025-SW-00I
Sample ID: 190082018
Matrix: Surface Water
Collect Date: I9-JUL-07 16:50
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		14.9	3.30	10.0	mg/L	50	RXM1 08/01/07	0220	654376	1
Sulfate		83.4	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160.1 Solids, Dissoived-F										
Total Dissolved Solids		157	2.38	10.0	mg/L		NXM 1 07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	j	3.40	0.570	5.00	mg/L		NXM 1 07/25/07	1102	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM2 07/26/07	1903	654341	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity, Total as CaC03		4.52	0.725	1.00	mg/L		AXC2 08/02/07	1603	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Project: **Ore Knob.** N.C. TO No. 4

Report Date: August 13. 2007

Client Sample ID: OK027-SW-001
Sample ID: 190082019
Matrix: Surface Water
Collect Date: 19-JUL-07 08:55
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography Federal										
EPA 300.0 Anions Liquid										
Chloride		15.6	3.30	10.0	mg/L	50	RXMI 08/01/07	0240	654376	1
Sulfate	U	0.00	5.00	20.0	mg/L	50				
Solids Analysis Federal										
EPA 160.1 Solids, Dissoived-F										
Total Dissolved Solids		64.0	2.38	10.0	mg/L		NXM I 07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		5.50	0L570	5.00	mg/L		NXM 1 07/25/07	1102	653872	3
Titration Analysis Federal										
EPA 305.1 Acidity										
Acidity		13.4	0.500	10.0	mg/L		BXM2 07/26/07	1912	654341	4
EPA 310.1 Total Alkalinity Federal										
Alkalinity. Total as CaC03		15.6	0.725	1.00	mg/L		AXC2 08/02/07	1604	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

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Contact: Chris Allen
Project: Ore Knob, N.C. TO No. 4

Report Date: August 13. 2007

Client Sample ID: OK007-SW-001
Sample ID: 190082020
Matrix: Surface Water
Collect Date: 18-JUL-07 17:40
Receive Date: 24-JUL-07
Collector: Client

Project: BLVE00807
Client ID: BLVE001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography Federal											
EPA 300.0 Anions Liquid											
Chloride	U	0.00	3.30	10.0	mg/L	50	RXMI	08/01/07	0301	654376	1
Sulfate		351	5.00	20.0	mg/L	50					
Solids Analysis Federal											
EPA 160.1 Solids, Dissohed-F											
Total Dissolved Solids		577	2.38	10.0	mg/L		NXM 1	07/25/07	1501	653869	2
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	J	4.20	0.570	5.00	mg/L		NXM I	07/25/07	i 102	653872	3
Titration Analysis Federal											
EPA 305.1 Acidity											
Acidity		32.2	0.500	10.0	mg/L		BXM2	07/26/07	1925	654341	4
EPA 310.1 Total Alkalinity Federal											
Alkalinity, Total as CaC03	H	1.51	0.725	1.00	mg/L		AXC2	08/02/07	1606	656010	5

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 160.1	
3	EPA 160.2	
4	EPA 305.1	
5	EPA 310.1	

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 1899% **METHOD TYPE:** SWS46

SAMPLE ID: 189996001 **CLIENT ID:** OK70I-DW-001

CONTRACT: BLVEOO807

MATRIX:W **DATE RECEIVED** 20-JUL-07 **LEVEL:** Lou **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	29.8	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	I	ICPMS3	070802-10
7440-39-3	Barium	6.3	ug/L			MS	0.5	I	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	I	ICPMS3	070802-10
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	11000	ug/L		E	MS	23	1	ICPMS3	070801-9
7440-47-3	Chromium	6.1	ug/L			MS	1	1	ICPMS3	070803-1!
7440-48-4	Cobalt	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	0.870	ug/L	B		MS	0.2	I	ICPMS3	070802-10
7439-89-6	Iron	417	ug/L			MS	10	I	ICPMS3	070802-10
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	]	ICPMS3	0708Q2-10
7439-95-4	Magnesium	1050	ug/L		E	MS	5	]	ICPMS3	070802-10
7439-96-5	Manganese	92.5	ug/L			MS	I	I	ICPMS3	070802-10
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	080207W1-1
7439-98-7	Molybdenum	0.310	ug/L	B		MS	0.1	I	ICPMS3	070802-10
7440-02-0	Nickel	0.50	ug/L	U		MS	0.5	I	ICPMS3	070802-10
7440-09-7	Potassium	1870	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	I	ICPMS3	070802-10
7440-23-5	Sodium	4050	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.410	ug/L	B		MS	0.3	1	1CPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	20.5	ug/L			MS	2	i	ICPMS3	070802-10

METALS

- 1 -

INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 189996 **METHOD TYPE:** SWS46

SAMPLE ID: 189996002 CLIENT ID: OK702-DW-0U|

CONTRACT: BLVE00807

MATRIX:W DATE RECEIVED 20-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Vnift	£	Qual	M	MDL	EE	Instrument ID	Analytical Run
7429-90-5	Aluminum	66. i	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	39.5	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.410	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	2.5	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	166000	ug/L		E	MS	1150	50	ICPMS3	070802-10
7440-47-3	Chromium	1	ug/L	U		MS	1	I	ICPMS3	070807-12
7440-48-4	Cobalt	136	ug/L			MS	0.1	1	ICPMS3	070801-9
7440-50-8	Copper	18.5	ug/L			MS	0.2	1	ICPMS3	070802-10
7439-89-6	Iron	5820	ug/L			MS	10	1	ICPMS3	070802-10
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	1CPMS3	070802-10
7439-95-4	Magnesium	12600	ug/L		E	MS	5	1	ICPMS3	070801-9
7439-96-5	Manganese	18200	ug/L			MS	50	50	ICPMS3	070801-9
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	114	ug/L			MS	0.5	1	ICPMS3	070801-9
7440-09-7	Potassium	5520	ug/L			MS	80	I	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	9470	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	I	ICPMS3	070802-10
^440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	848	ug/L			MS	i.	1	ICPMS3	0708D1-9

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 1 89996 **METHOD TYPE:** SWK46

SAMPLE ID: 189996003 CLIENT ID: OK702-DW--001D

CONTRACT: BLVEO0807

MATRIX:W DATE RECEIVED 20-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	£	Qual	M	MPL	W	Instrument IE	Analytical Run
7429-90-5	Aluminum	61.9	ug/L		*N	MS	5.6	1	ICPMS3	070801-9
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	40	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.430	ug/L	B		MS	0.1	1	ICPMS3	070801-9
7440-43-9	Cadmium	2.5	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	153000	ug/L		E	MS	1150	50	ICPMS3	070802-10
7440-47-3	Chromium	I	ug/L	U		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	136	ug/L			MS	0.1	1	ICPMS3	070801-9
7440-50-8	Copper	18.6	ug/L			MS	0.2	1	ICPMS3	070807-12
7439-89-6	Iron	5790	ug/L			MS	10	1	ICPMS3	070801-9
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7439-95-4	Magnesium	12700	ug/L		E	MS	5	1	ICPMS3	070801-9
7439-96-5	Manganese	17300	ug/L			MS	50	50	ICPMS3	070801-9
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	080207WI-I
7439-98-7	Molybdenum	0.10	ug/L	U		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	112	ug/L			MS	0.5	1	ICPMS3	070801-9
7440-09-7	Potassium	5800	ug/L			MS	80	1	ICPMS3	070801-9
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	9690	ug/L			MS	80	1	ICPMS3	070801-9
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070801-9
7440-66-6	Zinc	829	ug/L			MS	2	1	ICPMS3	070801-9

METALS
- 1 -
INORGANTCS ANALYSIS DATA PACKAGE

SDG No: 18999ft **METHOD TYPE:** SWH46

SAMPLE ID: 189996004 CLIENT ID: OK703-DW--001

CONTRACT: BLVE00807

MATRIX:W DATE RECEIVED 20-JUL-()7 LEVEL: Lou %SOLIDS:

CAS No	Analyte	Result	Units	C	Oual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	154	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	33.8	ug/L			MS	0.5	I	ICPMS3	070802-10
7440-41-7	Beryllium	0.540	ug/L			MS	0.1	1	1CPMS3	070802-10
7440-43-9	Cadmium	0.630	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	5080	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	1	ug/L	U		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	2.1	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	1.6	ug/L			MS	0.2	1	ICPMS3	070802-10
7439-89-6	Iron	35.1	ug/L			MS	10	1	ICPMS3	070802-10
7439-92-J	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7439-95-4	Magnesium	1710	ug/L		E	MS	5	1	ICPMS3	070802-10
7439-96-5	Manganese	117	ug/L			MS	1	1	ICPMS3	070801-9
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	1.2	ug/L	B		MS	0.5	1	ICPMS3	070802-10
7440-09-7	Potassium	1340	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	2450	ug/L			MS	80	I	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	156	ug/L			MS	20	If)	ICPMS3	070730-2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 1*9996 **METHOD TYPE:** SWK46

SAMPLE ID: 1X9996005 **CLIENT ID:** OK704-DW-001

CONTRACT: BLVEO08O7

MATRIX:W **DATE RECEIVED** 2U-JUL-07 **LEVEL:** Low **^SOLIDS:**

CAS No	Analyte	Result	Units	Q	Qual	M	MDL	DF	Instrument ^	Analytical Ryjl
7429-90-5	Aluminum	5.6	ug/L	U	*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	I	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	I	ICPMS3	070802-10
7440-39-3	Barium	15.1	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	9820	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	1	ug/L	B		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	0.180	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	16.7	ug/L			MS	0.2	l	ICPMS3	070802-10
7439-89-6	Iron	52	ug/L			MS	10	l	ICPMS3	070802-10
7439-92-1	Lead	0.550	ug/L	B		MS	0.5	!	ICPMS3	070802-10
7439-95-4	Magnesium	1560	ug/L		E	MS	5	!	ICPMS3	070802-10
7439-96-5	Manganese	2.1	ug/L	B		MS	1	l	ICPMS3	070802-10
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	080207W1-1
7439-98-7	Molybdenum	O.fO	ug/L	U		MS	0.1	!	ICPMS3	070802-10
7440-02-0	Nickel	0.840	ug/L	B		MS	0.5	I	ICPMS3	070802-10
7440-09-7	Potassium	1880	ug/L			MS	80	1	ICPMS3	070802-10
7^82-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	1CPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	2980	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	24.3	ugl-			MS	2	1	ICPMS3	070802-10

METALS
- I -
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 189996 **METHOD TYPE:** SWS46

SAMPLEID: 189996006 **CLIENT ID:** OK705-DW-001

CONTRACT: BLVE00807

MATRIX:W **DATE RECEIVED** 20-JUL-07 **LEVEL: Low** **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ^	Analytical g^
7429-90-5	Aluminum	11.6	ug/L	B	*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	11.3	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	9460	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	1.3	ug/L	B		MS	i	1	ICPMS3	070807-12
7440-48-4	Cobalt	0.10	ug/L	U		MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	22.4	ug/L			MS	0.2	1	1CPMS3	070802-10
7439-89-6	Iron	86.6	ug/L			MS	10	1	ICPMS3	070802-10
7439-92-1	Lead	0.790	ug/L	B		MS	0.5	1	ICPMS3	070802-10
7439-95-4	Magnesium	1270	ug/L		E	MS	5	1	ICPMS3	070802-10
7439-96-5	Manganese	7.1	ug/L			MS	I	1	ICPMS3	070802-10
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080207W1-I
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	0.830	ug/L	B		MS	0.5	1	ICPMS3	070802-10
7440-09-7	Potassium	1970	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	4330	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	14.6	ug/L			MS	2	1	1CPMS3	070802-10

METALS
- 1 -
INORGAMCS ANALYSIS DATA PACKAGE

SDG No: 1 89996 **METHOD TYPE:** SW846

SAMPLE ID: 189996007 CLIENT ID: OK006-SW-001

CONTRACT: BLVE00S07

MATRIX:SU DATE RECEIVED 20-JUL-07 LEVEL: Low %SOLIDS:

CAS No	AnalYte	Result	Units	£	Oual	M	MDL	OF	Instrument m	Analytical Run
7429-90-5	Aluminum	2580	ug/L		*N	MS	5.6	1	1CPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	30.8	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.710	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	1.8	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	46400	ug/L		E	MS	115	5	ICPMS3	070801-9
7440-47-3	Chromium	2.9	ug/L	B		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	50.9	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	432	ug/L			MS	2	10	1CPMS3	070730-2
7439-89-6	Iron	20000	ug/L			MS	50	5	ICPMS3	070801-9
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7439-95-4	Magnesium	6290	ug/L		E	MS	5	1	ICPMS3	070802-10
7439-96-5	Manganese	1170	ug/L			MS	5	5	ICPMS3	070801-9
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080207WI-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	I	1CPMS3	070802-10
7440-02-0	Nickel	11	ug/L			MS	0.5	I	1CPMS3	070802-10
7440-09-7	Potassium	12700	ug/L			MS	400	5	ICPMS3	070801-9
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	2750	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	I	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	597	ug/L			MS	20	10	ICPMS3	070730-2

METALS
-1-
INORGAMCS ANALYSIS DATA PACKAGE

SDGNo: 1^996 METHOD TYPE: SW846

SAMPLE ID: 189996008 CLIENT ID: OK007-SW-001

CONTRACT: BLVE00K07

MATRIX:SU DATE RECEIVED 2O-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	IMiS	£	QM.	M	\£DL	DF	Instrument m	Analytical R^
7429-90-5	Aluminum	206	ug/L		*N	MS	5.6	1	1CPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	37.4	ug/L			MS	0.5	I	ICPMS3	070802-10
7440-41-7	Beryllium	0.190	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.220	ug/L	B		MS	0.1	I	ICPMS3	070802-10
7440-70-2	Calcium	2930	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	1	ug/L	U		MS	1	I	ICPMS3	070807-12
7440-48-4	Cobalt	10.7	ug/L			MS	0.1	I	ICPMS3	070802-10
7440-50-8	Copper	3	ug/L			MS	0.2	I	ICPMS3	070802-10
7439-89-6	Iron	2570	ug/L			MS	10	I	ICPMS3	070802-10
7439-92-1	Lead	0.50	ug/L	**u**		MS	0.5	I	ICPMS3	070802-10
7439-95-4	Magnesium	917	ug/L		E	MS	5	I	ICPMS3	070802-10
7439-96-5	Manganese	172	ug/L			MS	5	5	ICPMS3	070801-9
7439-97-6	Mercury	0.030	ug/L	**u**		AV	0.03	I	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	**u**		MS	0.1	I	ICPMS3	070802-10
7440-02-0	Nickel	1.6	ug/L	B		MS	0.5	1	ICPMS3	070802-10
7440-09-7	Potassium	1990	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	1CPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	1	1CPMS3	070802-10
7440-23-5	Sodium	1190	ug/L			MS	80	I	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	**u**		MS	0.3	I	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	I	ICPMS3	070802-10
7440-66-6	Zinc	17.8	ug/L			MS	2	1	ICPMS3	070802-HI

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: IS99% **METHOD TYPE:** SW846

SAMPLE ID: 1S9996009 **CLIENT ID:** OK008-SW-001

CONTRACT: BLYE00S07

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Lou **%SOLIDS:**

CAS No	Analvte	Result	Ujùls	£	Ojiai	M	MDL	DE	Instrument JJJ	Analytical fiyji
7429-90-5	Aluminum	308	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimon>	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	88.8	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	5660	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	I	ug/L	u		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	9	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	26.2	ug/L			MS	0.2	l	1CPMS3	070802-10
7439-89-6	Iron	3110	ug/L			MS	10	l	ICPMS3	070802-10
7439-92-1	Lead	1.7	ug/L	B		MS	0.5	l	ICPMS3	070802-10
7439-95-4	Magnesium	739	ug/L		E	MS	5	l	ICPMS3	070802-10
7439-96-5	Manganese	152	ug/L			MS	5	ñ	ICPMS3	070801-9
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	l	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	U		MS	0.1	I	ICPMS3	070802-10
7440-02-0	Nickel	1.5	ug/L	B		MS	0.5	l	ICPMS3	070802-10
7440-09-7	Potassium	7100	ug/L			MS	80	l	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	I	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	1700	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	41.9	ug/L			MS	2	1	ICPMS3	070802-10

METALS
- 1 -
INORGANTCS ANALYSIS DATA PACKAGE

SDG No: IK9996 **METHOD TYPE: SW846**

SAMPLE ID: !S99960lu **CLIENT ID:** OK009-SW-00I

CONTRACT: BLVE0OSO7

MATRIXrSU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analvte	Result	Units	£	OjiaJ	M	MPL	DF	Instrument jg	Analytical g^j
7429-90-5	Aluminum	23700	ug/L		*N	MS	28	5	ICPMS3	070801-9
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	4.5	ug/L	B		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	12.5	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	2.3	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	7.8	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	463000	ug/L		E	MS	2300	100	ICPMS3	070802-10
7440-47-3	Chromium	62	ug/L			MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	743	ug/L			MS	10	100	ICPMS3	070802-10
7440-50-8	Copper	971	ug/L			MS	20	100	ICPMS3	070802-10
7439-89-6	Iron	4090000	ug/L			MS	10000	1000	ICPMS3	070807-12
7439-92-1	Lead	0.50	ug/L	U		MS	***0.5***	1	ICPMS3	070802-10
7439-95-4	Magnesium	130000	ug/L		E	MS	25	5	ICPMS3	070801-9
7439-96-5	Manganese	25900	ug/L			MS	100	100	ICPMS3	070801-9
7439-97-6	Mercury	0.130	ug/L	B		AV	0.03	1	MER536	080207WI-1
7439-98-7	Molybdenum	0.20	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	73.6	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-09-7	Potassium	46300	ug/L			MS	400	5	ICPMS3	070801-9
7782-49-2	Selenium	8.4	ug/L			MS	1.5	I	1CPMS3	070802-10
7440-22-4	Silver	4.9	ug/L			MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	8490	ug/L			MS	400	5	ICPMS3	070801-9
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	23.6	ug/L	B		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	4900	ug/L			MS	20	10	ICPMS3	070730-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDG No; 1S9996 **METHOD TYPE:** SWS46

SAMPLE ID: 1X9996011 **CLIENT ID:** OK0I0-SW--001

CONTRACT:: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	SE	Instrument 10	Analytical Run
7429-90-5	Aluminum	408	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.6	ug/L	B		MS	1.5	l	ICPMS3	070802-10
7440-39-3	Barium	35.9	ug/L			MS	0.5	I	ICPMS3	070802-10
7440-41-7	Beryllium	0.340	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.460	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	439000	ug/L		E	MS	2300	100	ICPMS3	070802-10
7440-47-3	Chromium	1.9	ug/L	B		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	200	ug/L			MS	0.5	5	ICPMS3	070802-10
7440-50-8	Copper	29.9	ug/L			MS	0.2	1	ICPMS3	070802-10
7439-89-6	Iron	2250000	ug/L			MS	10000	1000	ICPMS3	070807-12
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7439-95-4	Magnesium	101000	ug/L		E	MS	500	100	ICPMS3	070802-10
7439-96-5	Manganese	15700	ug/L			MS	100	100	ICPMS3	070801-9
7439-97-6	Mercury	0.120	ug/L	B		AV	0.03	1	MER536	080207W1-1
7439-98-7	Molybdenum	0.520	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	23.3	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-09-7	Potassium	44000	ug/L			MS	400	5	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	2.2	ug/L			MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	5440	ug/L			MS	400	5	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	870	ug/L			MS	20	10	ICPMS3	070730-2

METALS

- 1 -

INORGANICS ANALYSIS DATA PACKAGE

SDG No: I S9996 **METHOD TYPE:** SW846

SAMPLE ID: 189996012 CLIENT ID: OKon-sw-001

CONTRACT: BLVE008(i7

MATRIX:SU DATE RECEIVED 20-JUL-07 LEVEL: Lo** %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL-	fi£	Instrument IT2	Analytical Run
7429-90-5	Aluminum	2040	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	1CPMS3	070802-10
7440-39-3	Barium	33	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.610	ug/L			MS	0.1	1	1CPMS3	070802-10
7440-43-9	Cadmium	1.5	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	104000	ug/L		E	MS	230	10	ICPMS3	070730-2
7440-47-3	Chromium	2.7	ug/L	B		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	68.1	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	283	ug/L			MS	2	10	ICPMS3	070730-2
7439-89-6	Iron	319000	ug/L			MS	100	10	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7439-95-4	Magnesium	20600	ug/L		E	MS	50	10	ICPMS3	070730-2
7439-96-5	Manganese	3510	ug/L			MS	10	10	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	12.6	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-09-7	Potassium	18800	ug/L			MS	800	10	ICPMS3	070730-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.260	ug/L	B		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	3220	ug/L			MS	80	1	1CPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	607	ug/L			MS	20	10	ICPMS3	070730-2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: IK9996 METHOD TYPE: SWS46

SAMPLE ID: 189996013 CLIENT ID: OKUI4-SW-001

CONTRACT: BLVE00807

MATRIX:SU DATE RECEIVED 20-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Lm'Js	£	Qua]	M	jVIDL	P_E	Instrument m	Analytical g^
7429-90-5	Aluminum	4660	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	15.9	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.670	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	1.5	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	79400	ug/L		E	MS	230	10	ICPMS3	070730-2
7440-47-3	Chromium	4.9	ug/L			MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	89.5	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	236	ug/L			MS	2	10	ICPMS3	070730-2
7439-89-6	Iron	147000	ug/L			MS	100	10	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7439-95-4	Magnesium	14800	ug/L		E	MS	50	10	ICPMS3	070730-2
7439-96-5	Manganese	2570	ug/L			MS	10	10	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	14	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-09-7	Potassium	8950	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	1CPMS3	070802-10
7440-23-5	Sodium	2520	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	1CPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	629	uiz/L			MS	20	10	ICPMS3	070730-2

METALS

- 1 -

INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 1X9996 **METHOD TYPE:** SW846

SAMPLE ID: 189996014 **CLIENT ID:** OK0I4-SW-001D

CONTRACT: BLVE00X07

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MPL	PJF	Instrument ID	Analytical Run
7429-90-5	Aluminum	4740	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	15.5	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.720	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	1.5	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	81000	ug/L		E	MS	230	10	ICPMS3	070730-2
7440-47-3	Chromium	5.5	ug/L			MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	87.9	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	241	ug/L			MS	2	10	ICPMS3	070730-2
7439-89-6	Iron	149000	ug/L			MS	100	10	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	]	ICPMS3	070802-10
7439-95-4	Magnesium	15900	ug/L		E	MS	50	10	ICPMS3	070730-2
7439-96-5	Manganese	2610	ug/L			MS	10	10	ICPMS3	070730-2
7439-97-6	Mercury-	0.030	ug/L	u		AV	0.03	l	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	13.8	ug/L			MS	0.5	!	ICPMS3	070802-10
7440-09-7	Potassium	8520	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	I	ICPMS3	070802-10
7440-23-5	Sodium	2510	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	648	ug/L			MS	20	1()	ICPMS3	070730-2

METALS

- 1 -

LNORGANICS ANALYSIS DATA PACKAGE

SDG No: I K99% METHOD TYPE: SWS46

SAMPLE ID: 1899^6015 CLIENT ID: OKOI5-SW-1)01

CONTRACT: BLVE00807

MATRIX: SU DATE RECEIVED 20-JUL-07 LEVEL: Lou %SOLIDS:

CAS No	Analyte	Result	L'nits	£	Qual	M	MDL	S£	Instrument ID	Analytical Run
7429-90-5	Aluminum	33.4	ug/L		*N	MS	5.6	1	1CPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	11.7	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	2480	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	1.1	ug/L	B		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	2.9	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	1.3	ug/L			MS	0.2	1	ICPMS3	070802-10
7439-89-6	Iron	103	ug/L			MS	10	I	ICPMS3	070802-10
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	I	ICPMS3	070802-10
7439-95-4	Magnesium	909	ug/L		E	MS	5	I	ICPMS3	070802-10
7439-96-5	Manganese	9.6	ug/L			MS	1	I	ICPMS3	070802-10
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	I	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	I	ICPMS3	070802-10
7440-02-0	Nickel	4.4	ug/L			MS	0.5	I	ICPMS3	070802-10
7440-09-7	Potassium	1030	ug/L			MS	80	I	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	2280	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	I	ICPMS3	070802-10
7440-66-6	Zinc	2.1	ug/L	B		MS	2	1	ICPMS3	070802-10

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 189996 **METHOD TYPE:** SWX46

SAMPLE ID: 1899961! 16 **CLIENT ID:** OKUI6-SW-001

CONTRACT: BLVE00X07

MATRJX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Lou **% SOLIDS:**

CAS No	Analyte	Result	Vn't§	£	Qual	M	MDL	p E	Instrument m	Analytical Run
7429-90-5	Aluminum	504	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	12.2	ug/L			MS	0.5	I	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.150	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	8750	ug/L		E	MS	230	10	ICPMS3	070730-2
7440-47-3	Chromium	1.4	ug/L	B		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	10.8	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	24.9	ug/L			MS	0.2	I	ICPMS3	070802-10
7439-89-6	Iron	8270	ug/L			MS	10	I	ICPMS3	070802-10
7439-92-I	Lead	0.50	ug/L	U		MS	0.5	I	ICPMS3	070802-10
7439-95-4	Magnesium	2400	ug/L		E	MS	5	I	ICPMS3	070802-10
7439-96-5	Manganese	233	ug/L			MS	10	10	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	080207WI-1
7439-98-7	Molybdenum	0.10	ug/L	U		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	1.8	ug/L	B		MS	0.5	I	ICPMS3	070802-10
7440-09-7	Potassium	1810	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	2560	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	64.7	ug/L			MS	2	1	ICPMS3	070802-10

METALS

- 1 -

INORGANTCS ANALYSIS DATA PACKAGE

SDGNo: 1SW96 **METHOD TYPE:** SWX46

SAMPLE ID: 189996017 CLIENT ID; OK0I6-SW--002

CONTRACT: BLVE00807

MATRIX;SU **DATE RECEIVED** 20-JUL-07 LEVEL: Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	QF	Instrument m	AnalyticaJ Run
7429-90-5	Aluminum	439	ug/L		*N	MS	5.6	I	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	13.1	ug/L			MS	0.5	I	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	5850	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	1.4	ug/L	B		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	4.6	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	12.3	ug/L			MS	0.2	I	ICPMS3	070802-10
7439-89-6	Iron	7070	ug/L			MS	10	I	ICPMS3	070802-10
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7439-95-4	Magnesium	1680	ug/L		E	MS	5	I	ICPMS3	070802-10
7439-96-5	Manganese	129	ug/L			MS	10	10	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	0802O7W1-I
7439-98-7	Molybdenum	0.10	ug/L	U		MS	0.1	I	ICPMS3	070802-10
7440-02-0	Nickel	1	ug/L	B		MS	0.5	1	ICPMS3	070802-10
7440-09-7	Potassium	1390	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	I	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	2560	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	30.9	ug/L			MS	2	1	ICPMS3	070802-10

METALS
-1-
INORGANTCS ANALYSIS DATA PACKAGE

SDGNo: 1899% METHOD TYPE: SWS46

SAMPLE ID: 189996018 **CLIENT ID:** OK016-SW-003

CONTRACT: BLVE00807

MATRIX:SU DATE RECEIVED 20-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Rewlt	Vpits	£	Oual	M	MDL	DF	Instrument j D	Analytical Run
7429-90-5	Aluminum	21	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	11.9	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	I	ICPMS3	070802-10
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	3770	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	I	ug/L	B		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	3.4	ug/L			MS	0.1	I	ICPMS3	070802-10
7440-50-8	Copper	2.8	ug/L			MS	0.2	I	ICPMS3	070802-10
7439-89-6	Iron	1110	ug/L			MS	10	I	ICPMS3	070802-10
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	I	ICPMS3	070802-10
7439-95-4	Magnesium	1220	ug/L		E	MS	5	I	ICPMS3	070802-10
7439-96-5	Manganese	53.2	ug/L			MS	1	I	ICPMS3	070802-10
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	I	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	0.620	ug/L	B		MS	0.5	I	ICPMS3	070802-10
7440-09-7	Potassium	1180	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	1CPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	2350	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	1CPMS3	070802-10
7440-66-6	Zinc	11.5	ug/L			MS	2	1	ICPMS3	070802-10

METALS

- 1 -

INORGANICS ANALYSIS DATA PACKAGE

SDG No: 189996 METHOD TYPE; 5WX46

SAMPLE ID: 1X9996019 CLIENT ID: OK0I7-SW-O0I

CONTRACT: BLVE00807

MATRIX:SU DATE RECEIVED 20-JUL-07 LEVEL: Low ^SOLIDS:

CAS No	Analvte	Result	Units	£	QM	M	MDL	DF.	Instrument j£	Analytical Rjjn
7429-90-5	Aluminum	545	ug/L		*N	MS	5.6	1	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	17.7	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	**u**		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.110	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	7600	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	3.8	ug/L			MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	7.2	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	21.6	ug/L			MS	0.2	1	ICPMS3	070802-10
7439-89-6	Iron	4440	ug/L			MS	10	1	ICPMS3	070802-10
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS3	070802-10
7439-95-4	Magnesium	2060	ug/L		E	MS	5	1	ICPMS3	070802-10
7439-96-5	Manganese	162	ug/L			MS	10	10	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	**u**		AV	0.03	1	MER536	O80207WI-1
7439-98-7	Molybdenum	0.10	ug/L	***V***		MS	0.1	1	ICPMS3	070802-10
7440-02-0	Nickel	2.3	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-09-7	Potassium	1660	ug/L			MS	80	1	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	2690	ug/L			MS	80	1	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	**u**		MS	0.3	1	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	182	ug/L			MS	20	10	ICPMS3	070730-2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 189996 **METHOD TYPE:** SWK46

SAMPLE ID: 189996020 CLIENT ID: OK01K-SW-001

CONTRACT: BLVE0O8O7

MATRIX:SU DATE RECEIVED 20-**JUL**-07 LEVEL: Lou %SOLIDS:

CAS No	Analyte	Result	Units	£	Qual	M	MPL	DF	Instrument m	Analytical Run
7429-90-5	Aluminum	533	ug/L		*N	MS	5.6	i	ICPMS3	070802-10
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070802-10
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070802-10
7440-39-3	Barium	19.8	ug/L			MS	0.5	1	ICPMS3	070802-10
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070802-10
7440-43-9	Cadmium	0.130	ug/L	B		MS	0.1	1	ICPMS3	070802-10
7440-70-2	Calcium	6560	ug/L		E	MS	23	1	ICPMS3	070802-10
7440-47-3	Chromium	2.9	ug/L	B		MS	1	1	ICPMS3	070807-12
7440-48-4	Cobalt	7.4	ug/L			MS	0.1	1	ICPMS3	070802-10
7440-50-8	Copper	22.7	ug/L			MS	0.2	I	ICPMS3	070802-10
7439-89-6	Iron	3070	ug/L			MS	10	1	ICPMS3	070802-10
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	I	ICPMS3	070802-10
7439-95-4	Magnesium	1830	ug/L		E	MS	5	I	ICPMS3	070802-10
7439-96-5	Manganese	211	ug/L			MS	10	10	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	080207W1-I
7439-98-7	Molybdenum	0.10	**ug/L**	U		MS	0.1	I	ICPMS3	070802-10
7440-02-0	Nickel	2.3	ug/L			MS	0.5	I	ICPMS3	070802-10
7440-09-7	Potassium	1440	ug/L			MS	80	I	ICPMS3	070802-10
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070802-10
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS3	070802-10
7440-23-5	Sodium	2360	ug/L			MS	80	]	ICPMS3	070802-10
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	]	ICPMS3	070802-10
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070802-10
7440-66-6	Zinc	74.2	ug/L			MS	2	1	ICPMS3	070802-10

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 189996 METHOD TYPE: SWS46

SAMPLE ID: 18999602! CLIENT ID: OKOI8-SW-002

CONTRACT: BLVE00S07

MATRIX:SL' DATE RECEIVED 2O-JUL-07 LEVEL: Lou' %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument jg	Analytical Rjm
7429-90-5	Aluminum	404	ug/L		*N	MS	5.6	1	ICPMS3	070730-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	1CPMS3	070730-2
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070730-2
7440-39-3	Barium	19.7	ug/L			MS	0.5	1	ICPMS3	070730-2
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	1CPMS3	070730-2
7440-43-9	Cadmium	0.120	ug/L	B		MS	0.1	1	ICPMS3	070730-2
7440-70-2	Calcium	6650	ug/L		E	MS	23	1	ICPMS3	070730-2
7440-47-3	Chromium	2.7	ug/L	B		MS	I	1	ICPMS3	070730-2
7440-48-4	Cobalt	7.4	ug/L			MS	0.1	1	ICPMS3	070730-2
7440-50-8	Copper	22.1	ug/L			MS	0.2	1	ICPMS3	070730-2
7439-89-6	Iron	2310	ug/L			MS	10	]	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	]	ICPMS3	070730-2
7439-95-4	Magnesium	1940	ug/L		E	MS	5	I	ICPMS3	070730-2
7439-96-5	Manganese	192	ug/L			MS	1	]	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	080207W1-I
7439-98-7	Molybdenum	0.10	ug/L	U		MS	0.1	I	ICPMS3	070730-2
7440-02-0	Nickel	1.5	ug/L	B		MS	0.5	i	ICPMS3	070730-2
7440-09-7	Potassium	1670	ug/L			MS	80	I	ICPMS3	070730-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	I	ICPMS3	070730-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS3	070730-2
7440-23-5	Sodium	2370	ug/L			MS	80	1	ICPMS3	070731-7
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS3	070730-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	I	ICPMS3	070730-2
7440-66-6	Zinc	444	ug/L			MS	2	1	ICPMS3	070730-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 189996 **METHOD TYPE:** SW846

SAMPLE ID: 189996022 **CLIENT ID:** OK018-SW-OU3

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M.	MDL	EI	Instrument jg	Analytical j * ^
7429-90-5	Aluminum	575	ug/L		*N	MS	5.6	1	ICPMS3	070730-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	I	ICPMS3	070731-3
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070730-2
7440-39-3	Barium	21.6	ug/L			MS	0.5	I	ICPMS3	070730-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	I	ICPMS3	070730-2
7440-43-9	Cadmium	0.150	ug/L	B		MS	0.1	1	ICPMS3	070731-3
7440-70-2	Calcium	6870	ug/L		E	MS	23	1	ICPMS3	070730-2
7440-47-3	Chromium	3.9	ug/L			MS	1	1	ICPMS3	070730-2
7440-48-4	Cobalt	7.6	ug/L			MS	0.1	1	ICPMS3	070730-2
7440-50-8	Copper	23.4	ug/L			MS	0.2	1	1CPMS3	070730-2
7439-89-6	Iron	3370	ug/L			MS	10	1	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS3	070730-2
7439-95-4	Magnesium	1980	ug/L		E	MS	5	1	ICPMS3	070730-2
7439-96-5	Manganese	187	ug/L			MS	1	1	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	080207W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS3	070731-8
7440-02-0	Nickel	1.9	ug/L	B		MS	0.5	I	ICPMS3	070730-2
7440-09-7	Potassium	1670	ug/L			MS	80	1	ICPMS3	070730-2
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS3	070730-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS3	070731-3
7440-23-5	Sodium	2190	ug/L			MS	80	1	ICPMS3	070731-7
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	I	ICPMS3	070730-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	I	ICPMS3	070730-2
7440-66-6	Zinc	46.6	ug/L			MS	1	1	ICPMS3	070730-2

METALS
- 1 -
1NORGANICS ANALYSIS DATA PACKAGE

SDGNo: isyy% **METHOD TYPE:** SWS46

SAMPLE ID: 189996023 **CLIENT ID:** OK02I-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Lou **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MPi	DE	Instrument m	Analytical Run
7429-90-5	Aluminum	284	Llg/L		*N	MS	5.6	1	ICPMS3	070730-2
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070731-3
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS3	070730-2
7440-39-3	Barium	22.8	ug/L			MS	0.5	1	ICPMS3	070730-2
7440-41-7	Beryllium	0.10	ug/L	B		MS	0.1	1	ICPMS3	070730-2
7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	ICPMS3	070731-3
7440-70-2	Calcium	6000	ug/L		E	MS	23	1	ICPMS3	070730-2
7440-47-3	Chromium	3	ug/L			MS	1	1	ICPMS3	070730-2
7440-48-4	Cobalt	5.3	ug/L			MS	0.1	1	ICPMS3	070730-2
7440-50-8	Copper	7.8	ug/L			MS	0.2	1	ICPMS3	070730-2
7439-89-6	Iron	345	ug/L			MS	10	1	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS3	070730-2
7439-95-4	Magnesium	1640	ug/L		E	MS	5	1	1CPMS3	070730-2
7439-96-5	Manganese	338	ug/L			MS	I	1	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080207WI-1
7439-98-7	Molybdenum	0.240	ug/L	B		MS	0.1	1	ICPMS3	070731-3
7440-02-0	Nickel	2.2	ug/L			MS	0.5	1	ICPMS3	070730-2
7440-09-7	Potassium	1490	ug/L			MS	80	1	ICPMS3	070730-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070730-2
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS3	070731-3
7440-23-5	Sodium	2010	ug/L			MS	80	1	ICPMS3	070731-7
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070730-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070730-2
7440-66-6	Zinc	48.3	Llg/L			MS	2	I	ICPMS3	070730-2

METALS

-1-

INORGANTCS ANALYSIS DATA PACKAGE

SDGNo: IN9996 METHOD TYPE: SW 846

SAMPLE ID: 189996024 CLIENT ID: OK022-SW-00I

CONTRACT: BLVE00807

MATRIX:SL DATE RECEIVED 20-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C_	_Ojial	M	*MDL*	£E	Instrument m	Analytical Ruji
7429-90-5	Aluminum	32.4	ug/L		*N	MS	5.6	1	ICPMS3	070730-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	I	ICPMS3	070731-3
7440-38-2	Arsenic	1.5	ug/L	**u**		MS	1.5	1	ICPMS3	070730-2
7440-39-3	Barium	15	ug/L			MS	0.5	1	ICPMS3	070730-2
7440-41-7	Beryllium	0.10	ug/L	**u**		MS	0.1	1	ICPMS3	070730-2
7440-43-9	Cadmium	0.10	ug/L	**u**		MS	0.1	1	ICPMS3	070731-3
7440-70-2	Calcium	2070	ug/L		E	MS	23	1	ICPMS3	070730-2
7440-47-3	Chromium	2.9	ug/L	B		MS	1	I	1CPMS3	070730-2
7440-48-4	Cobalt	2.9	ug/L			MS	0.1	1	ICPMS3	070730-2
7440-50-8	Copper	0.780	ug/L	B		MS	0.2	1	ICPMS3	070730-2
7439-89-6	Iron	93.4	ug/L			MS	10	I	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	I	ICPMS3	070730-2
7439-95-4	Magnesium	818	ug/L		E	MS	5	I	ICPMS3	070730-2
7439-96-5	Manganese	I6.I	ug/L			MS	1	I	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	080207W1-1
7439-98-7	Molybdenum	0.160	ug/L	B		MS	0.1	I	ICPMS3	070731-3
7440-02-0	Nickel	0.50	ug/L	U		MS	0.5	1	ICPMS3	070730-2
7440-09-7	Potassium	1250	ug/L			MS	80	I	1CPMS3	070730-2
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	ICPMS3	070730-2
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	1	ICPMS3	070731-3
7440-23-5	Sodium	1910	ug/L			MS	80	1	ICPMS3	070731-7
7440-28-0	Thallium	0.30	ug/L	**u**		MS	0.3	1	ICPMS3	070730-2
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS3	070730-2
7440-66-6	Zinc	2.9	ug/L	B		MS	2	1	ICPMS3	070730-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 18^996 METHOD TYPE: SW846

SAMPLE ID: IS9996025 CLIENT ID: OK023-SW-001

CONTRACT: BLVEl 10807

MATRIX:SU DATE RECEIVED 2(1-JUL-(17 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	1480	ug/L		*N	MS	5.6	1	ICPMS3	070730-2
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS3	070731-3
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	I	ICPMS3	070730-2
7440-39-3	Barium	26.8	ug/L			MS	0.5	1	ICPMS3	070730-2
7440-41-7	Beryllium	0.370	ug/L	B		MS	0.1	1	ICPMS3	070730-2
7440-43-9	Cadmium	0.30	ug/L	B		MS	0.1	1	ICPMS3	070731-3
7440-70-2	Calcium	12600	ug/L		E	MS	23	I	ICPMS3	070730-2
7440-47-3	Chromium	3.3	ug/L			MS	1	1	ICPMS3	070730-2
7440-48-4	Cobalt	21.9	ug/L			MS	0.1	I	ICPMS3	070730-2
7440-50-8	Copper	33.4	ug/L			MS	0.2	I	ICPMS3	070730-2
7439-89-6	Iron	948	ug/L			MS	10	I	ICPMS3	070730-2
7439-92-i	Lead	0.60	ug/L	B		MS	0.5	I	ICPMS3	070730-2
7439-95-4	Magnesium	2750	ug/L		E	MS	5	I	ICPMS3	070730-2
7439-96-5	Manganese	1320	ug/L			MS	10	10	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	080207W1-I
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	I	ICPMS3	070731-3
7440-02-0	Nickel	4.7	ug/L			MS	0.5	I	ICPMS3	070730-2
7440-09-7	Potassium	2020	ug/L			MS	80	1	ICPMS3	070730-2
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS3	070730-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS3	070731-3
7440-23-5	Sodium	2500	ug/L			MS	80	1	ICPMS3	070731-7
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS3	070730-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS3	070730-2
7440-66-6	Zinc	70.3	ug/L			MS	2	1	ICPMS3	070730-2

METALS
- 1 -
INORGAMCS ANALYSIS DATA PACKAGE

SDGNo: IK9996 **METHOD TYPE: SW** 846

SAMPLE ID: 189996026 **CLIENT ID:** OK026-SW-00I

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C_	Qual	M	MDL	D£	Instrument |£	Analytical j^
7429-90-5	Aluminum	52.3	ug/L		*N	MS	5.6	1	ICPMS3	070730-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070731-3
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070730-2
7440-39-3	Barium	10.8	ug/L			MS	0.5	1	ICPMS3	070730-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070730-2
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070731-3
7440-70-2	Calcium	4450	ug/L		E	MS	23	1	ICPMS3	070730-2
7440-47-3	Chromium	3	ug/L	B		MS	1	I	ICPMS3	070730-2
7440-48-4	Cobalt	2.8	ug/L			MS	0.1	1	ICPMS3	070730-2
7440-50-8	Copper	1.1	ug/L			MS	0.2	1	ICPMS3	070730-2
7439-89-6	Iron	202	ug/L			MS	10	l	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	l	ICPMS3	070730-2
7439-95-4	Magnesium	1840	ug/L		E	MS	5	]	ICPMS3	070730-2
7439-96-5	Manganese	17.8	ug/L			MS	I	]	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	]	MER536	080207W1-1
7439-98-7	Molybdenum	0.240	ug/L	B		MS	0.1	[	ICPMS3	070731-3
7440-02-0	Nickel	0.620	ug/L	B		MS	0.5	]	ICPMS3	070730-2
7440-09-7	Potassium	1230	ug/L			MS	80	1	ICPMS3	070730-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070730-2
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS3	070731-3
7440-23-5	Sodium	5430	ug/L			MS	80	1	ICPMS3	070731-7
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	I	ICPMS3	070730-2
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS3	070730-2
7440-66-6	Zinc	2.5	ug/L	B		MS	2	1	ICPMS3	070730-2

METALS
- I -
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 1X9946 **METHOD TYPE:** SWS46

SAMPLE ID: IS9996U27 **CLIENT ID:** OK026-SW-002

CONTRACT: BLVE0OS0?

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	DF	Instrument j^	Analytical Ryjj
7429-90-5	Aluminum	1 13	ug/L		*N	MS	5.6	1	ICPMS3	070730-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070731-3
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070730-2
7440-39-3	Barium	11.5	ug/L			MS	0.5	I	1CPMS3	070730-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070730-2
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070731-3
7440-70-2	Calcium	4530	ug/L		E	MS	23	1	ICPMS3	070730-2
7440-47-3	Chromium	3	ug/L			MS	1	1	ICPMS3	070730-2
7440-48-4	Cobalt	0.390	ug/L	B		MS	0.1	1	ICPMS3	070730-2
7440-50-8	Copper	1.8	ug/L			MS	0.2	l	ICPMS3	070730-2
7439-89-6	Iron	408	ug/L			MS	10	l	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	l	ICPMS3	070730-2
7439-95-4	Magnesium	1820	ug/L		E	MS	5	l	ICPMS3	070730-2
7439-96-5	Manganese	25.5	ug/L			MS	I	l	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	l	MER536	080207WI-1
7439-98-7	Molybdenum	0.170	ug/L	B		MS	0.1	l	ICPMS3	070731-3
7440-02-0	Nickel	0.50	ug/L	U		MS	0.5	1	ICPMS3	070730-2
7440-09-7	Potassium	1350	ug/L			MS	80	1	ICPMS3	070730-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070730-2
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS3	070731-3
7440-23-5	Sodium	5080	ug/L			MS	80	1	ICPMS3	070731-7
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	1CPMS3	070730-2
7440-62-2	Vanadium	3	ug/L	B		MS	3	I	ICPMS3	070730-2
7440-66-6	Zinc	5.6	ug/L	B		MS	2	I	ICPMS3	070730-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 189996 **METHOD TYPE:** SWS46

SAMPLE ID: 1X9M9602X **CLIENT ID:** OK')26-SW-(K)3

CONTRACT: BLVE00X07

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Efisuil	Lnjls	C	Ciual	M	MSL	CE	Instrument jg	Analytical Sm
7429-90-5	Aluminum	134	ug/L		*N	MS	5.6	1	ICPMS3	070730-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS3	070731-3
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070730-2
7440-39-3	Barium	12.6	ug/L			MS	0.5	1	ICPMS3	070730-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070730-2
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS3	070731-3
7440-70-2	Calcium	4760	ug/L		E	MS	23	1	ICPMS3	070730-2
7440-47-3	Chromium	3.2	ug/L			MS	1	1	ICPMS3	070730-2
7440-48-4	Cobalt	0.710	ug/L	B		MS	0.1	1	ICPMS3	070730-2
7440-50-8	Copper	2.3	ug/L			MS	0.2	1	ICPMS3	070730-2
7439-89-6	Iron	539	ug/L			MS	10	I	ICPMS3	070730-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	j	ICPMS3	070730-2
7439-95-4	Magnesium	2080	ug/L		E	MS	5	i	ICPMS3	070730-2
7439-96-5	Manganese	40.8	ug/L			MS	1	j	ICPMS3	070730-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	j	MER536	080207WI-1
7439-98-7	Molybdenum	0.190	ug/L	B		MS	0.1	i	ICPMS3	070731-3
7440-02-0	Nickel	0.540	ug/L	B		MS	0.5	j	ICPMS3	070730-2
7440-09-7	Potassium	1350	ug/L			MS	80	j	ICPMS3	070730-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS3	070730-2
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	I	ICPMS3	070731-3
7440-23-5	Sodium	4680	ug/L			MS	80	I	ICPMS3	070731-7
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS3	070730-2
7440-62-2	Vanadium	3.3	ug/L	B		MS	3	1	ICPMS3	070730-2
7440-66-6	Zinc	6.2	ug/L	B		MS	2	1	ICPMS3	070730-2

METALS
- 1 -
INORGANICS ANALVSIS DATA PACKAGE

SDGNo: 190128 **METHOD TYPE:** SWS46

SAMPLE ID: 190128001 **CLIENT ID:** OKOOl-SW-00!

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JLL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analvte	Result	Units	£	Qual	M	MDL	Q£	Instrument jg	Analytical £un
7429-90-5	Aluminum	2590	ug/L			MS	5.6	I	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-9
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	24.4	ug/L			MS	0.5	1	ICPMS5	070801-6
7440-41-7	Beryllium	6.9	ug/L			MS	0.1	1	ICPMS5	070801-9
7440-43-9	Cadmium	9.9	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	59200	ug/L			MS	115	.5	ICPMS5	070731-5
7440-47-3	Chromium	I	ug/L	U		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	102	ug/L			MS	0.1	i	ICPMS5	070731-2
7440-50-8	Copper	3840	ug/L			MS	1	.5	ICPMS5	070801-6
7439-89-6	Iron	629	ug/L			MS	10	]	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	**u**		MS	0.5	!	ICPMS5	070801-6
7439-95-4	Magnesium	5630	ug/L			MS	5	!	ICPMS5	070731-2
7439-96-5	Manganese	2570	ug/L			MS	5	6	ICPMS5	070731-5
7439-97-6	Mercury	0.030	ug/L	*V*		AV	0.03	!	MER536	080707W1-1
7439-98-7	Molybdenum	0.110	ug/L	B		MS	0.1	!	1CPMS5	070731-2
7440-02-0	Nickel	44.6	ug/L			MS	0.5	i	ICPMS5	070731-2
7440-09-7	Potassium	5000	ug/L			MS	80	I	ICPMS5	070731-2
7782-49-2	Selenium	2.4	ug/L	B		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	3680	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070801-6
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	1650	ug/L		E	MS	2	I	1CPMS5	070731-2

METALS
- 1 -
INORGANTCS ANALYSIS DATA PACKAGE

SDGNo: 190128 **METHOD TYPE:** SWX46

SAMPLE ID: 190128002 **CLIENT ID:** OK002-SW-00I

CONTRACT: BLVE00807

MATRIX:SL' **DATE RECEIVED** 24-JUL-07 **LEVEL:** Lou **% SOLIDS:**

CAS No	Analyte	Result	Uniii	£	Qual	M	MDL	DE	Instrument m	Analytical ^
7429-90-5	Aluminum	302	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	I	ICPMS5	070801-9
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	28.5	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	1	ug/L			MS	0.1	1	ICPMS5	070801-9
7440-43-9	Cadmium	1.5	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	22500	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	I	ug/L	u		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	35.2	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	577	ug/L			MS	2	i.0	1CPMS5	070801-6
7439-89-6	Iron	13500	ug/L			MS	10	l	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	!	ICPMS5	070731-2
7439-95-4	Magnesium	3140	ug/L			MS	5	l	ICPMS5	070731-2
7439-96-5	Manganese	727	ug/L			MS	I	l	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	l	MER536	080707W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	\	ICPMS5	070731-2
7440-02-0	Nickel	9.7	ug/L			MS	0.5	!	1CPMS5	070731-2
7440-09-7	Potassium	2280	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	I	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	V		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	2100	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	V		MS	0.3	I	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	375	ug/L		E	MS	2	I	ICPMS5	070731-2

METALS
- 1 -
INORGAMCS ANALYSIS DATA PACKAGE

SDGNo: 190128 METHOD TYPE: SW846

SAMPLE ID: 190128003 **CLIENT ID:** OK004-SW-001

CONTRACT; BLVE0O8O7

MATRIXrSL **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CA$ Nfl	Analyte	Result	Units	£	Qual	M	MDL	m	Instmment ID	Analytical Run
7429-90-5	Aluminum	16500	ug/L			MS	5.6	l	1CPMS5	070731-2
7440-36-0	Antimony	0.870	ug/L	B		MS	0.5	)	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	!	ICPMS5	070731-2
7440-39-3	Barium	18.7	ug/L			MS	2.5	5	ICPMS5	070801-6
7440-41-7	Beryllium	25.2	ug/L			MS	0.1	!	ICPMS5	070801-12
7440-43-9	Cadmium	23.5	ug/L			MS	0.1	!	ICPMS5	070731-2
7440-70-2	Calcium	85500	ug/L			MS	115	5	ICPMS5	070731-5
7440-47-3	Chromium	1	ug/L	U		MS	1	)	ICPMS5	070731-2
7440-48-4	Cobalt	244	ug/L			MS	0.1	!	ICPMS5	070731-2
7440-50-8	Copper	15900	ug/L			MS	40	200	ICPMS5	070801-6
7439-89-6	Iron	899	ug/L			MS	10	l	1CPMS5	070731-2
7439-92-1	Lead	2.5	ug/L	U		MS	2.5	5	ICPMS5	070801-11
7439-95-4	Magnesium	6170	ug/L			MS	5	)	ICPMS5	070731-2
7439-96-5	Manganese	6180	ug/L			MS	200	200	ICPMS5	070731-5
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	!	MER536	080707W1-1
7439-98-7	Molybdenum	0.30	ug/L	B		MS	0.1	!	ICPMS5	070731-2
7440-02-0	Nickel	67.3	ug/L			MS	0.5	!	ICPMS5	070731-2
7440-09-7	Potassium	9270	ug/L			MS	80	!	ICPMS5	070731-2
7782-49-2	Selenium	6.1	ug/L			MS	1.5	)	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	!	ICPMS5	070731-2
7440-23-5	Sodium	3280	ug/L			MS	80	)	ICPMS5	070731-2
7440-28-0	Thallium	1.5	ug/L	u		MS	1.5	5	ICPMS5	070801-6
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	4700	ug/L		E	MS	10	5	ICPMS5	070731-5

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDG.No: 190128 **METHOD TYPE:** SWH46

SAMPLE ID: 190128004 **CLIENT ID:** OK005-SW-001

CONTRACT: BLVE00807

MATRIXrSU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Ojjal	M.	MDL	DF.	Instrument m	Analytical Ry^
7429-90-5	Aluminum	142	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	29.2	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070801-12
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	3200	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	1	ug/L	u		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	1.3	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	12.5	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	5360	ug/L			MS	10	1	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	481	ug/L			MS	5	1	ICPMS5	070731-2
7439-96-5	Manganese	37.3	ug/L			MS	1	1	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080707W1-I
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	0.530	ug/L	B		MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	1430	ug/L			MS	80	1	1CPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	1120	ug/L			MS	80	I	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	6.9	ug/L	B	E	MS	2	1	ICPMS5	070731-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDG No: N0I2S **METHOD TYPE:** SW846

SAMPLE ID: 190128005 **CLIENT ID:** OK706-DW-001

CONTRACT: BLVE00807

MATRIX:W **DATE RECEIVED** 24-JUL-07 **LEVEL: Lou** **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qjjal	M	MDL	DF	Instrument jg	Analytical g^,
7429-90-5	Aluminum	179	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	13.1	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.260	ug/L	B		MS	0.1	1	ICPMS5	070801-12
7440-43-9	Cadmium	0.680	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	58700	ug/L			MS	230	10	ICPMS5	070731-5
7440-47-3	Chromium	1	ug/L	U		MS	1	I	ICPMS5	070731-2
7440-48-4	Cobalt	67.7	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	26.9	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	14800	ug/L			MS	10	I	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	4190	ug/L			MS	5	I	ICPMS5	070731-2
7439-96-5	Manganese	6370	ug/L			MS	10	10	ICPMS5	070731-5
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080707W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	I	ICPMS5	070731-2
7440-02-0	Nickel	10.2	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	5480	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	I	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	3640	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	470	ug/L		E	MS	2	1	ICPMS5	070731-2

METALS
- I -
INORGAMCS ANALYSIS DATA PACKAGE

SDGNo: I90I2S **METHOD TYPE:** SW846

SAMPLEID: I90I2K006 **CLIENT ID:** OK707-DW-00]

CONTRACT: BLVE0O807

MATRIX:W **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **^SOLIDS:**

CAS No	Analite	Result	Ljiuis	£	Qual	M	MDL	m	Instrument jp_	Analytical Rjm
7429-90-5	Aluminum	27.9	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	I	ICPMS5	070731-2
7440-39-3	Barium	11.6	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.260	ug/L	B		MS	0.1	1	1CPMS5	070801-12
7440-43-9	Cadmium	0.890	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	49600	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	1.5	ug/L	B		MS	1	I	ICPMS5	070731-2
7440-48-4	Cobalt	42.4	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	41.8	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	225	ug/L			MS	10	I	ICPMS5	070731-2
7439-92-1	Lead	9.9	ug/L			MS	0.5	!	ICPMS5	070731-2
7439-95-4	Magnesium	11400	ug/L			MS	5	I	ICPMS5	070731-2
7439-96-5	Manganese	1900	ug/L			MS	10	I 0	ICPMS5	070731-3
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	080707W1-I
7439-98-7	Molybdenum	0.10	ug/L	U		MS	0.1	I	ICPMS5	070731-2
7440-02-0	Nickel	10.9	ug/L			MS	0.5	I	ICPMS5	070731-2
7440-09-7	Potassium	4000	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	I	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	4930	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	I	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	323	ug/L		E	MS	2	1	1CPMS5	070731-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDG.No: I90I2S METHOD TYPE: SW846

SAMPLE ID: I90I28OO7 **CLIENT ID:** OK012-SW-001

CONTRACT: BLVE0O807

MATRIXrSU **DATE RECEIVED** 24~JUL-07 **LEVEL**: Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	3840	ug/L			MS	5.6		ICPMS5	070731-3
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5		ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5		ICPMS5	070731-3
7440-39-3	Barium	16.5	ug/L			MS	0.5		ICPMS5	070731-3
7440-41-7	Beryllium	0.390	ug/L	B		MS	0.1		ICPMS5	070801-12
7440-43-9	Cadmium	0.550	ug/L	B		MS	0.1		ICPMS5	070731-3
7440-70-2	Calcium	329000	ug/L			MS	2300	100	ICPMS5	070731-3
7440-47-3	Chromium	13.9	ug/L			MS	1		ICPMS5	070731-3
7440-48-4	Cobalt	524	ug/L			MS	0.1		ICPMS5	070731-3
7440-50-8	Copper	88.4	ug/L			MS	0.2		ICPMS5	070731-3
7439-89-6	Iron	1740000	ug/L			MS	1000	100	ICPMS5	070731-3
7439-92-1	Lead	0.50	ug/L	U		MS	0.5		ICPMS5	070731-3
7439-95-4	Magnesium	68100	ug/L			MS	500	100	ICPMS5	070731-3
7439-96-5	Manganese	12900	ug/L			MS	100	100	ICPMS5	070731-3
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03		MER536	080707WI-1
7439-98-7	Molybdenum	0.290	ug/L	B		MS	0.1		ICPMS5	070731-3
7440-02-0	Nickel	77.3	ug/L			MS	0.5		ICPMS5	070731-3
7440-09-7	Potassium	29900	ug/L			MS	80		ICPMS5	070731-3
7782-49-2	Selenium	2.8	ug/L	B		MS	1.5		1CPMS5	070731-3
7440-22-4	Silver	2.4	ug/L			MS	0.2		ICPMS5	070731-3
7440-23-5	Sodium	2850	ug/L			MS	80		ICPMS5	070731-3
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3		1CPMS5	070731-3
7440-62-2	Vanadium	8	ug/L	B		MS	3		ICPMS5	070731-3
7440-66-6	Zinc	1430	ug/L		E	MS	2		ICPMS5	070731-3

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: IW128 **METHOD TYPE:** SW846

SAMPLE ID: 190128008 **CLIENT ID:** OK013-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **% SOLIDS:**

CAS No	Analyte	Result	Units	Q	Qual	M	MDL	DF	Instrument	Analytical Run
7429-90-5	Aluminum	3960	ug/L			MS	5.6	1	ICPMS5	070731-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	1CPMS5	070731-3
7440-39-3	Barium	25.1	ug/L			MS	0.5	1	ICPMS5	070731-3
7440-41-7	Beryllium	0.810	ug/L			MS	0.1	1	ICPMS5	070801-12
7440-43-9	Cadmium	14	ug/L			MS	0.1	1	ICPMS5	070731-3
7440-70-2	Calcium	130000	ug/L			MS	230	10	ICPMS5	070731-3
7440-47-3	Chromium	5.7	ug/L			MS	1	1	ICPMS5	070731-3
7440-48-4	Cobalt	125	ug/L			MS	0.1	1	ICPMS5	070731-3
7440-50-8	Copper	291	ug/L			MS	2	10	ICPMS5	070731-3
7439-89-6	Iron	376000	ug/L			MS	100	10	ICPMS5	070731-3
7439-92-1	Lead	0.540	ug/L	B		MS	0.5	1	ICPMS5	070731-3
7439-95-4	Magnesium	18800	ug/L			MS	5	1	ICPMS5	070731-3
7439-96-5	Manganese	3960	ug/L			MS	10	10	ICPMS5	070731-3
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	080707W1-1
7439-98-7	Molybdenum	0.170	ug/L	B		MS	0.1	1	ICPMS5	070731-3
7440-02-0	Nickel	20.1	ug/L			MS	0.5	1	ICPMS5	070731-3
7440-09-7	Potassium	17100	ug/L			MS	80	1	1CPMS5	070731-3
7782-49-2	Selenium	2.4	ug/L	B		MS	1.5	1	ICPMS5	070731-3
7440-22-4	Silver	0.430	ug/L	B		MS	0.2	1	ICPMS5	070731-3
7440-23-5	Sodium	3040	ug/L			MS	80	1	ICPMS5	070731-3
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070731-3
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS5	070731-3
7440-66-6	Zinc	517	ug/L		E	MS	2	1	ICPMS5	070731-3

METALS
- 1 -
INORGAMCS ANALYSIS DATA PACKAGE

SDG No: 190128 **METHOD TYPE:** SW846

SAMPLE ID: 190128009 **CLIENT ID:** OK013-SW-00ID

CONTRACT: BLVE0O807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL: Lou** **%SOLIDS:**

CAS No	Analvte	Result	Units	£	Ojiaj	M	MDL	p F	Instrument jr,	Analytical g^
7429-90-5	Aluminum	3990	ug/L			MS	5.6	1	1CPMS5	070731-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	*V*		MS	1.5	1	ICPMS5	070731-3
7440-39-3	Barium	25.2	ug/L			MS	0.5	1	ICPMS5	070731-3
7440-41-7	Beryllium	0.810	ug/L			MS	0.1	1	ICPMS5	070801-12
7440-43-9	Cadmium	1.4	ug/L			MS	0.1	1	ICPMS5	070731-3
7440-70-2	Calcium	126000	ug/L			MS	230	10	ICPMS5	070731-3
7440-47-3	Chromium	5.7	ug/L			MS	1	1	ICPMS5	070731-3
7440-48-4	Cobalt	123	ug/L			MS	0.1	1	ICPMS5	070731-3
7440-50-8	Copper	282	ug/L			MS	2	10	ICPMS5	070731-3
7439-89-6	Iron	364000	ug/L			MS	100	10	ICPMS5	070731-3
7439-92-1	Lead	0.510	ug/L	B		MS	0.5	1	ICPMS5	070731-3
7439-95-4	Magnesium	18900	ug/L			MS	5	1	ICPMS5	070731-3
7439-96-5	Manganese	3850	ug/L			MS	10	10	ICPMS5	070731-3
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	080707W1-1
7439-98-7	Molybdenum	0.160	ug/L	B		MS	0.1	1	ICPMS5	070731-3
7440-02-0	Nickel	19.7	ug/L			MS	0.5	1	ICPMS5	070731-3
7440-09-7	Potassium	17400	ug/L			MS	80	1	ICPMS5	070731-3
7782-49-2	Selenium	2.2	ug/L	B		MS	1.5	1	1CPMS5	070731-3
7440-22-4	Silver	0.410	ug/L	B		MS	0.2	1	ICPMS5	070731-3
7440-23-5	Sodium	3110	ug/L			MS	80	1	ICPMS5	070731-3
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	I	ICPMS5	070731-3
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS5	070731-3
7440-66-6	Zinc	516	ug/L		E	MS	2	1	ICPMS5	070731-3

METALS
- 1 -
INORGANTCS ANALYSIS DATA PACKAGE

SDGNo: 190128 **METHOD TYPE:** SWS46

SAMPLE ID: 190128010 **CLIENT ID:** OK019-SW-O0I

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	Q	Qual	M	MDL	DF	Instrument	Analytical Batch
7429-90-5	Aluminum	41.1	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	10.2	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070801-12
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	4740	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	1	ug/L	u		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	1.6	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	1.3	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	176	ug/L			MS	10	1	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	2090	ug/L			MS	5	1	ICPMS5	070731-2
7439-96-5	Manganese	14.3	ug/L			MS	1	1	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080707WI-1
7439-98-7	Molybdenum	0.160	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	0.630	ug/L	B		MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	1310	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	1CPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	5570	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	I	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	2	ug/L	U	E	MS	2	1	ICPMS5	070731-2

METALS
- I -
INORGANICS ANALYSIS DATA PACKAGE

SOGN'o: 190128 **METHOD TYPE:** SW846

SAMPLEID: 1901280]] **CLIENT ID:** OK019-SW-002

CONTRACT: BLVE0O807

MATRIXrSU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	DE	Instrument jg	Analytical g^
7429-90-5	Aluminum	57.1	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	10.6	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	]	ICPMS5	070801-12
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	I	ICPMS5	070731-2
7440-70-2	Calcium	4730	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	1	ug/L	u		MS	I	1	ICPMS5	070731-2
7440-48-4	Cobalt	3.6	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	1.2	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	199	ug/L			MS	10	1	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	2070	ug/L			MS	5	1	ICPMS5	070731-2
7439-96-5	Manganese	16	ug/L			MS	I	1	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080707W1-]
7439-98-7	Molybdenum	0.160	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	0.870	ug/L	B		MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	1380	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	I	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	5370	ug/L			MS	80	I	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	≥	ug'L	U	E	MS	2	1	ICPMS5	070731-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 190128 **METHOD TYPE:** SW846

SAMPLE ID: 190128012 **CLIENT ID:** OK019-SW-003

CONTRACT: BLVE00S07

MATRIX:SU **DATE RECEIVED** 24-JLL-07 **LEVEL:** Low. **^SOLIDS:**

CAS No	Analyte	Result	limls	£	Qual	M	MTJL	DF	Instrument m	Analytical _R^
7429-90-5	Aluminum	46.8	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	10.5	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	**ug/L**	**u**		MS	0.1	1	ICPMS5	070801-12
7440-43-9	Cadmium	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	4980	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	I	ug/L	**u**		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	3.1	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	14	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	204	ug/L			MS	10	1	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	**u**		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	2100	ug/L			MS	5	1	ICPMS5	070731-2
7439-96-5	Manganese	17.4	ug/L			MS	1	1	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	**u**		AV	0.03	1	MER536	080707W1-1
7439-98-7	Molybdenum	0.170	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	0.80	ug/L	B		MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	1350	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	5740	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	**u**		MS	0.3	I	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	1CPMS5	070731-2
7440-66-6	Zinc	2	ug/L	U	E	MS	2	1	ICPMS5	070731-2

METALS
- I -
INORGANICS ANALVSIS DATA PACKAGE

SDG No: I9012S **METHOD TYPE:** SWH46

SAMPLE ID: 19012X013 **CLIENT ID:** OK019-SW-004

CONTRACT: BLVE00807

MATRIX: SL **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **% SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	U	MDL	DF.	Instrument m	Analytical Run
7429-90-5	Aluminum	175	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS5	070801-12
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	12.1	ug/L			MS	0.5	1	1CPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070801-12
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	5080	ug/L			MS	23	1	1CPMS5	070731-2
7440-47-3	Chromium	1	ug/L	u		MS	I	1	ICPMS5	070731-2
7440-48-4	Cobalt	0.610	ug/L	B		MS	0.1	l	ICPMS5	070731-2
7440-50-8	Copper	2.3	ug/L			MS	0.2	l	ICPMS5	070731-2
7439-89-6	Iron	492	ug/L			MS	10	!	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	]	ICPMS5	070731-2
7439-95-4	Magnesium	2120	ug/L			MS	5	l	ICPMS5	070731-2
7439-96-5	Manganese	32.5	ug/L			MS	1	]	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	i	MER536	080707W1-!
7439-98-7	Molybdenum	0,150	ug/L	B		MS	0.1	!	ICPMS5	070731-2
7440-02-0	Nickel	0.780	ug/L	B		MS	0.5	l	ICPMS5	070731-2
7440-09-7	Potassium	1390	ug/L			MS	80	I	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	I	ICPMS5	070731-2
7440-23-5	Sodium	5150	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	I	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	3.1	ug/L	B	E	MS	2	1	ICPMS5	070731-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 190128 **METHOD TYPE:** SW846

SAMPLE ID: 190128014 **CLIENT ID:** OKOI9-SW-005

CONTRACT: BLVE0080?

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	H	MDL	DF	Instrument jp	Analytical j^
7429-90-5	Aluminum	240	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.740	ug/L	B		MS	0.5	1	ICPMS5	070801-13
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	13	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070801-13
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	5540	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	I	ug/L	u		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	1.3	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	3.8	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	734	ug/L			MS	10	1	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	2200	ug/L			MS	5	1	1CPMS5	070731-2
7439-96-5	Manganese	54.8	ug/L			MS	1	1	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080707W1-1
7439-98-7	Molybdenum	0.140	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	0.930	ug/L	B		MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	1500	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	I	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	5360	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	i	ICPMS5	070731-2
7440-66-6	Zinc	6.5	ug/L	B	E	MS	2	1	1CPMS5	070731-2

METALS
- 1 -
1NORGANTCS ANALYSIS DATA PACKAGE

SDGNo: 190128 **METHOD TYPE:** SW846

SAMPLE ID: 190128015 **CLIENT ID:** OKOI9-SW-005D

CONTRACT: BLVE00K07

MATRIXrSU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	UjuiS	£	Guaj	M	*MQL*	fif	Instrument ID.	Analytical Rjni
7429-90-5	Aluminum	77.4	ug/L			MS	5.6	I	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-13
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	11.6	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070801-13
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	5400	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	1	ug/L	u		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	2.5	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	3.1	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	241	ug/L			MS	10	I	ICPMS5	070731-2
7439-92-i	Lead	0.50	ug/L	u		MS	0.5	I	ICPMS5	070731-2
7439-95-4	Magnesium	2090	ug/L			MS	5	I	ICPMS5	070731-2
7439-96-5	Manganese	49.5	ug/L			MS	1	I	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080707WI-1
7439-98-7	Molybdenum	0.140	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	0.850	ug/L	B		MS	0.5	I	ICPMS5	070731-2
7440-09-7	Potassium	1320	ug/L			MS	80	I	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	5120	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	I	ICPMS5	070731-2
7440-66-6	Zinc	7.3	ug/L	B	E	MS	2	1	ICPMS5	070731-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 190128 **METHOD TYPE:** SWWA

SAMPLE ID: 190128016 **CLIENT ID:** OK020-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Lou **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Oual	M.	MDL	DF,	Instrument m	Analytical Rim
7429-90-5	Aluminum	315	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS5	070801-13
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	15.5	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070801-13
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	1CPMS5	070731-2
7440-70-2	Calcium	5060	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	1	ug/L	u		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	0.350	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	1.7	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	553	ug/L			MS	10	1	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	2230	ug/L			MS	5	1	ICPMS5	070731-2
7439-96-5	Manganese	29.3	ug/L			MS	1	1	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	080707W1-1
7439-98-7	Molybdenum	0.150	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	0.830	ug/L	B		MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	1400	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	5780	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3.8	ug/L	B		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	9.2	ug/L	B	E	MS	2	1	ICPMS5	070731-2

METALS
- I -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: I9DI2S **METHOD TYPE:** SW846

SAMPLE ID: 19012X017 **CLIENT ID:** OK024-SW-001

CONTRACT: BLVE0OK07

MATRIX :SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	Qual	M	MDL	UE	Instrument	Analytical Run
7429-90-5	Aluminum	3590	ug/L		MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.720	ug/L	B	MS	0.5	1	ICPMS5	070801-13
7440-38-2	Arsenic	1.5	ug/L	U	MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	34	ug/L		MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	1.2	ug/L		MS	0.1	1	ICPMS5	070801-13
7440-43-9	Cadmium	0.910	ug/L	B	MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	33700	ug/L		MS	23	I	ICPMS5	070731-2
7440-47-3	Chromium	1	ug/L	U	MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	77.5	ug/L		MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	81.3	ug/L		MS	0.2	I	ICPMS5	070731-2
7439-89-6	Iron	4890	ug/L		MS	10	I	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	U	MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	7560	ug/L		MS	5	I	ICPMS5	070731-2
7439-96-5	Manganese	3570	ug/L		MS	10	I 0	ICPMS5	070731-3
7439-97-6	Mercury	0.030	ug/L	U	AV	0.03	I	MER536	080707W1-I
7439-98-7	Molybdenum	0.10	ug/L	U	MS	0.1	I	ICPMS5	070731-2
7440-02-0	Nickel	14	ug/L		MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	3910	ug/L		MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	u	MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u	MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	4570	ug/L		MS	80	I	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u	MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u	MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	139	ug/L	E	MS	2	1	ICPMS5	070731-2

METALS
-1-
INORGAMCS ANALVSIS DATA PACKAGE

SDGNo: 1^)128 **METHOD TYPE:** SW846

SAMPLEID: I9D1280I8 **CLIENT ID:** OK025-SW-001

CONTRACT: BLVEO08O7

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Aiia!iiC	Result	·\jm	L	Oual	M	MfiL	DE	Instrument m	AnalvticaJ Emi
7429-90-5	Aluminum	25.3	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-13
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	36.8	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070801-13
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	22500	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	1	ug/L	u		MS	I	1	ICPMS5	070731-2
7440-48-4	Cobalt	10.3	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	1.7	ug/L			MS	0.2	1	1CPMS5	070731-2
7439-89-6	Iron	2660	ug/L			MS	10	1	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	5450	ug/L			MS	5	1	ICPMS5	070731-2
7439-96-5	Manganese	463	ug/L			MS	1	1	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	0807O7WI-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	4.2	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	3150	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	5090	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	28.9	ug/L		E	MS	2	1	ICPMS5	070731-2

METALS
- 1 -
INORGANTCS ANALYSIS DATA PACKAGE

SDGNo: 190128 METHOD TYPE: SW846

SAMPLE ID: 190)28019 CLIENT ID: OK027-SW-00I

CONTRACT: BLVE00S07

MATRIX:SU DATE RECEIVED 24-JUL-07 LEVEL: Low %SOLIDS:

CASNg	Analvje	Result	Ujiils	£	Quai	M	MDL	BE	Instrument]D	Analytical Rjm
7429-90-5	Aluminum	322	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-13
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	15.8	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	U		MS	***0.1***	1	ICPMS5	070801-13
7440-43-9	Cadmium	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	5270	ug/L			MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	1	ug/L	**u**		MS	1	I	ICPMS5	070731-2
7440-48-4	Cobalt	0.770	ug/L	B		MS	0.1	I	ICPMS5	070731-2
7440-50-8	Copper	2.6	ug/L			MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	690	ug/L			MS	10	I	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	I	ICPMS5	070731-2
7439-95-4	Magnesium	2170	ug/L			MS	5	I	ICPMS5	070731-2
7439-96-5	Manganese	46.9	ug/L			MS	I	I	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	080707W1-1
7439-98-7	Molybdenum	0.140	ug/L	B		MS	0.1	I	ICPMS5	070731-2
7440-02-0	Nickel	0.980	ug/L	B		MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	1450	ug/L			MS	80	I	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	I	ICPMS5	070731-2
7440-23-5	Sodium	5190	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	3.9	ug/L	B	E	MS	2	1	ICPMS5	070731-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNu: 190128 METHOD TYPE: SWH46

SAMPLE ID: 190128020 CLIENT ID: OK-QC-BF-01

CONTRACT: BLVE008D7

MATRIX:W DATE RECEIVED 24-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Anahte	Result	Units	£	Qual	M	MDL	p_F	Instrument ig	Analytical j^
7429-90-5	Aluminum	14.7	ug/L	B		MS	5.6	1	ICPMS5	070731-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-13
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-3
7440-39-3	Barium	0.50	ug/L	**u**		MS	0.5	1	ICPMS5	070731-3
7440-41-7	Beryllium	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	070801-13
7440-43-9	Cadmium	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	070731-3
7440-70-2	Calcium	35,4	ug/L	B		MS	23	1	ICPMS5	070731-3
7440-47-3	Chromium	2.1	ug/L	B		MS	1	1	ICPMS5	070731-3
7440-48-4	Cobalt	0.10	ug/L	U		MS	0.1	1	ICPMS5	070731-3
7440-50-8	Copper	0.20	ug/L	U		MS	0.2	1	ICPMS5	070731-3
7439-89-6	Iron	21.9	ug/L	B		MS	10	1	ICPMS5	070731-3
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	070731-3
7439-95-4	Magnesium	5	ug/L	**u**		MS	5	1	ICPMS5	070731-3
7439-96-5	Manganese	1	ug/L	**u**		MS	1	1	ICPMS5	070731-3
7439-97-6	Mercury	0.030	ug/L	**u**		AV	0.03	1	MER536	080707W1-1
7439-98-7	Molybdenum	0.130	ug/L	B		MS	0.1	1	ICPMS5	070731-3
7440-02-0	Nickel	0.50	ug/L	U		MS	0.5	1	ICPMS5	070731-3
7440-09-7	Potassium	80	ug/L	**u**		MS	80	1	ICPMS5	070731-3
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	ICPMS5	070731-3
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	1	ICPMS5	070731-3
7440-23-5	Sodium	80	ug/L	**u**		MS	80	1	ICPMS5	070731-3
7440-28-0	Thallium	0.30	ug/L	**u**		MS	0.3	1	ICPMS5	070731-3
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS5	070731-3
7440-66-6	Zinc	2	ug/L	U	E	MS	2	1	ICPMS5	070731-3

METALS
- I -
INORGAMCS ANALYSIS DATA PACKAGE

SDG.No: I90I2S METHOD TYPE: SW846

SAMPLE ID: 190128021 CLIENT ID: OK-QC-PB-01

CONTRACT: BLVE00S07

MATRIX:W DATE RECEIVED 24-JUL-07 LEVEL: Lou %SOLIDS:

CAS No	Analyte	Result	Units	£	Qual	M	MDL	SE	Instrument m	Analytical Run
7429-90-5	Aluminum	9.4	ug/L	B		MS	5.6	I	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	070731-2
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	39.4	ug/L	B		MS	23	1	ICPMS5	070731-2
7440-47-3	Chromium	2.2	ug/L	B		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	0.10	ug/L	U		MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	0.20	ug/L	*V*		MS	0.2	1	ICPMS5	070731-2
7439-89-6	Iron	10	ug/L	u		MS	10	1	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	5	ug/L	u		MS	5	1	ICPMS5	070731-2
7439-96-5	Manganese	1	ug/L	u		MS	1	1	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080707WI-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	80	ug/L	u		MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	80	ug/L	u		MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.360	ug/L	B		MS	*0.3*	1	1CPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	2	ug/L	u	E	MS	2	1	ICPMS5	070731-2

METALS
- 1 -
INORGAMCS ANALYSIS DATA PACKAGE

SDGNo: 190128 **METHOD TYPE:** SW846

SAMPLE ID: 190128022 **CLIENT ID:** OKO07-SW--001

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	AnaiYte	Result	Units	£	Qual	M	MDL	DF	Instrumen t ID	Analytical Run
7429-90-5	Aluminum	2300	ug/L			MS	5.6	1	ICPMS5	070731-2
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	070731-2
7440-39-3	Barium	13	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-41-7	Beryllium	9	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-43-9	Cadmium	9.9	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-70-2	Calcium	127000	ug/L			MS	2300	100	ICPMS5	070731-2
7440-47-3	Chromium	1	ug/L	u		MS	1	1	ICPMS5	070731-2
7440-48-4	Cobalt	144	ug/L			MS	0.1	1	ICPMS5	070731-2
7440-50-8	Copper	6170	ug/L			MS	20	100	ICPMS5	070731-2
7439-89-6	Iron	826	ug/L			MS	10	1	ICPMS5	070731-2
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	070731-2
7439-95-4	Magnesium	6050	ug/L			MS	5	1	ICPMS5	070731-2
7439-96-5	Manganese	3640	ug/L			MS	100	100	ICPMS5	070731-2
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	080707W1-1
7439-98-7	Molybdenum	0.220	ug/L	B		MS	0.1	1	ICPMS5	070731-2
7440-02-0	Nickel	40.5	ug/L			MS	0.5	1	ICPMS5	070731-2
7440-09-7	Potassium	8850	ug/L			MS	80	1	ICPMS5	070731-2
7782-49-2	Selenium	1.7	ug/L	B		MS	1.5	1	ICPMS5	070731-2
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	070731-2
7440-23-5	Sodium	2800	ug/L			MS	80	1	ICPMS5	070731-2
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	070731-2
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	070731-2
7440-66-6	Zinc	1880	ug/L		E	MS	2	1	ICPMS5	070731-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556001 **CLIENTID:** OK006-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	DF	Instrument ›D	Analytical Run
7429-90-5	Aluminum	2640	ug/L			MS	5.6	1	ICPMS5	071118-5
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	33.4	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.770	ug/L			MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	1.6	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	40900	ug/L			MS	23	1	ICPMS5	071118-5
7440-47-3	Chromium	3.3	ug/L			MS	I	1	ICPMS5	071118-5
7440-48-4	Cobalt	52.7	ug/L			MS	0.1	1	ICPMS5	071118-5
7440-50-8	Copper	375	ug/L			MS	0.2	1	ICPMS5	071118-5
7439-89-6	Iron	20300	ug/L		E	MS	10	1	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	5960	ug/L			MS	5	1	ICPMS5	071118-5
7439-96-5	Manganese	604	ug/L			MS	5	1	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.110	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	11.5	ug/L			MS	0.5	1	ICPMS5	071118-5
7440-09-7	Potassium	12600	ug/L			MS	80	1	ICPMS5	071118-5
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2630	ug/L			MS	80	1	ICPMS5	071118-5
7440-28-0	Thallium	0.60	ug/L	B		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071118-5
7440-66-6	Zinc	532	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556002 **CLIENT ID:** OK007-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M.	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	196	ug/L			MS	5.6	1	ICPMS5	071118-5
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	38.9	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.150	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	2500	ug/L			MS	23	1	1CPMS5	071118-5
7440-47-3	Chromium	1	ug/L	U		MS	1	1	ICPMS5	071118-5
7440-48-4	Cobalt	11.3	ug/L			MS	0.1	I	ICPMS5	071118-5
7440-50-8	Copper	2.1	ug/L			MS	0.2	1	ICPMS5	071118-5
7439-89-6	Iron	247	ug/L		E	MS	10	1	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	803	ug/L			MS	5	1	ICPMS5	071118-5
7439-96-5	Manganese	167	ug/L			MS	1	1	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	1.8	ug/L	B		MS	0.5	1	ICPMS5	071118-5
7440-09-7	Potassium	1610	ug/L			MS	80	1	ICPMS5	071118-5
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	1020	ug/L			MS	80	1	ICPMS5	071118-5
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071118-5
7440-66-6	Zinc	17.2	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556003 **CLIENT ID:** OK008-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	335	ug/L			MS	5.6	1	ICPMS5	071118-5
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	92.9	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	5640	ug/L			MS	23	1	ICPMS5	071118-5
7440-47-3	Chromium	I	ug/L	u		MS	1	1	ICPMS5	071118-5
7440-48-4	Cobalt	8.5	ug/L			MS	0.1	I	ICPMS5	071118-5
7440-50-8	Copper	27.8	ug/L			MS	0.2	1	ICPMS5	071118-5
7439-89-6	Iron	3990	ug/L		E	MS	10	1	ICPMS5	071118-5
7439-92-1	Lead	1.7	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	666	ug/L			MS	5	1	ICPMS5	071118-5
7439-96-5	Manganese	141	ug/L			MS	1	1	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-I
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	1.4	ug/L	B		MS	0.5	1	ICPMS5	071118-5
7440-09-7	Potassium	7410	ug/L			MS	80	1	ICPMS5	071118-5
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	1730	ug/L			MS	80	1	ICPMS5	071118-5
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071118-5
7440-66-6	Zinc	39.5	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556004 **CLIENT ID:** OK009-SW-001

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	D£	Instrument IP.	Analytical Run
7429-90-5	Aluminum	20700	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	11.2	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	3	ug/L			MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	6.7	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	429000	ug/L			MS	2300	100	ICPMS5	071118-5
7440-47-3	Chromium	58.3	ug/L			MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	527	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	614	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	3300000	ug/L		E	MS	1000	100	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	129000	ug/L			MS	500	100	ICPMS5	071118-5
7439-96-5	Manganese	25400	ug/L			MS	100	100	ICPMS5	071118-5
7439-97-6	Mercury	0.083	ug/L	B		AV	0.03	1	MER536	11I607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	70.9	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	42100	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	4.8	ug/L	B		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	3	ug/L			MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	7030	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	36.4	ug/L			MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	5230	ug/L		E	MS	200	100	ICPMS5	071118-5

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556005 **CLIENT ID:** OK010-SW-001

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	1990	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	32.1	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.570	ug/L			MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.430	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	398000	ug/L			MS	2300	100	ICPMS5	071118-5
7440-47-3	Chromium	7.1	ug/L			MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	135	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	37.4	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	1820000	ug/L		E	MS	1000	100	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	83800	ug/L			MS	500	100	ICPMS5	071118-5
7439-96-5	Manganese	15300	ug/L			MS	100	100	ICPMS5	071118-5
7439-97-6	Mercury	0.031	ug/L	B		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.620	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	21.4	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	35200	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	1.4	ug/L			MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	4630	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	7.4	ug/L	B		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	722	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556006 **CLIENT ID:** OKOl l-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	Q	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	2670	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	35.9	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.680	ug/L			MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	1.5	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	95300	ug/L			MS	230	10	ICPMS5	071118-5
7440-47-3	Chromium	4.5	ug/L			MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	63.4	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	255	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	279000	ug/L		E	MS	100	10	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	19200	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	3090	ug/L			MS	10	10	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.210	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	11.9	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	16000	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.6	ug/L	B		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.230	ug/L	B		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	3330	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	B		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	516	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556007 **CLIENT ID:** OK014-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M.	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	5880	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	16.2	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.790	ug/L			MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	1.5	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	78900	ug/L			MS	230	10	ICPMS5	071118-5
7440-47-3	Chromium	6.5	ug/L			MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	91.7	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	208	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	143000	ug/L		E	MS	100	10	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	15000	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	2510	ug/L			MS	10	10	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	14.5	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	9830	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2700	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	574	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556008 **CLIENT ID:** OK014-SW-001D

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	5720	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	17	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.680	ug/L			MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	1.5	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	79900	ug/L			MS	230	10	ICPMS5	071118-5
7440-47-3	Chromium	6.4	ug/L			MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	89.6	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	201	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	142000	ug/L		E	MS	100	10	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	14200	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	2520	ug/L			MS	10	10	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	112107W1-2
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	14.2	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	9650	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.520	ug/L	B		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2710	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	555	ug/L		E	MS	2	I	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 METHOD TYPE: SW846

SAMPLE ID: 197556009 CLIENT ID: OK015-SW-001

CONTRACT: BLVE00807

MATRIX:SU DATE RECEIVED 20-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M.	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	258	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	15	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	2540	ug/L			MS	23	1	ICPMS5	071117-4
7440-47-3	Chromium	3	ug/L	B		MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	0.230	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	1.6	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	315	ug/L		E	MS	10	1	ICPMS5	071117-4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	1070	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	12.6	ug/L			MS	1	1	ICPMS5	071117-4
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	0.670	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	1050	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2420	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	2.9	ug/L	B	E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556010 **CLIENT ID:** OK016-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	633	ug/L			MS	*5.6*	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	**u**		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	13.8	ug/L			MS	0.5	I	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	**u**		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.150	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	9270	ug/L			MS	23	1	ICPMS5	071117-4
7440-47-3	Chromium	2.2	ug/L	B		MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	8.5	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	20.6	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	12900	ug/L		E	MS	10	1	ICPMS5	071117-4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	2310	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	226	ug/L			MS	1	1	ICPMS5	071117-4
7439-97-6	Mercury	0.030	ug/L	**u**		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	**u**		MS	0,1	1	ICPMS5	071117-4
7440-02-0	Nickel	1.6	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	1770	ug/L			MS	80	3	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2540	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	**u**		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	103	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556011 **CLIENT ID:** OK016-SW-002

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	211	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	12.6	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	5670	ug/L			MS	23	1	ICPMS5	071117-4
7440-47-3	Chromium	1.5	ug/L	B		MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	5.1	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	10.2	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	2930	ug/L		E	MS	10	1	ICPMS5	071117-4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	1570	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	114	ug/L			MS	1	1	ICPMS5	071117-4
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	1	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	1300	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	073117-4
7440-23-5	Sodium	2710	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	25.4	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556012 **CLIENT ID:** OK016-SW-003

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	231	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	13	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	2780	ug/L			MS	23	1	ICPMS5	071117-4
7440-47-3	Chromium	1.7	ug/L	B		MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	0.580	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	2.4	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	930	ug/L		E	MS	10	1	ICPMS5	071117-4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	1100	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	24	ug/L			MS	1	1	ICPMS5	071117-4
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	0.50	ug/L	u		MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	1000	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2410	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	4.3	ug/L	B	E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556013 **CLIENT ID:** OK017-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M.	MDL	DF	Instrument m	Analytical Run
7429-90-5	Aluminum	445	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	17.8	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	I	ICPMS3	071118-3
7440-43-9	Cadmium	0.110	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	6770	ug/L			MS	23	1	ICPMS5	071117-4
7440-47-3	Chromium	1.4	ug/L	B		MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	6.3	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	18	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	2870	ug/L		E	MS	10	1	1CPMS5	071117-4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	1900	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	156	ug/L			MS	1	1	ICPMS5	071117-4
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	1.3	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	1550	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2370	ug/L			MS	80	I	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	40.3	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556014 **CLIENT ID:** OK018-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	371	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	19.8	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.150	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	6940	ug/L			MS	23	1	ICPMS5	071117-4
7440-47-3	Chromium	1.5	ug/L	B		MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	7.9	ug/L			MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	20.4	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	1430	ug/L		E	MS	10	1	ICPMS5	071117-4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	1850	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	199	ug/L			MS	1	1	ICPMS5	071117-4
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	1.7	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	1520	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2330	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	44.8	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS **DATA** PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556015 **CLIENT ID:** OK018-SW-002

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	PF	Instrument ID	Analytical Run
7429-90-5	Aluminum	504	ug/L			MS	5.6	1	ICPMS5	071118-5
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	I	ICPMS5	071117-4
7440-39-3	Barium	19.8	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.130	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	6150	ug/L			MS	23	1	ICPMS5	071118-5
7440-47-3	Chromium	1.3	ug/L	B		MS	1	1	ICPMS5	071118-5
7440-48-4	Cobalt	7.1	ug/L			MS	0.1	1	ICPMS5	071118-5
7440-50-8	Copper	21.7	ug/L			MS	0.2	1	ICPMS5	071118-5
7439-89-6	Iron	3030	ug/L		E	MS	10	1	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	1730	ug/L			MS	5	1	ICPMS5	071118-5
7439-96-5	Manganese	178	ug/L			MS	1	1	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	1.7	ug/L	B		MS	0.5	J	ICPMS5	071118-5
7440-09-7	Potassium	1390	ug/L			MS	80	1	ICPMS5	071118-5
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2110	ug/L			MS	80	1	ICPMS5	071118-5
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071118-5
7440-66-6	Zinc	46.9	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556016 **CLIENT ID:** OK018-SW-003

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	313	ug/L			MS	5.6	1	ICPMS5	071118-5
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	18.9	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.140	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	6280	ug/L			MS	23	1	ICPMS5	071118-5
7440-47-3	Chromium	1	ug/L	U		MS	1	1	ICPMS5	071118-5
7440-48-4	Cobalt	7.7	ug/L			MS	0.1	1	ICPMS5	071118-5
7440-50-8	Copper	22.4	ug/L			MS	0.2	1	ICPMS5	071118-5
7439-89-6	Iron	1550	ug/L		E	MS	10	1	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	1710	ug/L			MS	5	1	ICPMS5	071118-5
7439-96-5	Manganese	175	ug/L			MS	1	1	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	1.6	ug/L	B		MS	0.5	1	ICPMS5	071II8-5
7440-09-7	Potassium	1470	ug/L			MS	80	1	ICPMS5	071118-5
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2220	ug/L			MS	80	1	ICPMS5	071118-5
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071118-5
7440-66-6	Zinc	45.3	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- I -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556017 **CLIENT ID:** OK021-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	16.9	ug/L			MS	5.6	1	ICPMS5	071118-5
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	**u**		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	21.9	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	**u**		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	5790	ug/L			MS	23	1	ICPMS5	071118-5
7440-47-3	Chromium	1	ug/L	**u**		MS	1	1	ICPMS5	071118-5
7440-48-4	Cobalt	5.3	ug/L			MS	0.1	1	ICPMS5	071118-5
7440-50-8	Copper	3.9	ug/L			MS	0.2	1	ICPMS5	071118-5
7439-89-6	Iron	62.8	ug/L		E	MS	10	1	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	**u**		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	1510	ug/L			MS	5	1	ICPMS5	071118-5
7439-96-5	Manganese	311	ug/L			MS	1	1	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	**u**		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	1.7	ug/L	B		MS	0.5	1	ICPMS5	071118-5
7440-09-7	Potassium	1380	ug/L			MS	80	1	ICPMS5	071118-5
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2300	ug/L			MS	80	1	ICPMS5	071118-5
7440-28-0	Thallium	0.30	ug/L	**u**		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS5	071118-5
7440-66-6	Zinc	20.9	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556018 **CLIENT ID:** OK022-SW-001

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 20JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	913	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	20.6	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	2210	ug/L			MS	23	1	ICPMS5	071117-4
7440-47-3	Chromium	1.9	ug/L	B		MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	0.520	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	1.7	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	946	ug/L		E	MS	10	1	ICPMS5	071117-4
7439-92-1	Lead	0.590	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	799	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	29.5	ug/L			MS	1	1	ICPMS5	071117-4
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	0.790	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	1210	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	1950	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	4.5	ug/L	B	E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556019 **CLIENT ID:** OK023-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	1210	ug/L			MS	5.6	1	ICPMS5	071118-5
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	26.5	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.370	ug/L	B		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.320	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-70-2	Calcium	11800	ug/L			MS	23	1	ICPMS5	071118-5
7440-47-3	Chromium	1.2	ug/L	B		MS	1	1	ICPMS5	071118-5
7440-48-4	Cobalt	22.2	ug/L			MS	0.1	1	ICPMS5	071118-5
7440-50-8	Copper	33	ug/L			MS	0.2	1	ICPMS5	071118-5
7439-89-6	Iron	833	ug/L		E	MS	10	1	ICPMS5	071118-5
7439-92-1	Lead	0.50	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	2530	ug/L			MS	5	1	ICPMS5	071118-5
7439-96-5	Manganese	1250	ug/L			MS	10	10	ICPMS5	071118-5
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	4.9	ug/L			MS	0.5	1	ICPMS5	071118-5
7440-09-7	Potassium	1800	ug/L			MS	80	1	ICPMS5	071118-5
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071117-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071117-4
7440-23-5	Sodium	2260	ug/L			MS	80	I	ICPMS5	071118-5
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071118-5
7440-66-6	Zinc	69.8	ug/L		E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197556 **METHOD TYPE:** SW846

SAMPLE ID: 197556020 **CLIENT ID:** OK026-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M.	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	152	ug/L			MS	5.6	1	ICPMS5	071117-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071117-4
7440-39-3	Barium	12.3	ug/L			MS	0.5	1	ICPMS5	071117-4
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS3	071118-3
7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	ICPMS5	071317-4
7440-70-2	Calcium	4640	ug/L			MS	23	1	ICPMS5	071117-4
7440-47-3	Chromium	1.6	ug/L	B		MS	1	1	ICPMS5	071117-4
7440-48-4	Cobalt	0.230	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-50-8	Copper	1.2	ug/L			MS	0.2	1	ICPMS5	071117-4
7439-89-6	Iron	384	ug/L		E	MS	10	1	ICPMS5	071117-4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071117-4
7439-95-4	Magnesium	2020	ug/L			MS	5	1	ICPMS5	071117-4
7439-96-5	Manganese	19.6	ug/L			MS	1	1	ICPMS5	071117-4
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-1
7439-98-7	Molybdenum	0.140	ug/L	B		MS	0.1	1	ICPMS5	071117-4
7440-02-0	Nickel	0.560	ug/L	B		MS	0.5	1	ICPMS5	071117-4
7440-09-7	Potassium	1240	ug/L			MS	80	1	ICPMS5	071117-4
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071137-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	073 3 37-4
7440-23-5	Sodium	5420	ug/L			MS	80	1	ICPMS5	071117-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071117-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071117-4
7440-66-6	Zinc	2	ug/L	U	E	MS	2	1	ICPMS5	071117-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564001 **CLIENT ID:** OKOOl-SW-001

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	112107W1-2

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564002 **CLIENT ID:** OK001-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF.	Instrument n>	Analytical Run
7429-90-5	Aluminum	3120	ug/L			MS	5.6	1	ICPMS5	071116-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	23.8	ug/L		N	MS	0.5	1	ICPMS5	071116-3
7440-41-7	Beryllium	7	ug/L			MS	0.1	1	ICPMS5	071116-4
7440-43-9	Cadmium	9.7	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-70-2	Calcium	61600	ug/L			MS	2300	1(30	ICPMS5	071116-3
7440-47-3	Chromium	1	ug/L	U		MS	1	l	ICPMS5	071116-3
7440-48-4	Cobalt	102	ug/L			MS	0.1	.1	ICPMS5	071116-3
7440-50-8	Copper	4270	ug/L			MS	20	1(0)0	ICPMS5	071116-3
7439-89-6	Iron	697	ug/L			MS	10	l	ICPMS5	071116-3
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	l	ICPMS5	071116-3
7439-95-4	Magnesium	5030	ug/L			MS	5	l	ICPMS5	071116^1
7439-96-5	Manganese	2700	ug/L			MS	100	HX)	ICPMS5	071116-3
7439-98-7	Molybdenum	0.170	ug/L	B		MS	0.1	l	ICPMS5	071116-3
7440-02-0	Nickel	45	ug/L			MS	0.5	l	ICPMS5	071116-3
7440-09-7	Potassium	5540	ug/L			MS	80	I	ICPMS5	071116-3
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	l	ICPMS5	071116-3
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071116-3
7440-23-5	Sodium	3870	ug/L			MS	80	I	ICPMS5	071116-3
7440-28-0	Thallium	0.320	ug/L	B		MS	0.3	1	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	1CPMS5	071116-3
7440-66-6	Zinc	1720	ug/L		]E	MS	2	1	ICPMS5	071116-3

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564003 **CLIENT ID:** OK002-SW-001

CONTRACT: BLVEO0807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	1020	ug/L			MS	5.6	1	ICPMS5	071116-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	31.3	ug/L		N	MS	0.5	1	ICPMS5	071116-3
7440-41-7	Beryllium	1.1	ug/L			MS	0.1	1	ICPMS5	071116-4
7440-43-9	Cadmium	1.6	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-70-2	Calcium	22400	ug/L			MS	23	1	ICPMS5	071116-3
7440-47-3	Chromium	1	ug/L	U		MS	1	1	ICPMS5	071116-3
7440-48-4	Cobalt	34.8	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-50-8	Copper	616	ug/L			MS	2	10	ICPMS5	071116-3
7439-89-6	Iron	15100	ug/L			MS	10	1	ICPMS5	071116-3
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7439-95-4	Magnesium	3050	ug/L			MS	5	1	ICPMS5	071116-4
7439-96-5	Manganese	743	ug/L			MS	1	1	ICPMS5	071116-3
7439-98-7	Molybdenum	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116-3
7440-02-0	Nickel	11.3	ug/L			MS	0.5	1	ICPMS5	071116-3
7440-09-7	Potassium	2340	ug/L			MS	80	1	ICPMS5	071116-3
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-3
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071116-3
7440-23-5	Sodium	2260	ug/L			MS	80	1	ICPMS5	071116-3
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071116-3
7440-66-6	Zinc	404	ug/L		E	MS	2	1	ICPMS5	071116-3

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564004 **CLIENT ID:** OK002-SW-001

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	Q	Qual	M	MEL	PE	Instrument ID	Analytical Run
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	111607W3-1

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 METHOD TYPE: SW846

SAMPLE ID: 197564005 CLIENT ID: OK004-SW-001

CONTRACT: BLVE00807

MATRIX: SU DATE RECEIVED 24-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MEL	BE	Instrument ID	Analytical Run
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-1

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 METHOD TYPE: SW846

SAMPLE ID: 197564006 CLIENT ID: OK004-SW-001

CONTRACT: BLVE00807

MATRIXrSU DATE RECEIVED 24-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL	p_F	Instrument ID	Analytical Run
7429-90-5	Aluminum	16000	ug/L			MS	5.6	1	ICPMS5	071116-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.6	ug/L	B		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	17.2	ug/L		N	MS	5	10	ICPMS5	071116-3
7440-41-7	Beryllium	25.8	ug/L			MS	0.1	1	ICPMS5	071116-4
7440-43-9	Cadmium	21.4	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-70-2	Calcium	77200	ug/L			MS	230	10	ICPMS5	071116-3
7440-47-3	Chromium	1	ug/L	U		MS	1	1	ICPMS5	071116-3
7440-48-4	Cobalt	248	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-50-8	Copper	13400	ug/L			MS	100	500	ICPMS5	071116-3
7439-89-6	Iron	933	ug/L			MS	10	1	ICPMS5	071116-3
7439-92-1	Lead	5	ug/L	U		MS	5	10	ICPMS5	071116-3
7439-95-4	Magnesium	5320	ug/L			MS	5	1	ICPMS5	071116-4
7439-96-5	Manganese	5060	ug/L			MS	10	10	ICPMS5	071116-3
7439-98-7	Molybdenum	0.320	ug/L	B		MS	0.1	1	ICPMS5	071116-3
7440-02-0	Nickel	66.2	ug/L			MS	0.5	I	ICPMS5	071116-3
7440-09-7	Potassium	8900	ug/L			MS	80	1	ICPMS5	071116-3
7782-49-2	Selenium	5.3	ug/L			MS	1.5	1	ICPMS5	071116-3
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	071116-3
7440-23-5	Sodium	3640	ug/L			MS	80	1	ICPMS5	071116-3
7440-28-0	Thallium	3	ug/L	U		MS	3	10	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS5	071116-3
7440-66-6	Zinc	4500	ug/L		]E	MS	20	10	ICPMS5	071116-3

METALS

- 1 -

INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 METHOD TYPE: SW846

SAMPLE ID: 197564007 CLIENT ID: OK005-SW-001

CONTRACT: BLVE00807

MATRIX: SU DATE RECEIVED 24-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-I

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564008 **CLIENT ID:** OK005-SW-001

CONTRACT: BLVEO0807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	DF	Instrument ID	Analytical Rm,
7429-90-5	Aluminum	15.3	ug/L	B		MS	5.6	1	1CPMS5	071116-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	23.6	ug/L		N	MS	0.5	1	ICPMS5	071116-3
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116-4
7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	1CPMS5	071116-3
7440-70-2	Calcium	2350	ug/L			MS	23	1	ICPMS5	071116-3
7440-47-3	Chromium	1	ug/L	U		MS	1	1	ICPMS5	071116-3
7440-48-4	Cobalt	4.3	ug/L	B		MS	0.1	1	ICPMS5	071116-3
7440-50-8	Copper	3.8	ug/L			MS	0.2	1	ICPMS5	071116-3
7439-89-6	Iron	2760	ug/L			MS	10	1	ICPMS5	071116-3
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	071116-3
7439-95-4	Magnesium	375	ug/L			MS	5	1	ICPMS5	071116-4
7439-96-5	Manganese	37.4	ug/L			MS	1	1	ICPMS5	071116-3
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-3
7440-02-0	Nickel	2.8	ug/L	B		MS	0.5	1	ICPMS5	071116-3
7440-09-7	Potassium	1150	ug/L			MS	80	1	ICPMS5	071116-3
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-3
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	071116-3
7440-23-5	Sodium	1160	ug/L			MS	80	1	ICPMS5	071116-3
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071116-3
7440-66-6	Zinc	7.6	ug/L	B	E	MS	2	1	ICPMS5	071116-3

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564009 **CLIENT ID:** OK013-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED 24-JUL-07** **LEVEL: Low** **%SOLIDS:**

CAS No	Anaiyte	Result	Units	C	Oual	M	MDL	*m*	Instrument ID	Analytical Run
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	11I607W3-1

METALS

- 1 -

INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564010 **CLIENT ID:** OK013-SW-001

CONTRACT: BLVE0O807

MATRIXrSU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	fJF	Instrument ID	Analytical gun
7429-90-5	Aluminum	4560	ug/L			MS	5.6	I	ICPMS5	071116-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	21.3	ug/L		N	MS	0.5	1	ICPMS5	071116-3
7440-41-7	Beryllium	0.820	ug/L	B		MS	0.1	1	ICPMS5	071116^1
7440-43-9	Cadmium	1.5	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-70-2	Calcium	124000	ug/L			MS	230	10	ICPMS5	071116-3
7440-47-3	Chromium	4.6	ug/L	B		MS	1	1	ICPMS5	071116-3
7440-48-4	Cobalt	114	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-50-8	Copper	268	ug/L			MS	2	I0	ICPMS5	071116-3
7439-89-6	Iron	359000	ug/L			MS	100	10	ICPMS5	071116-3
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	l	ICPMS5	071116-3
7439-95-4	Magnesium	19600	ug/L			MS	5	l	ICPMS5	071116-4
7439-96-5	Manganese	3780	ug/L			MS	10	10	ICPMS5	071116-3
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	l	ICPMS5	071116-3
7440-02-0	Nickel	18.7	ug/L			MS	0.5	l	ICPMS5	071116-3
7440-09-7	Potassium	16800	ug/L			MS	80	1	ICPMS5	071116-3
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	l	ICPMS5	071116-3
7440-22-4	Silver	0.340	ug/L	B		MS	0.2	1	ICPMS5	071116-3
7440-23-5	Sodium	3460	ug/L			MS	80	1	ICPMS5	071116-3
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	i	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	u		MS	3	]	ICPMS5	071116-3
7440-66-6	Zinc	632	ug/L		E	MS	2	l	ICPMS5	071116-3

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564011 **CLIENT ID:** OK019-SW-004

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MPi	DF	Instrument m	Analytical Run
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	I11607W3-1

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 METHOD TYPE: SW846

SAMPLE ID: 1975640)2 CLIENT ID: OK019-SW-004

CONTRACT: BLVE00807

MATRIX:SU DATE RECEIVED 24-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	£	Qual	M	MDL	DE	Instrument ID	Analytical §,,,,
7429-90-5	Aluminum	56.8	ug/L			MS	5.6	1	ICPMS5	071116-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	10.1	ug/L		N	MS	0.5	1	ICPMS5	071116-3
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116^1
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-3
7440-70-2	Calcium	4530	ug/L			MS	23	1	ICPMS5	071116-3
7440-47-3	Chromium	1	ug/L	u		MS	1	1	ICPMS5	071116-3
7440-48-4	Cobalt	3.8	ug/L	B		MS	0.1	1	ICPMS5	071116-3
7440-50-8	Copper	2	ug/L			MS	0.2	1	ICPMS5	071116-3
7439-89-6	Iron	269	ug/L			MS	10	1	ICPMS5	071116-3
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7439-95-4	Magnesium	1730	ug/L			MS	5	1	ICPMS5	071116-4
7439-96-5	Manganese	30.6	ug/L			MS	1	1	ICPMS5	071116-3
7439-98-7	Molybdenum	0.10	ug/L	B		MS	0.1	1	ICPMS5	071116-3
7440-02-0	Nickel	2.8	ug/L	B		MS	0.5	1	ICPMS5	071116-3
7440-09-7	Potassium	1180	ug/L			MS	80	1	ICPMS5	071116-3
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-3
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071116-3
7440-23-5	Sodium	5130	ug/L			MS	80	1	ICPMS5	071116-3
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071116-3
7440-66-6	Zinc	3.8	ug/L	B	E	MS	2	1	ICPMS5	071116-3

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564013 **CLIENT ID:** OK0I9-SW-005

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DE	Instrument 12	Analytical Run
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-1

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564014 **CLIENT ID:** OK019-SW-005

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	63.5	ug/L			MS	5.6	1	ICPMS5	071116-3
7440-36-0	Antimony	0.50	ug/L	**u**		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.5	**ug/L**	**u**		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	11.5	ug/L		**N**	MS	0.5	1	ICPMS5	071116-3
7440-41-7	Beryllium	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	071116-4
7440-43-9	Cadmium	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	071116-3
7440-70-2	Calcium	4930	**ug/L**			MS	23	1	ICPMS5	071116-3
7440-47-3	Chromium	1	ug/L	**u**		MS	**1**	1	1CPMS5	071116-3
7440-48-4	Cobalt	4.3	ug/L	**B**		MS	0.1	1	ICPMS5	071116-3
7440-50-8	Copper	2.7	ug/L			MS	0.2	1	ICPMS5	071116-3
7439-89-6	Iron	277	ug/L			MS	10	1	ICPMS5	071116-3
7439-92-1	Lead	0.50	ug/L	**U**		MS	0.5	1	ICPMS5	071116-3
7439-95-4	Magnesium	1860	ug/L			MS	**5**	1	ICPMS5	071116^1
7439-96-5	Manganese	50.9	**ug/L**			MS	**1**	1	ICPMS5	071116-3
7439-98-7	Molybdenum	0.130	ug/L	**B**		MS	0.1	1	1CPMS5	071116-3
7440-02-0	Nickel	3.1	ug/L	**B**		MS	0.5	1	ICPMS5	071116-3
7440-09-7	Potassium	1300	ug/L			MS	**80**	1	ICPMS5	071116-3
7782-49-2	Selenium	1.5	ug/L	**U**		MS	1.5	**J**	ICPMS5	071116-3
7440-22-4	Silver	0.20	ug/L	**U**		MS	0.2	**1**	ICPMS5	071116-3
7440-23-5	Sodium	5520	ug/L			MS	**80**	**1**	ICPMS5	071116-3
7440-28-0	Thallium	0.30	ug/L	**U**		MS	0.3	**1**	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	**U**		MS	**3**	**1**	ICPMS5	071116-3
7440-66-6	Zinc	4.8	ug/L	**B**	**E**	MS	**2**	**1**	ICPMS5	071116-3

METALS
- 1 -
INORGANTCS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564015 **CLIENT ID:** OK024-SW-001

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument IP.	Analytical Run
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	I11607W3-1

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE: SW846**

SAMPLE ID: 197564016 **CLIENT ID:** OK024-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL: Low** **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qua!	M	MDL	DF	Instrument m	Analytical gun
7429-90-5	Aluminum	3600	ug/L			MS	5.6	1	ICPMS5	071116-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	33.3	ug/L		N	MS	0.5	1	ICPMS5	071116-3
7440-41-7	Beryllium	1.3	ug/L			MS	0.1	1	ICPMS5	071116-4
7440^3-9	Cadmium	0.810	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-70-2	Calcium	31500	ug/L			MS	23	1	ICPMS5	071116-3
7440-47-3	Chromium	1.5	ug/L	B		MS	1	1	ICPMS5	071116-3
7440-48-4	Cobalt	75.9	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-50-8	Copper	76.4	ug/L			MS	0.2	1	ICPMS5	071116-3
7439-89-6	Iron	5250	ug/L			MS	10	1	ICPMS5	071116-3
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7439-95-4	Magnesium	6500	ug/L			MS	5	1	ICPMS5	071116^1
7439-96-5	Manganese	3650	ug/L			MS	10	10	ICPMS5	071116-3
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-3
7440-02-0	Nickel	15.2	ug/L			MS	0.5	1	ICPMS5	071116-3
7440-09-7	Potassium	3680	ug/L			MS	80	1	ICPMS5	071116-3
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071116-3
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071116-3
7440-23-5	Sodium	4260	ug/L			MS	80	1	ICPMS5	071116-3
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071116-3
7440-66-6	Zinc	138	ug/L		E	MS	2	1	ICPMS5	071116-3

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564017 **CLIENT ID:** OK027-SW-001

CONTRACT: BLVEO0807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-1

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564018 **CLIENT ID:** OK027-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical gun
7429-90-5	Aluminum	44.3	ug/L	B		MS	5.6	1	ICPMS5	071116-3
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	13.6	ug/L		N	MS	0.5	1	ICPMS5	071116-3
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-4
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-3
7440-70-2	Calcium	4780	ug/L			MS	23	1	ICPMS5	071116-3
7440-47-3	Chromium	1	ug/L	u		MS	1	1	ICPMS5	071116-3
7440-48-4	Cobalt	3.9	ug/L	B		MS	0.1	1	ICPMS5	071116-3
7440-50-8	Copper	1.8	ug/L	B		MS	0.2	1	ICPMS5	071116-3
7439-89-6	Iron	218	ug/L			MS	10	1	ICPMS5	071116-3
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-3
7439-95-4	Magnesium	2010	ug/L			MS	5	1	ICPMS5	071116^1
7439-96-5	Manganese	34	ug/L			MS	1	1	ICPMS5	071116-3
7439-98-7	Molybdenum	0.120	ug/L	B		MS	0.1	1	ICPMS5	071116-3
7440-02-0	Nickel	2.9	ug/L	B		MS	0.5	1	ICPMS5	071116-3
7440-09-7	Potassium	1420	ug/L			MS	80	1	ICPMS5	071116-3
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-3
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071116-3
7440-23-5	Sodium	5390	ug/L			MS	80	1	ICPMS5	071316-3
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071116-3
7440-66-6	Zinc	4	ug/L	B	E	MS	2	1	ICPMS5	071116-3

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564019 **CLIENT ID:** OK007-SW-001

CONTRACT: BLVE00807

MATRIX: **SU** **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M.	MDL	DF	Instrument jj)	Analytical gun
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	111607W3-1

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197564 **METHOD TYPE:** SW846

SAMPLE ID: 197564020 **CLIENT ID:** OK007-SW-001

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED:** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	1720	ug/L			MS	5.6	1	ICPMS5	071116-3
7440-36-0	Antimony	0.50	**ug/L**	**U**		MS	0.5	1	ICPMS5	071116-3
7440-38-2	Arsenic	1.5	ug/L	**U**		MS	1.5	1	ICPMS5	071116-3
7440-39-3	Barium	12.3	**ug/L**		**N**	MS	0.5	1	1CPMS5	071116-3
7440-41-7	Beryllium	8.9	ug/L			MS	0.1	1	ICPMS5	071116-4
7440-43-9	Cadmium	9.6	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-70-2	Calcium	121000	ug/L			MS	230	10	ICPMS5	071116-3
7440-47-3	Chromium	1	ug/L	**U**		MS	**1**	1	ICPMS5	071116-3
7440-48-4	Cobalt	134	ug/L			MS	0.1	1	ICPMS5	071116-3
7440-50-8	Copper	5930	ug/L			MS	20	100	ICPMS5	071116-3
7439-89-6	Iron	660	ug/L			MS	10	1	ICPMS5	071116-3
7439-92-1	Lead	0.50	ug/L	**U**		MS	0.5	1	ICPMS5	071116-3
7439-95-4	Magnesium	5590	ug/L			MS	***5***	1	ICPMS5	071116-4
7439-96-5	Manganese	3430	ug/L			MS	10	10	ICPMS5	071116-3
7439-98-7	Molybdenum	0.10	ug/L	**U**		MS	0.1	1	ICPMS5	071116-3
7440-02-0	Nickel	37.4	ug/L			MS	0.5	1	ICPMS5	071116-3
7440-09-7	Potassium	8160	ug/L			MS	80	1	1CPMS5	071116-3
7782-49-2	Selenium	1.5	ug/L	**U**		MS	1.5	1	ICPMS5	071116-3
7440-22-4	Silver	0.20	ug/L	**U**		MS	0.2	1	ICPMS5	071116-3
7440-23-5	Sodium	3020	ug/L			MS	80	1	ICPMS5	071116-3
7440-28-0	Thallium	0.30	ug/L	**U**		MS	0.3	1	ICPMS5	071116-3
7440-62-2	Vanadium	3	ug/L	**U**		MS	**3**	1	ICPMS5	071116-3
7440-66-6	Zinc	1860	ug/L		**E**	MS	**2**	1	ICPMS5	071116-3

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 **METHOD TYPE:** SW846

SAMPLE ID: 197573001 **CLIENT ID:** OK026-SW-002

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	p F.	Instrument ffi	Analytical R_{Jm}
7429-90-5	Aluminum	52.8	ug/L			MS	5.6	1	ICPMS5	071116^
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071116-4
7440-39-3	Barium	9.6	ug/L			MS	0.5	1	ICPMS5	071116-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-5
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-4
7440-70-2	Calcium	4790	ug/L			MS	23	1	ICPMS5	071116^
7440-47-3	Chromium	1	ug/L	B		MS	1	1	ICPMS5	071116^
7440^18-4	Cobalt	0.480	ug/L	B		MS	0.1	I	ICPMS5	071116-4
7440-50-8	Copper	1.5	ug/L			MS	0.2	1	ICPMS5	071116^
7439-89-6	Iron	226	ug/L			MS	10	1	ICPMS5	071116^1
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-4
7439-95-4	Magnesium	1890	ug/L			MS	5	1	ICPMS5	071116-5
7439-96-5	Manganese	22.1	ug/L			MS	1	1	ICPMS5	071116^1
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	I12107W1-1
7439-98-7	Molybdenum	0.130	ug/L	B		MS	0.1	1	ICPMS5	071116-4
7440-02-0	Nickel	1.4	ug/L	B		MS	0.5	1	ICPMS3	071117-2
7440-09-7	Potassium	1220	ug/L			MS	80	1	ICPMS5	071116^
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116^*
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	071116^1
7440-23-5	Sodium	5900	ug/L		N	MS	80	1	ICPMS5	071116-4
7440-28-0	Thallium	0.310	ug/L	B		MS	0.3	1	ICPMS5	071116^1
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS5	071116-4
7440-66-6	Zinc	2.2	ug/L	B		MS	2	1	ICPMS5	071116-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 **METHOD TYPE:** SW846

SAMPLE ID: 197573002 **CLIENT ID:** OK026-SW-003

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 20-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS,No	Analyte	Result	Units	£	Qual	il	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	54.2	ug/L			MS	5.6	1	ICPMS5	071116-4
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS5	071116-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071116-4
7440-39-3	Barium	10.8	ug/L			MS	0.5	1	ICPMS5	071116-1
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-5
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-4
7440-70-2	Calcium	4720	ug/L			MS	23	1	ICPMS5	071116-4
7440-47-3	Chromium	1.3	ug/L	B		MS	1	1	ICPMS5	071116-4
7440-48-4	Cobalt	2	ug/L			MS	0.1	1	ICPMS5	071116-4
7440-50-8	Copper	1.9	ug/L			MS	0.2	1	ICPMS5	071116—4
7439-89-6	Iron	263	ug/L			MS	10	1	ICPMS5	071116-4
7439-92-1	Lead	0.50	ug/L	u		MS	0.5	1	ICPMS5	071116-4
7439-95-4	Magnesium	1760	ug/L			MS	5	1	ICPMS5	071116-5
7439-96-5	Manganese	41	ug/L			MS	1	1	ICPMS5	071116-1
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	1	MER536	112107W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-4
7440-02-0	Nickel	1.4	ug/L	B		MS	0.5	1	ICPMS3	071117-2
7440-09-7	Potassium	1090	ug/L			MS	80	1	ICPMS5	071116-4
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116^1
7440-22-1	Silver	0.20	ug/L	U		MS	0.2	1	ICPMS5	071116^
7440-23-5	Sodium	4720	ug/L		N	MS	80	1	ICPMS5	071116-4
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	071116-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071116^1
7440-66-6	Zinc	3.9	ug/L	B		MS	2	1	ICPMS5	071116^1

METALS

- 1 -

INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 **METHOD TYPE:** SW846

SAMPLE ID: 197573003 **CLIENT ID:** OK012-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low % **SOLIDS:**

CAS No	Analyte	Result	Units	£	Qual	M	MDL	£E	Instmment 112	Analytical Run
7429-90-5	Aluminum	4890	ug/L			MS	5.6	1	ICPMS5	071116-4
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	1	ICPMS5	071116—4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	1	ICPMS5	071116-4
7440-39-3	Barium	15.2	ug/L			MS	0.5	1	ICPMS5	071116-4
7440-41-7	Beryllium	0.460	ug/L	B		MS	0.1	1	ICPMS5	071116-5
7440-43-9	Cadmium	0.620	ug/L	B		MS	0.1	1	ICPMS5	071116-4
7440-70-2	Calcium	307000	ug/L			MS	2300	100	ICPMS5	071116-4
7440-47-3	Chromium	11.2	ug/L			MS	I	1	ICPMS5	071116^4
7440-48-4	Cobalt	421	ug/L			MS	0.1	1	ICPMS5	071116^4
7440-50-8	Copper	80.9	ug/L			MS	0.2	1	ICPMS5	071116-4
7439-89-6	Iron	1700000	ug/L			MS	1000	100	ICPMS5	071116^4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116^4
7439-95-4	Magnesium	66900	ug/L			MS	500	100	ICPMS5	071116-5
7439-96-5	Manganese	12600	ug/L			MS	100	100	ICPMS5	071116^4
7439-97-6	Mercury	0.045	ug/L	B		AV	0.03	1	MER536	112107W1-1
7439-98-7	Molybdenum	0.170	ug/L	B		MS	0.1	1	ICPMS5	071116-4
7440-02-0	Nickel	70.4	ug/L			MS	0.5	1	ICPMS3	071117-3
7440-09-7	Potassium	27900	ug/L			MS	80	1	ICPMS5	071116-4
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-4
7440-22-4	Silver	1.4	ug/L			MS	0.2	1	ICPMS5	071116^1
7440-23-5	Sodium	3370	ug/L		N	MS	80	1	ICPMS5	071116-4
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	071116^4
7440-62-2	Vanadium	8.4	ug/L	B		MS	3	1	ICPMS5	071116-4
7440-66-6	Zinc	I960	ug/L			MS	2	1	ICPMS5	071116-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 METHOD TYPE: SW846

SAMPLE ID: 197573004 CLIENT ID: OK013-SW-00ID

CONTRACT: BLVE00807

MATRIX:SU DATE RECEIVED 24-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	fifiguH	iJnJts	£	Ojjal	M	MDL	fiE	Instrument £>	Analytical g^
7429-90-5	Aluminum	4700	ug/L			MS	5.6	1	ICPMS5	071116-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-4
7440-39-3	Barium	20.7	ug/L			MS	0.5	1	ICPMS5	071116-4
7440-41-7	Beryllium	0.870	ug/L			MS	0.1	1	ICPMS5	071116-5
7440-43-9	Cadmium	1.5	ug/L			MS	0.1	1	ICPMS5	071116^4
7440-70-2	Calcium	127000	ug/L			MS	230	10	ICPMS5	071116-4
7440-47-3	Chromium	5.1	ug/L			MS	I	1	ICPMS5	071116-4
7440-48-4	Cobalt	113	ug/L			MS	0.1	1	ICPMS5	071116-4
7440-50-8	Copper	240	ug/L			MS	0.2	1	ICPMS5	071116-*
7439-89-6	Iron	380000	ug/L			MS	100	10	ICPMS5	071116-4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-4
7439-95-4	Magnesium	20700	ug/L			MS	5	1	ICPMS5	071116-5
7439-96-5	Manganese	3970	ug/L			MS	10	10	ICPMS5	071116-4
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	112107W1-1
7439-98-7	Molybdenum	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	071116-4
7440-02-0	Nickel	20.8	ug/L			MS	0.5	1	ICPMS3	071117-3
7440-09-7	Potassium	16000	ug/L			MS	80	1	ICPMS5	071116-4
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	ICPMS5	071116-4
7440-22-4	Silver	0.270	ug/L	B		MS	0.2	1	ICPMS5	071116-4
7440-23-5	Sodium	3680	ug/L		N	MS	80	1	ICPMS5	071116^
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	I	ICPMS5	071116-4
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS5	071116^
7440-66-6	Zinc	650	ug/L			MS	2	1	ICPMS5	071116^4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 METHOD TYPE: SW846

SAMPLE ID: 197573005 CLIENT ID: OK019-SW-001

CONTRACT: BLVE00807

MATRIX:SU DATE RECEIVED 24-JUL-07 LEVEL: Low %SOLIDS:

£AS_Nj2	Analyte	Result	Ujufs.	£	*QmL*	M	**MDL**	DE	Instrument fli	Analytical *Bw*
7429-90-5	Aluminum	257	ug/L			MS	5.6	1	ICPMS5	071116-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	I	ICPMS5	071116-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	I	ICPMS5	071116^4
7440-39-3	Barium	12	ug/L			MS	0.5	1	ICPMS5	071116-4
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116-5
7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116-4
7440-70-2	Calcium	4510	ug/L			MS	23	1	ICPMS5	071116-4
7440-47-3	Chromium	1.6	ug/L	B		MS	1	1	ICPMS5	071116-4
7440-48-4	Cobalt	0.280	ug/L	B		MS	0.1	1	ICPMS5	071116^4
7440-50-8	Copper	1.6	ug/L			MS	0.2	1	ICPMS5	071116-4
7439-89-6	Iron	500	ug/L			MS	10	I	ICPMS5	071116^1
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116^
7439-95-4	Magnesium	1920	ug/L			MS	5	1	ICPMS5	071116-5
7439-96-5	Manganese	20.7	ug/L			MS	1	1	ICPMS5	071116-^
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	112107W1-1
7439-98-7	Molybdenum	0.10	ug/L	**u**		MS	0.1	I	ICPMS5	071116-4
7440-02-0	Nickel	3.8	ug/L			MS	0.5	1	ICPMS3	071117-3
7440-09-7	Potassium	1350	ug/L			MS	80	1	ICPMS5	071116-4
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	ICPMS5	071116-4
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	1	ICPMS5	071116^4
7440-23-5	Sodium	5840	ug/L		N	MS	80	1	ICPMS5	071116-4
7440-28-0	Thallium	0.30	ug/L	**u**		MS	0.3	I	ICPMS5	071116^1
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS5	071116^4
7440-66-6	Zinc	22.3	ug/L			MS	2	I	ICPMS5	071116^*

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 **METHOD TYPE:** SW846

SAMPLE ID: 197573006 **CLIENT ID:** OK019-SW-002

CONTRACT: BLVE00807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CASNO	Analyte	Result	Units	£	Qual	M	MDL	Ut	Instrument m	Analytical Run
7429-90-5	Aluminum	298	ug/L			MS	5.6	1	ICPMS5	071116-4
7440-36-0	Antimony	0.50	ug/L	u		MS	0.5	I	ICPMS5	071116-4
7440-38-2	Arsenic	1.5	ug/L	u		MS	1.5	I	ICPMS5	071116-4
7440-39-3	Barium	12.1	ug/L			MS	0.5	1	ICPMS5	071116^
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	07U16-5
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-4
7440-70-2	Calcium	4660	*ug/L*			MS	23	1	ICPMS5	071116-1
7440-47-3	Chromium	1.4	ug/L	B		MS	1	1	ICPMS5	071116-4
7440-48-4	Cobalt	0.30	ug/L	B		MS	0.1	1	ICPMS5	071116-4
7440-50-8	Copper	1.5	ug/L			MS	0.2	i	ICPMS5	071116-1
7439-89-6	Iron	502	ug/L			MS	10	1	ICPMS5	071116^1
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-4
7439-95-4	Magnesium	2040	ug/L			MS	5	1	ICPMS5	071116-5
7439-96-5	Manganese	22.2	ug/L			MS	1	i	ICPMS5	071116^
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	I	MER536	I12107W1-1
7439-98-7	Molybdenum	0.110	ug/L	B		MS	0.1	1	ICPMS5	071116-1
7440-02-0	Nickel	3.4	ug/L			MS	0.5	1	ICPMS3	071117-3
7440-09-7	Potassium	1340	ug/L			MS	80	1	ICPMS5	071116-1
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-1
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071116^1
7440-23-5	Sodium	5260	ug/L		N	MS	80	1	ICPMS5	071116-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071116-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	1	ICPMS5	071116-4
7440-66-6	Zinc	2.7	ug/L	B		MS	2	1	ICPMS5	071116-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 **METHOD TYPE:** SW846

SAMPLE ID: 197573007 **CLIENT ID:** OK019-SW-003

CONTRACT: BLVEO0807

MATRIX: SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **% SOLIDS:**

CAS No	Analyte	Result	Units	£	Quai	M	M2L	QE	Instrument iQ	Analytical Run
7429-90-5	Aluminum	245	ug/L			MS	5.6	1	ICPMS5	071116-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116^1
7440-39-3	Barium	11.6	ug/L			MS	0.5	I	ICPMS5	071116-4
7440-41-7	Beryllium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-5
7440-43-9	Cadmium	0.10	ug/L	u		MS	0.1	1	ICPMS5	071116-4
7440-70-2	Calcium	4550	ug/L			MS	23	1	ICPMS5	071116^1
7440^7-3	Chromium	1.4	ug/L	B		MS	1	1	ICPMS5	071116-4
7440-48-4	Cobalt	0.370	ug/L	B		MS	0.1	I	ICPMS5	071116^
7440-50-8	Copper	1.6	ug/L			MS	0.2	1	ICPMS5	071116^
7439-89-6	Iron	503	ug/L			MS	10	I	ICPMS5	071116-4
7439-92-1	Lead	0.50	ug/L	U		MS	0-5	I	ICPMS5	071116^
7439-95-4	Magnesium	1830	ug/L			MS	5	1	ICPMS5	071116-5
7439-96-5	Manganese	24.4	ug/L			MS	1	1	ICPMS5	071116-4
7439-97-6	Mercury	0.030	ug/L	u		AV	0.03	I	MER536	112107W1-1
7439-98-7	Molybdenum	0.10	ug/L	u		MS	0.1	I	ICPMS5	071116^1
7440-02-0	Nickel	3.2	ug/L			MS	0.5	I	ICPMS3	071117-3
7440-09-7	Potassium	1230	ug/L			MS	80	1	ICPMS5	071116^1
7782-49-2	Selenium	1.5	ug/L	u		MS	1.5	1	ICPMS5	071116-4
7440-22-4	Silver	0.20	ug/L	u		MS	0.2	1	ICPMS5	071116-4
7440-23-5	Sodium	5860	ug/L		N	MS	80	1	ICPMS5	071116-4
7440-28-0	Thallium	0.30	ug/L	u		MS	0.3	1	ICPMS5	071116-4
7440-62-2	Vanadium	3	ug/L	u		MS	3	I	ICPMS5	071116-4
7440-66-6	Zinc	2.4	ug/L	B		MS	2	1	ICPMS5	071116-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 **METHOD TYPE:** SW846

SAMPLE ID: 197573008 **CLIENT ID:** OK019-SW-005D

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	AMl*i£	Essult	Units	£	*QmL*	M	MDJ,	2E	Instrument ffi	Analvtfcal Bun
7429-90-5	Aluminum	282	ug/L			MS	5.6	1	ICPMS5	071116-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	I	ICPMS5	071116-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-4
7440-39-3	Barium	12.2	ug/L			MS	0.5	1	ICPMS5	071116-4
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116-5
7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116^1
7440-70-2	Calcium	4910	ug/L			MS	23	1	ICPMS5	071116-4
7440-47-3	Chromium	1.4	ug/L	B		MS	1	!	ICPMS5	071116-4
7440-48-4	Cobalt	1.2	ug/L			MS	0.1	1	ICPMS5	071116-4
7440-50-8	Copper	3.5	ug/L			MS	0.2	1	ICPMS5	071116-4
7439-89-6	Iron	799	ug/L			MS	10	1	ICPMS5	071116-4
7439-92-J	Lead	0.50	ug/L	U		MS	0.5	!	ICPMS5	071116-4
7439-95-4	Magnesium	I960	ug/L			MS	5	i	ICPMS5	071116-5
7439-96-5	Manganese	53.5	ug/L			MS	I	I	ICPMS5	071116-4
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	112107W1-1
7439-98-7	Molybdenum	0.10	ug/L	U		MS	0.1	I	ICPMS5	071116^1
7440-02-0	Nickel	3.3	ug/L			MS	*0.5*	**1**	ICPMS3	071117-3
7440-09-7	Potassium	1240	ug/L			MS	80	1	ICPMS5	071116-4
7782^19-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-4
7440-22-4	Silver	0.20	ug/L	U		MS	0.2	I	ICPMS5	071116-4
7440-23-5	Sodium	4790	ug/L		N	MS	80	1	ICPMS5	071116-4
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	071116-4
7440-62-2	Vanadium	3	ug/L	U		MS	3	1	ICPMS5	071116^1
7440-66-6	Zinc	6.9	ug/L	B		MS	2	1	ICPMS5	071116-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 **METHOD TYPE:** SW846

SAMPLE ID: 197573009 **CLIENT ID:** OK020-SW-001

CONTRACT: BLVE00807

MATRIX:SU **DATE RECEIVED** 24-JUL-07 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C.	Quai	M.	MPL	DJE	instrument. JJJ	Analytical _R^
7429-90-5	Aluminum	34.7	ug/L			MS	5.6	I	ICPMS5	071116-4
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-4
7440-39-3	Barium	12.2	ug/L			MS	0.5	1	ICPMS5	071116-4
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116-5
7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116-4
7440-70-2	Calcium	4400	ug/L			MS	23	1	ICPMS5	071116-4
7440-47-3	Chromium	1	ug/L	U		MS	1	I	ICPMS5	071116-4
7440-48-4	Cobalt	3.7	ug/L			MS	0.1	1	ICPMS5	071116-4
7440-50-8	Copper	0.970	ug/L	**B**		MS	0.2	I	ICPMS5	071116-4
7439-89-6	Iron	190	ug/L			MS	10	1	ICPMS5	071116-4
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-4
7439-95-4	Magnesium	1950	ug/L			MS	5	1	ICPMS5	071116-5
7439-96-5	Manganese	19.7	ug/L			MS	1	1	1CPMS5	071116-4
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	I12107W1-1
7439-98-7	Molybdenum	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116-4
7440-02-0	Nickel	3	ug/L			MS	0.5	I	ICPMS3	071117-3
7440-09-7	Potassium	1210	ug/L			MS	80	1	ICPMS5	071116^4
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-4
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	I	ICPMS5	071116-4
7440-23-5	Sodium	5340	ug/L		N	MS	80	1	ICPMS5	071116^1
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	I	ICPMS5	071116-4
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	I	ICPMS5	071116-4
7440-66-6	Zinc	2	ug/L	**u**		MS	2	I	ICPMS5	071116-4

METALS
- 1 -
INORGANICS ANALYSIS DATA PACKAGE

SDGNo: 197573 METHOD TYPE: SW846

SAMPLE ID: 197573010 CLIENT ID: OK025-SW-001

CONTRACT: BLVE00807

MATRIX:SU DATE RECEIVED 24-JUL-07 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	£	Ojial	M	MDJL	*UE*	Instrument JD_	Anjfctfcal Rjm
7429-90-5	Aluminum	143	ug/L			MS	5.6	I	ICPMS5	071116^1
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-4
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071116-1
7440-39-3	Barium	38.6	ug/L			MS	0.5	1	ICPMS5	071116^1
7440-41-7	Beryllium	0.10	ug/L	B		MS	0.1	1	ICPMS5	071116-5
7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	ICPMS5	071116-1
7440-70-2	Calcium	21700	ug/L			MS	23	1	ICPMS5	071116-4
7440-47-3	Chromium	1	ug/L	B		MS	1	1	ICPMS5	071116-4
7440-48-4	Cobalt	6.3	ug/L			MS	0.1	1	ICPMS5	071116-1
7440-50-8	Copper	13.5	ug/L			MS	0.2	1	ICPMS5	071116-4
7439-89-6	Iron	3300	ug/L			MS	10	1	ICPMS5	071116^1
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	071116-1
7439-95-4	Magnesium	5570	ug/L			MS	5	1	ICPMS5	071116-5
7439-96-5	Manganese	476	ug/L			MS	1	1	ICPMS5	071116^1
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	I12107W1-1
7439-98-7	Molybdenum	0.10	ug/L	**u**		MS	0.1	1	ICPMS5	071116-4
7440-02-0	Nickel	5.4	ug/L			MS	0.5	1	ICPMS3	071117-3
7440-09-7	Potassium	2890	ug/L			MS	80	1	ICPMS5	071116-4
7782-49-2	Selenium	1.5	ug/L	**u**		MS	1.5	1	ICPMS5	071116^1
7440-22-4	Silver	0.20	ug/L	**u**		MS	0.2	I	ICPMS5	071116^*
7440-23-5	Sodium	5640	ug/L		N	MS	80	1	ICPMS5	071 U 6^*
7440-28-0	Thallium	0.30	ug/L	**u**		MS	0.3	1	ICPMS5	071116-1
7440-62-2	Vanadium	3	ug/L	**u**		MS	3	1	ICPMS5	071116^1
7440-66-6	Zinc	29.4	ug/L			MS	2	1	ICPMS5	0711 16-t

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Certificate: CO & 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK024-SD-001
Sample Collected: 7/18/07 11:00
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590491
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	'-10.0	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	10.0	TCaC03/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	3.89		ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	0.32	%	LECO	7/31/07
Sulfate Sulfur,S	0.39	%	LECO	7/31/07
Total Sulfur, S	0.71	%	LECO	7/31/07

Reviewed By: _____ Date _ eg//t//r? 87l9?07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. 1000019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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b

Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK200-SL-001
Sample Collected: 7/17/07 18:05
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590492
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-11.9	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	11.9	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	3.38		ASA M9	7/31/07
Non-Ext Sulfur,S	0.03	%	LECO	7/31/07
Pyritic Sulfur,S	0.38	%	LECO	7/31/07
Sulfate Sulfur,S	0.90	%	LECO	7/31/07
Total Sulfur, S	1.31	%	LECO	7/31/07

Reviewed By: Kirby Geary Date ^J/jf/sr?
8/19/&7 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK201-SL-001
Sample Collected: 7/17/07 17:48
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590493
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-7.5	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	7.5	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	3.76		ASA M9.	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	0.24	%	LECO	7/31/07
Sulfate Sulfur,S	0.66	%	LECO	7/31/07
Total Sulfur, S	0.90	%	LECO	7/31/07

Reviewed By: Kirby Gray Date 8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK202-SL-001
Sample Collected: 7/17/07 16:55
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590494
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	2.3	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	0.3	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	2.6	TCaCO3/1000T	EPA600	7/31/07
pH Paste	4.78		ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	0.01	%	LECO	7/31/07
Sulfate Sulfur,S	0.04	%	LECO	7/31/07
Total Sulfur, S	0.05	%	LECO	7/31/07

Reviewed By: _____ Date 8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK203-SL-001
Sample Collected: 7/17/07 17:13
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590495
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	2.3	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	0.3	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	2.6	TCaCO3/1000T	EPA600	7/31/07
pH Paste	4.70		ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	0.01	%	LECO	7/31/07
Sulfate Sulfur,S	0.04	%	LECO	7/31/07
Total Sulfur, S	0.05	%	LECO	7/31/07

Reviewed By: Kirby Gray Date 08/19/07
8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK300-WA-001
Sample Collected: 7/17/07 17:25
Sample Receipt : 7/20/07
•Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590496
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-0.6	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	0.6	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	4.39		ASA M9	7/31/07
Non-Ext Sulfur,S	<0 .01	%	LECO	7/31/07
Pyritic Sulfur,S	0.02	%	LECO	7/31/07
Sulfate Sulfur,S	0.10	%	LECO	7/31/07
Total Sulfur, S	0.12	%	LECO	7/31/07

Reviewed By: Kirby Gray Date £rf//$/py
i/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK301-WA-001
Sample Collected: 7/17/07 18:00
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590497
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-0.3	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	0.3	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	4.41		ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	0.01	%	LECO	7/31/07
Sulfate Sulfur,S	0.03	%	LECO	7/31/07
Total Sulfur, S	0.04	%	LECO	7/31/07

Reviewed By: Kirby Geary Date 08/19/07
8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK351-WA-001
Sample Collected: 7/17/07 16:40
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590498

Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-59.7	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	59.7	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	2.17		ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	1.91	%	LECO	7/31/07
Sulfate Sulfur,S	2.09	%	LECO	7/31/07
Total Sulfur, S	4.00	%	LECO	7/31/07

Reviewed By: Kirby Gray Date 8/19/07

8/19/07 14:35

AZ: A20538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK352-WA-001
Sample Collected: 7/17/07 16:55
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590499
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-239	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	253	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	13.9	TCaCO3/1000T	EPA600	7/31/07
pH Paste	4.04		ASA M9	7/31/07
Non-Ext Sulfur,S	0.02	%	LECO	7/31/07
Pyritic Sulfur,S	8.08	%	LECO	7/31/07
Sulfate Sulfur,S	2.80	%	LECO	7/31/07
Total Sulfur, S	10.9	%	LECO	7/31/07

Reviewed By: Kirby Gray Date tf/rt/eQ 8/19/0*7 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK353-WA-001
Sample Collected: 7/17/07 15:30
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590500

Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-69.7	TCaC03/1000T	EPA600	7/31/07
Acid Generating	69.7	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	3.32		ASA M9	7/31/07
Non-Ext Sulfur,S	0.01	%	LECO	7/31/07
Pyritic Sulfur,S	2.23	%	LECO	7/31/07
Sulfate Sulfur,S	2.96	%	LECO	7/31/07
Total Sulfur, S	5.20	%	LECO	7/31/07

Reviewed By: Kirby Gray Date 8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK354-WA-001
Sample Collected: 7/17/07 15:15
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590501
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-14.4	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	14.4	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	4.02		ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	0.46	%	LECO	7/31/07
Sulfate Sulfur,S	2.66	%	LECO	7/31/07
Total Sulfur, S	3.12	%	LECO	7/31/07

Reviewed By: _____ Date 08/19/07
8/19/0*7 H:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK355-WA-001
Sample Collected: 7/17/07 14:40
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590502
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-195	TCaCO3/1000T	EPA600	7/31/07
Acid. Generating	195	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	3.01		ASA M9	7/31/07
Non-Ext Sulfur,S	0.04	%	LECO	7/31/07
Pyritic Sulfur,S	6.24	%	LECO	7/31/07
Sulfate Sulfur,S	2.76	%	LECO	7/31/07
Total Sulfur, S	9.04	%	LECO	7/31/07

Reviewed By: Kirby Gray Date 8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK355-WA-001D
Sample Collected: 7/17/07 14:40
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590503
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-178	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	178	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	3.01		ASA M9	7/31/07
Non-Ext Sulfur,S	0.04	%	LECO	7/31/07
Pyritic Sulfur,S	5.71	%	LECO	7/31/07
Sulfate Sulfur,S	2.79	%	LECO	7/31/07
Total Sulfur, S	8.54	%	LECO	7/31/07

Reviewed By: Vicky Gray Date 8/19/07
8/49/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK356-WA-001
Sample Collected: 7/17/07 13:00
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590504
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-171	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	171	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	2.25		ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	5.46	%	LECO	7/31/07
Sulfate Sulfur,S	3.22	%	LECO	7/31/07
Total Sulfur, S	8.68	%	LECO	7/31/07

Reviewed By: _____ Date 8/19/07
8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK357-WA-001
Sample Collected: 7/17/07 12:40
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590505
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-150	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	150	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	2.15		ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	4.80	%	LECO	7/31/07
Sulfate Sulfur,S	3.13	%	LECO	7/31/07
Total Sulfur, S	7.93	%	LECO	7/31/07

Reviewed By: Kirby Lacy Date 8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 HA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK358-WA-001
Sample Collected: 7/17/07 12:25
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590506
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-93.4	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	93.4	TCaCO3/l000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	2.16		ASA M9	7/31/07
Non-Ext Sulfur,S	0.01	%	LECO	7/31/07
Pyritic Sulfur,S	2.99	%	LECO	7/31/07
Sulfate Sulfur,S	3.12	%	LECO	7/31/07
Total Sulfur, S	6.12	%	LECO	7/31/07

Reviewed By: Kelly Lacy Date £?//*/& 8?19/*07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK423-SL-001
Sample Collected: 7/18/07 16:25
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590507
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-8.8	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	8.8	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	4.12		ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%	LECO	7/31/07
Pyritic Sulfur,S	0.28	%	LECO	7/31/07
Sulfate Sulfur,S	0.79	%	LECO	7/31/07
Total Sulfur, S	1 .07	%	LECO	7/31/07

Reviewed By: ^ I d ^ j ^ . Date trffoA? 8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00Q19 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK450-WA-001
Sample Collected: 7/18/07 11:10
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590508
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-128	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	128	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	2.28		ASA M9	7/31/07
Non-Ext Sulfur,S	0.03	%	LECO	7/31/07
Pyritic Sulfur,S	4.11	%	LECO	7/31/07
Sulfate Sulfur,S	4.02	%	LECO	7/31/07
Total Sulfur, S	8.16	%	LECO	7/31/07

Reviewed By: Kirby Gray Date 8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK451-WA-001
Sample Collected: 7/18/07 18:25
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590509
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-66.3	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	66.3	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	7/31/07
pH Paste	2.35		ASA M9	7/31/07
Non-Ext Sulfur,S	0.06	%	LECO	7/31/07
Pyritic Sulfur,S	2.12	%	LECO	7/31/07
Sulfate Sulfur,S	2.47	%	LECO	7/31/07
Total Sulfur, S	4.65	%	LECO	7/31/07

Reviewed By: Kirby Gray Date 8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK452-WA-001
Sample Collected: 7/18/07 17:45
Sample Receipt : 7/20/07
Date of Report : 8/19/07

SVL JOB: 130650
SAMPLE: 590510
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-194	TCaCO3/1000T	EPA600	7/31/07
Acid Generating	203	TCaCO3/1000T	EPA600	7/31/07
Acid Neut. Pot.	8.8	TCaCO3/1000T	EPA600	7/31/07
pH Paste	4.91		ASA M9	7/31/07
Non-Ext Sulfur,S	0.05	%	LECO	7/31/07
Pyritic Sulfur,S	6.48	%	LECO	7/31/07
Sulfate Sulfur,S	1.42	%	LECO	7/31/07
Total Sulfur, S	7.95	%	LECO	7/31/07

Reviewed By: Kirby Gray Date 08/19/07
8/19/07 14:35

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK453-WA--001
Sample Collected: 7/18/07 17:15
Sample Receipt : 7/20/07
Date of Report : 8/27/07 As Received Basis

SVL JOB: 130651
SAMPLE: 590513
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
ABP	-147	TCaCO3/1000T		EPA600	7/31/07
Acid Generating	147	TCaCO3/1000T		EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T		EPA600	7/31/07
pH Paste	3.08			ASA M9	7/31/07
Non-Ext Sulfur,S	0.05	%		LECO	7/31/07
Pyritic Sulfur,S	4.71	%		LECO	7/31/07
Sulfate Sulfur,S	3.09	%		LECO	7/31/07
Total Sulfur, S	7.85	%		LECO	7/31/07

Reviewed By: Kirby Gray Date 8?27/t)7 6:57

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK454-WA-0 01
Sample Collected: 7/18/07 15:30
Sample Receipt : 7/20/07
Date of Report : 8/27/07 As Received Basis

SVL JOB: 130651
SAMPLE: 590514
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
ABP	-199	TCaC03/1000T		EPA600	7/31/07
Acid Generating	199	TCaCO3/1000T		EPA600	7/31/07
Acid Neut- Pot.	<0-3	TCaCO3/1000T		EPA600	7/31/07
pH Paste	3.19			ASA M9	7/31/07
Non-Ext Sulfur,S	0.37	%		LECO	7/31/07
Pyritic Sulfur,S	6.37	%		LECO	7/31/07
Sulfate Sulfur,S	2.67	%		LECO	7/31/07
Total Sulfur, S	9.41	%		LECO	7/31/07

Reviewed By: Date $f/37/0-?
•6/2//07 6:57

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. 1019 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK551-SL-001
Sample Collected: 7/18/07 13:45
Sample Receipt : 7/20/07
Date of Report : 8/27/07 As Received Basis

SVL JOB: 130651
SAMPLE: 590515
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
ABP	3.7	TCaC03/1000T		EPA600	7/31/07
Acid Generating	0.9	TCaCO3/1000T		EPA600	7/31/07
Acid Neut. Pot.	4.7	TCaC03/1000T		EPA600	7/31/07
pH Paste	4.83			ASA M9	7/31/07
Non-Ext Sulfur,S	0.02	%		LECO	7/31/07
Pyritic Sulfur,S	0.03	%		LECO	7/31/07
Sulfate Sulfur,S	0.07	%		LECO	7/31/07
Total Sulfur, S	0.12	%		LECO	7/31/07

Reviewed By: Kristy Gray Date 8/27/07 6:57

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

SVL ANALYTICAL, INC.
One Governmsnt Gulch ◂ P.O. Box 929 ▪ Kellogg, Idaho 83837-0929 ▪ Phone: (208)784-1258 . Fax: (208)783-0891

Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK552-WA-001
Sample Collected: 7/18/07 13:10
Sample Receipt : 7/20/07
Date of Report : 8/27/07 As Received Basis

SVL JOB: 130651
SAMPLE: 590516
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
ABP	-13.4	TCaCO3/1000T		EPA600	7/31/07
Acid Generating	13.4	TCaCO3/1000T		EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T		EPA600	7/31/07
pH Paste	4.57			ASA M9	7/31/07
Non-Ext Sulfur,S	0.08	%		LECO	7/31/07
Pyritic Sulfur,S	0.43	%		LECO	7/31/07
Sulfate Sulfur,S	0.33	%		LECO	7/31/07
Total Sulfur, S	0.84	%		LECO	7/31/07

Reviewed By: Lesley Gray Date 08/27/07
8/27/07 6:57

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK553-SL-001
Sample Collected: 7/18/07 15:45
Sample Receipt : 7/20/07
Date of Report : 8/27/07 As Received Basis

SVL JOB: 130651
SAMPLE: 590517
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
ABP	-0.6	TCaCO3/1000T		EPA600	7/31/07
Acid Generating	0.6	TCaCO3/1000T		EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T		EPA600	7/31/07
pH Paste	5.22			ASA M9	7/31/07
Non-Ext Sulfur,S	<0.01	%		LECO	7/31/07
Pyritic Sulfur,S	0.02	%		LECO	7/31/07
Sulfate Sulfur,S	0.05	%		LECO	7/31/07
Total Sulfur, S	0.07	%		LECO	7/31/07

Reviewed By: _____ Date 9?27/ü7 6:57

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK554-SL--001
Sample Collected-: 7/18/07 14:30
Sample Receipt : 7/20/07
Date of Report : 8/27/07 As Received Basis

SVL JOB: 130651
SAMPLE: 590518
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
ABP	13.2	TCaC03/1000T		EPA600	7/31/07
Acid Generating	2.8	TCaCO3/1000T		EPA600	7/31/07
Acid Neut. Pot.	16.0	TCaCO3/1000T		EPA600	7/31/07
pH Paste	5.29			ASA M9	7/31/07
Non-Ext Sulfur,S	0.02	%		LECO	7/31/07
Pyritic Sulfur,S	0.09	%		LECO	7/31/07
Sulfate Sulfur,S	0.09	%		LECO	7/31/07
Total Sulfur, S	0.20	%		LECO	7/31/07

Reviewed By: -c Date 6?J?7/#7 8/27/07 6:57

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK555-WA-001
Sample Collected: 7/18/07 11 :35
Sample Receipt : 7/20/07
Date of Report : 8/27/07 As Received Basis

SVL JOB: 130651
SAMPLE: 590519
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
ABP	-42.2	TCaC03/1000T		EPA600	7/31/07
Acid Generating	42.2	TCaCO3/1000T		EPA600	7/31/07
Acid Neut. Pot.	<0.3	TCaC03/1000T		EPA600	7/31/07
pH Paste	3.09			ASA *U9*	7/31/07
Non-Ext Sulfur,S	0.03	%		LECO	7/31/07
Pyritic Sulfur,S	1 .35	%		LECO	7/31/07
Sulfate Sulfur,S	2.65	%		LECO	7/31/07
Total Sulfur, S	4.03	%		LECO	7/31/07

Reviewed By: -SSi^u^S^- Date &d'ft7/£>l
8/27/07 6:57

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK557-WA-001
Sample Collected: 7/18/07 16:55
Sample Receipt : 7/20/07
Date of Report : 8/27/07 As Received Basis

SVL JOB: 130651
SAMPLE: 590520
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
ABP	36.2	TCaCO3/1000T		EPA600	7/31/07
Acid Generating	29.4	TCaCO3/1000T		EPA600	7/31/07
Acid Neut. Pot.	65.6	TCaCO3/1000T		EPA600	7/31/07
pH Paste	6.79			ASA M9	7/31/07
Non-Ext Sulfur,S	0.42	%		LECO	7/31/07
Pyritic Sulfur,S	0.94	%		LECO	7/31/07
Sulfate Sulfur,S	0.37	%		LECO	7/31/07
Total Sulfur, S	1.73	%		LECO	7/31/07

Reviewed By: Kirby Sisay Date 8V27/07 6:57

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK558-WA-001
Sample Collected: 7/18/07 17:45
Sample Receipt : 7/20/07
Date of Report : 8/27/07 As Received Basis

SVL JOB: 130651
SAMPLE: 590521
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
ABP	32.9	TCaCO3/1000T		EPA600	7/31/07
Acid Generating	11.6	TCaCO3/1000T		EPA600	7/31/07
Acid Neut. Pot.	44.4	TCaC03/1000T		EPA600	7/31/07
pH Paste	6.34			ASA M9	7/31/07
Non-Ext Sulfur,S	0.07	%		LECO	7/31/07
Pyritic Sulfur,S	0.94	%		LECO	7/31/07
Sulfate Sulfur,S	0.64	%		LECO	7/31/07
Total Sulfur, S	1 .08	%		LECO	7/31/07

Reviewed By: Kristy Seay Date 08/27/07
$mftn 6:57

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

E590524

Lab Name: SVL_ANALYTICAL_INC._____ Contract: _____
Lab Code: SILVER Case No: _____ SAS No: _____ SDG No:130652_____
Matrix (soil/water): WATER Lab Sample ID: E590524
Level (low/med): LOW Date Received: 07/20/07
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	9.6	B		P
7440-39-3	Barium	0.82	B		P
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	0.40	U		P
7439-92-1	Lead	2.4	U		P
7439-97-6	Mercury	0.10	U	N	CV
7782-49-2	Selenium	3.9	U		P
7440-22-4	Silver	0.40	U		P

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
EXTRACTION_FLUID

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE NO.

E590526

Lab Name: SVL_ANALYTICAL_INC. Contract:
Lab Code: SILVER Case No: SAS No: SDG No: 130652
Matrix (soil/water): WATER Lab Sample ID: E590526
Level (low/med): LOW Date Received: 07/20/07
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.5	B		P
7440-39-3	Barium	205			P
7440-43-9	Cadmium	7.4			P
7440-47-3	Chromium	2.4	B		P
7439-92-1	Lead	2.4	U		P
7439-97-6	Mercury	0.90		N	CV
7782-49-2	Selenium	3.9	U		P
7440-22-4	Silver	0.68	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
CLIENT_ID: OK557-WA-001
EXTRACTION

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK025-SD-001
Sample Collected: 7/19/07 17:10
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590945
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	6.8	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	0.9	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	7.8	TCaCO3/1000T	EPA600	8/06/07
pH Paste	5.54		ASA M9	8/06/07
Non-Ext Sulfur,S	<0.01	%	LECO	8/06/07
Pyritic Sulfur,S	0.03	%	LECO	8/06/07
Sulfate Sulfur,S	0.10	%	LECO	8/06/07
Total Sulfur, S	0.13	%	LECO	8/06/07

Reviewed By: Kirby Gray Date 08/19/07
8/19/07 15:14

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK207-SL-001
Sample Collected: 7/19/07 13:30
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590946
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-32.5	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	32.5	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	3.49		ASA M9	8/06/07
Non-Ext Sulfur,S	0.03	%	LECO	8/06/07
Pyritic Sulfur,S	1.04	%	LECO	8/06/07
Sulfate Sulfur,S	0.99	%	LECO	8/06/07
Total Sulfur, S	2.06	%	LECO	8/06/07

Reviewed By: Vicky Gray Date etf/tf/e*) 8/19/07 15:14

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK207-SL-001D
Sample Collected: 7/19/07 13:35
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590947
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-30.6	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	30.6	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	3.93		ASA M9	8/06/07
Non-Ext Sulfur,S	0.02	%	LECO	8/06/07
Pyritic Sulfur,S	0.98	%	LECO	8/06/07
Sulfate Sulfur, S	0.99	%	LECO	8/06/07
Total Sulfur, S	1 .99	%	LECO	8/06/07

Reviewed By: ^^T^dCtAM Date 6?//?/£>7

8719/07 15:1'4

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT; 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK424-SL-001
Sample Collected: 7/19/07 10:15
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590948
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-26.9	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	26.9	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	4.86		ASA M9	8/06/07
Non-Ext Sulfur,S	0.03	%	LECO	8/06/07
Pyritic Sulfur,S	0.86	%	LECO	8/06/07
Sulfate Sulfur,S	1.17	%	LECO	8/06/07
Total Sulfur, S	2.06	%	LECO	8/06/07

Reviewed By: Kirby Gray Date 08/19/07
8?19/07 15:1?

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK425-SL-001
Sample Collected: 7/19/07 8:35
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590949
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-14.4	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	14.4	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	2.86		ASA M9	8/06/07
Non-Ext Sulfur,S	0.04	%	LECO	8/06/07
Pyritic Sulfur,S	0.46	%	LECO	8/06/07
Sulfate Sulfur,S	1.01	%	LECO	8/06/07
Total Sulfur, S	1.51	%	LECO	8/06/07

Reviewed By: Kelly Gray Date 8/19/07 15:14

AZ: AZ0538 CA: CERT M0. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK426-SL-001
Sample Collected: 7/19/07 16:00
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590950
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-12.5	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	12.5	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	3.06		ASA M9	8/06/07
Non-Ext Sulfur,S	0.03	%	LECO	8/06/07
Pyritic Sulfur,S	0.40	%	LECO	8/06/07
Sulfate Sulfur,S	1.08	%	LECO	8/06/07
Total Sulfur, S	1.51	%	LECO	8/06/07

Reviewed By: Kirby Gray Date #f//$/pl
8/^9/(57 15:1'4

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. 1000019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK511-SL--001
Sample Collected: 7/19/07 8:40
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590951
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-0.3	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	0.3	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	4.33		ASA M9	8/06/07
Non-Ext Sulfur,S	0.01	%	LECO	8/06/07
Pyritic Sulfur,S	0.01	%	LECO	8/06/07
Sulfate Sulfur,S	0.09	%	LECO	8/06/07
Total Sulfur, S	0.11	%	LECO	8/06/07

Reviewed By: Kristy Geary Date 8/Y9/01 15:14

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK512-SL-001
Sample Collected: 7/19/07 8:25
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590952
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-13.8	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	13.8	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	2.49		ASA M9	8/06/07
Non-Ext Sulfur,S	0.13	%	LECO	8/06/07
Pyritic Sulfur,S	0.44	%	LECO	8/06/07
Sulfate Sulfur,S	3.17	%	LECO	8/06/07
Total Sulfur, S	3.74	%	LECO	8/06/07

Reviewed By: Kirby Gray Date 8/19/07 15:14

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Q-
Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK513-SL-001
Sample Collected: 7/19/07 9:05
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590953
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-8.8	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	8.8	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	2.56		ASA M9	8/06/07
Non-Ext Sulfur,S	0.02	%	LECO	8/06/07
Pyritic Sulfur,S	0.28	%	LECO	8/06/07
Sulfate Sulfur,S	2.75	%	LECO	8/06/07
Total Sulfur, S	3.05	%	LECO	8/06/07

Reviewed By: _____ Date 8/19/07 15:14

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 HT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK513-SL-001D
Sample Collected: 7/19/07 9:15
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590954
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-57.5	TCaCO3/l000T	EPA600	8/06/07
Acid Generating	57.5	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	1.08		ASA M9	8/06/07
Non-Ext Sulfur,S	0.54	%	LECO	8/06/07
Pyritic Sulfur,S	1.84	%	LECO	8/06/07
Sulfate Sulfur,S	4.66	%	LECO	8/06/07
Total Sulfur, S	7.04	%	LECO	8/06/07

Reviewed By: Kelly Shay Date 8/19/07 15:14

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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M
Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK514-SL-001
Sample Collected: 7/19/07 9:30
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590955
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-16.6	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	16.6	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	3.14		ASA M9	8/06/07
Non-Ext Sulfur,S	0.05	%	LECO	8/06/07
Pyritic Sulfur,S	0.53	%	LECO	8/06/07
Sulfate Sulfur,S	0.81	%	LECO	8/06/07
Total Sulfur, S	1 .39	%	LECO	8/06/07

Reviewed By: Kirby Gray Date 08/19/07
8/19/07 15:14

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

SVL ANALYTICAL, INC.
One Government Gulch . P.O. Box 929 - Kellogg, Idaho 83837-0929 ■ Phone: (208)784-1258 m Fax: (208)783-0891

Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK520-SL-·001
Sample Collected: 7/19/07 9:55
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590956
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-13.4	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	13.4	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	4.33		ASA M9	8/06/07
Non~Ext Sulfur,S	0.10	%	LECO	8/06/07
Pyritic Sulfur,S	0.43	%	LECO	8/06/07
Sulfate Sulfur,S	3.49	%	LECO	8/06/07
Total Sulfur, S	4.02	%	LECO	8/06/07

Reviewed By: Kirby Gray Date 0s//(/#7
8/19/67 15:14

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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One Government Gulch • P.O. Box 929 ■ Kellogg, Idaho 83837-0929 ■ Phone: (208)784-1258 . Fax: (208)783-0891

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK550-WA-001
Sample Collected: 7/19/07 11 :15
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590957
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-0.6	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	0.6	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	4.78		ASA M9	8/06/07
Non-Ext Sulfur,S	0.01	%	LECO	8/06/07
Pyritic Sulfur,S	0.02	%	LECO	8/06/07
Sulfate Sulfur,S	0.05	%	LECO	8/06/07
Total Sulfur, S	0.08	%	LECO	8/06/07

Reviewed By: _____ Date *0^J/#/pj*
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AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. 1000019 ID: ID00*019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268

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Certificate: CO 9/1/05

CLIENT : Black & Veatch
PROJECT:
CLIENT SAMPLE ID: OK556-WA-001
Sample Collected: 7/19/07 14:10
Sample Receipt : 7/24/07
Date of Report : 8/19/07

SVL JOB: 130691
SAMPLE: 590958
Matrix: SOIL

Determination	Result	Units	Method	Analyzed
ABP	-22.2	TCaCO3/1000T	EPA600	8/06/07
Acid Generating	22.2	TCaCO3/1000T	EPA600	8/06/07
Acid Neut. Pot.	<0.3	TCaCO3/1000T	EPA600	8/06/07
pH Paste	2.35		ASA M9	8/06/07
Non-Ext Sulfur,S	0.17	%	LECO	8/06/07
Pyritic Sulfur,S	0.71	%	LECO	8/06/07
Sulfate Sulfur,S	1.54	%	LECO	8/06/07
Total Sulfur, S	2.42	%	LECO	8/06/07

Reviewed By: c?St^SfZj^4^ Date #zy/f/07
T Z> 8/19/07 15:14

AZ: AZ0538 CA: CERT NO. 2080 CO: CERT NO. ID00019 ID: ID00019 MT: CERT. 0027 NV: CERT. ID19 WA: C1268